AECOM

PCCW Global (HK) Limited

Asia-Africa-Europe-1 Cable System (AAE-1) at Cape D'Aguilar, Hong Kong

Baseline Monitoring Report

June 2017

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Version:	0	Date: 23 June 2017

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27 June 2017

Our ref: 7076341/L21941/KA/AB/VC/SK/rw

PCCW Global (HK) Limited
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Taikoo Place
Quarry Bay
Hong Kong

By Email and Fax
(no. 2440 6299)

Attention: Mr. Patrik YEU

Dear Sir

Asia-Africa-Europe-1 Cable System at Cape D'Aguilar, Hong Kong
Verification of Baseline Monitoring Report

Reference is made to the *Baseline Monitoring Report (Version 0)* dated 23 June 2017, submitted by the Environmental Team via e-mail on 23 June 2017.

We hereby verify the said Baseline Monitoring 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
For and on behalf of
SMEC Asia Limited

Vivian CHAN
Independent Environmental Checker

c.c. AECOM Mr. Y W Fung (By Fax: 2961 2649)

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EXECUTIVE SUMMARY

The baseline water quality monitoring was carried out 3 days per week for 4 weeks between 9 May 2017 and 3 June 2017 for all designated water quality monitoring locations described in the Updated EM&A Manual. The water quality parameters such as turbidity, suspended solids, dissolved oxygen, temperature and salinity were monitored either using the calibrated equipment or by laboratory analysis.

The monitoring results were presented in this report and no major pollution source and extreme weather, which might affect the results, were observed during the baseline monitoring period. The Action and Limit levels of dissolved oxygen, suspended solids and turbidity were derived based on the baseline monitoring results and the water quality assessment criteria.

1 INTRODUCTION

1.1 Background

1.1.1 The AAE-1 Cable System (the Project) will be one of the first cable systems connecting Hong Kong, Singapore, Middle East, Africa and Europe, providing an alternative low latency route between the Far East and Europe. The entire AAE-1 Cable, spanning approximately 25,000 km from Hong Kong to France. Within Hong Kong, the length of the AAE-1 Cable is approximately 27.65km, as shown in **Figure 1.1**.

1.1.2 AAE-1 is to be constructed by the AAE-1 Consortium, which includes PCCW Global (HK) Ltd (PCCWG), who is responsible for the installation of the Project within Hong Kong.

1.1.3 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-244/2016). Permission granted by EPD via an approval letter dated 2 March 2016 (Ref. EP2/H18/C/10).

1.1.4 The Project Profile recommended carrying out precautionary water quality monitoring to ensure no adverse impacts to the water quality, marine ecology and fisheries. Also, as a precautionary measure, a 250m "marine mammal exclusion zone" around the cable laying barge shall established during the cable installation works to prevent marine mammals from being adversely affected.

1.2 Purpose of Baseline Monitoring Report

1.2.1 The purpose of this report is to review the baseline conditions of water quality at the Project site, and to establish baseline levels for water quality in accordance with the Updated EM&A Manual. These levels would be used as the basis for assessing environmental impact and compliance during construction of the Project.

1.2.2 This baseline monitoring report presents the baseline monitoring requirements, methodologies and monitoring results of water quality described in the Updated EM&A Manual.

2 WATER QUALITY MONITORING

2.1 Monitoring Requirements

2.1.1 In accordance with the Updated EM&A Manual, baseline water quality levels at 15 locations should be established by conducting baseline monitoring for at least 4 weeks prior to the commencement of marine works.

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	YSI 6820
Water Temperature Meter	
Salinity Meter	
Turbiditimeter	
Water Sampler	Kahlsico Water Sampler
Echo Sounder	Eagle Cuda-168
Global Positioning System	JRC DGPS 224 Model JLR-4341 with J-NAV 500 Model NWZ4551
Current Velocity and Direction Meter	Falmouth Scientific ACM-PLUS-200

2.3 Monitoring Locations

2.3.1 In accordance with the Updated EM&A Manual, the water monitoring stations for baseline water quality monitoring is presented in **Table 2.2** and shown in **Figure 2.1**.

Table 2.2 Baseline Water Quality Monitoring Stations

Type of Station	Station	Location	Easting	Northing
Water Quality Monitoring Station	L1	Shek O Headland SSSI	844603.15	809861.64
	E1	Cape D'Aguilar Marine Reserve	844778.20	808054.89
	E2	Cape D'Aguilar Marine Reserve	845185.03	807739.10
	E3	Cape D'Aguilar Marine Reserve	845355.75	807285.37
	E4	Coral Communities at the Coast of Sung Kong	847839.10	805957.97
	E5	Coral Communities at the Coast of Waglan Island	849742.30	805816.65
	E6	Coral Communities at the Coast of Po Toi	845546.99	804968.77
	E7	Coral Communities at the Coast of Beaufort Island	844690.12	805570.31
	B1	Shek O Gazetted Bathing Beach	844039.63	809802.72
	G1	Gradient Station	847740.12	806441.12
	G2	Gradient Station	849648.03	806387.80
	G3	Gradient Station	844719.38	809049.95
	G4	Gradient Station	845294.36	806542.02
	G5	Gradient Station	846049.55	806023.13
Control Station	C1	Control Station	848340.92	803652.59

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, Temperature and Salinity	Three days per week, at mid-flood and mid-ebb tides for 4 weeks

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.
- 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 sea bed, 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^{o}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 A**.

2.6 Results and Observations

2.6.1 The baseline water quality monitoring for 15 locations were carried out 3 days per week for 4 weeks between 9 May 2017 and 3 June 2017. The baseline monitoring data and laboratory results are presented in **Appendix B and Appendix C** respectively.

2.6.2 The weather condition during the monitoring period were mainly sunny and fine and occasionally cloudy. No major pollution source and extreme weather, which might affect the results, was observed during the baseline monitoring period.

2.6.3 The baseline water quality monitoring results are summarized in **Table 2.4**.

2.6.4 The QA/QC results for laboratory analysis of suspended solids are presented in **Appendix C**

2.6.5 The measured baseline turbidity (in NTU) is plotted against the measured baseline suspended solids (in mg/L) for each sample, and the relationship between suspended solids and turbidity is shown in **Figure 2.2**.

2.6.6 The R^2 value calculated (0.0087) is <0.8, only turbidity shall be used for establishing Limit Level for silt curtain monitoring.

Table 2.4 Summary of baseline Water Quality Monitoring Results

Locations		Parameters						
		Salinity (ppt)	Dissolved Oxygen (mg/L)		Turbidity (NTU)	Suspended Solids (mg/L)	Current Velocity (cm/s)	Direction
			Surface & Middle	Bottom				
L1	Avg.	33.6	6.63	6.50	1.91	3.31	15.28	116.88
	Min.	32.2	5.67	5.27	1.40	<0.5	8.44	14.74
	Max.	36.0	7.61	7.56	3.60	13.30	29.57	319.26
E1	Avg.	33.5	6.86	6.73	1.84	3.06	16.19	139.69
	Min.	32.2	5.64	5.35	1.40	<0.5	6.95	19.07
	Max.	35.9	8.36	8.13	3.70	10.40	39.04	314.84
E2	Avg.	33.6	6.86	6.71	1.83	3.13	14.54	144.69
	Min.	32.3	5.73	5.45	1.30	<0.5	5.10	11.21
	Max.	36.0	8.38	8.24	3.70	9.60	41.65	279.03
E3	Avg.	33.6	6.86	6.72	1.87	2.92	15.09	135.00
	Min.	32.3	5.64	5.54	1.30	<0.5	4.00	13.37
	Max.	36.1	8.28	8.20	3.90	7.70	58.16	348.11
E4	Avg.	33.6	6.99	6.86	1.74	2.96	16.90	112.80
	Min.	32.4	6.32	6.16	1.20	<0.5	4.57	43.89
	Max.	36.0	8.12	7.92	3.50	7.80	74.82	253.33
E5	Avg.	33.7	6.93	6.77	1.70	3.10	17.33	117.68
	Min.	32.5	6.27	5.98	1.20	<0.5	2.25	61.08
	Max.	35.9	7.66	7.48	2.40	9.80	48.18	299.37
E6	Avg.	33.6	6.92	6.79	1.86	3.08	16.25	143.46
	Min.	32.4	5.93	5.66	1.40	<0.5	7.57	42.25
	Max.	36.1	8.05	7.89	3.10	11.50	32.96	339.75
E7	Avg.	33.6	6.89	6.79	1.88	2.66	16.70	138.14
	Min.	32.1	6.02	5.91	1.30	<0.5	7.95	10.77
	Max.	36.1	8.45	8.24	3.40	8.40	38.79	317.74
B1	Avg.	33.4	6.86	6.82	1.75	3.01	12.89	117.85
	Min.	32.3	5.99	6.03	1.40	<0.5	5.14	19.80
	Max.	35.9	9.01	8.59	2.60	10.90	25.94	286.69
G1	Avg.	33.6	7.00	6.88	1.79	2.88	17.15	108.98
	Min.	32.4	6.40	6.25	1.20	<0.5	7.70	36.64
	Max.	36.0	8.16	7.71	3.50	7.90	35.16	286.46
G2	Avg.	33.6	6.92	6.78	1.72	2.82	17.39	125.28
	Min.	32.3	5.91	6.12	1.20	<0.5	5.37	14.16
	Max.	35.9	8.22	7.52	2.60	8.30	115.39	279.03
G3	Avg.	33.6	6.78	6.64	1.83	3.01	15.68	143.50
	Min.	32.2	5.33	5.16	1.30	<0.5	7.13	40.17
	Max.	35.9	8.14	7.51	3.30	11.80	34.16	289.95
G4	Avg.	33.6	6.98	6.81	1.84	2.86	15.62	122.20
	Min.	32.3	5.99	5.93	1.30	<0.5	8.38	39.16
	Max.	36.0	8.49	7.99	2.80	10.30	29.59	304.52
G5	Avg.	33.6	6.93	6.81	1.82	3.11	17.57	118.22
	Min.	32.3	6.09	6.07	1.30	<0.5	7.59	15.27
	Max.	36.0	7.96	7.71	3.10	11.20	33.61	271.32
C1	Avg.	33.6	6.98	6.88	1.70	3.33	16.67	127.18
	Min.	32.0	6.44	6.30	1.20	<0.5	7.49	35.40
	Max.	35.9	7.67	7.41	2.60	10.10	40.63	343.85

2.7 Event and Action Levels

2.7.1 The water quality assessment criteria, namely Action and Limit levels are shown in **Table 2.5**.

Table 2.5 Derivation of Action and Limit Levels for Water Quality

Parameters	Action	Limit
DO in mg/l (Surface, Middle & Bottom)	Surface & Middle 5th percentile of baseline data for surface and middle layer Bottom 5th percentile of baseline data for bottom layer	Surface & Middle 4mg/L (5mg/L for FCZ) or 1st percentile of baseline data for surface and middle layer Bottom 2mg/L or 1st percentile of baseline data for bottom layer
SS in mg/l (depth-averaged)	95th percentile of baseline data or 20% exceedance of value at any impact station compared with corresponding data from the control station	99th percentile of baseline data, or 30% exceedance of value at any impact station compared with corresponding data from the control station
Turbidity (Tby) in NTU (depth-averaged)	95th percentile of baseline data or 20% exceedance of value at any impact station compared with corresponding data from the control station	99th percentile of baseline data, or 30% exceedance of value at any impact station compared with corresponding data from the control station

2.7.2 The derived Action and Limit levels are presented in **Table 2.6**

Table 2.6 Derived Action and Limit Levels for Water Quality

Parameters	Action	Limit
DO in mg/L	Surface & Middle: **6.26** (5th percentile of baseline data for surface and middle layer) Bottom: **6.10** (5th percentile of baseline data for bottom layer)	Surface & Middle: **4** Bottom: **2**
SS in mg/L	**7.10** (95th percentile of baseline data)	**10.10** (99th percentile of baseline data)
Turbidity in NTU	**2.60** (95th percentile of baseline data)	**3.34** (99th percentile of baseline data)

2.7.3 The Event/Action Plan is shown in **Table 2.7**. Please note that the Event / Action Plan relates only to exceedances that are directly attributable to the cable installation works over which the installation contractor has control.

Table 2.7 Event / Action Plan for Water Quality

Event	Environmental Team
Action Level Exceedance	1. Repeat sampling event. 2. Inform EPD and AFCD and confirm notification of the non-compliance in writing. 3. Discuss with cable installation contractor and the IEC the most appropriate method of reducing suspended solids during cable installation. This shall include reducing the speed of the cable installation barge, halting the burial works temporarily, applying an additional layer of silt curtain, etc. until conditions return to normal. 4. Repeat measurements after implementation of mitigation for confirmation of compliance. 5. 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	Undertake Steps 1-4 immediately, if further non-compliance continues at the Limit Level, suspend cable laying operations until an effective solution is identified.

3 CONCLUSIONS AND RECOMMENDATIONS

3.1.1 Baseline water quality monitoring was carried out between 9 May 2017 and 3 June 2017 for 15 designated locations. Action and Limit Levels were derived based on the baseline monitoring results and water quality assessment criteria.

3.1.2 No recommendation was provided in this baseline monitoring report.

FIGURES

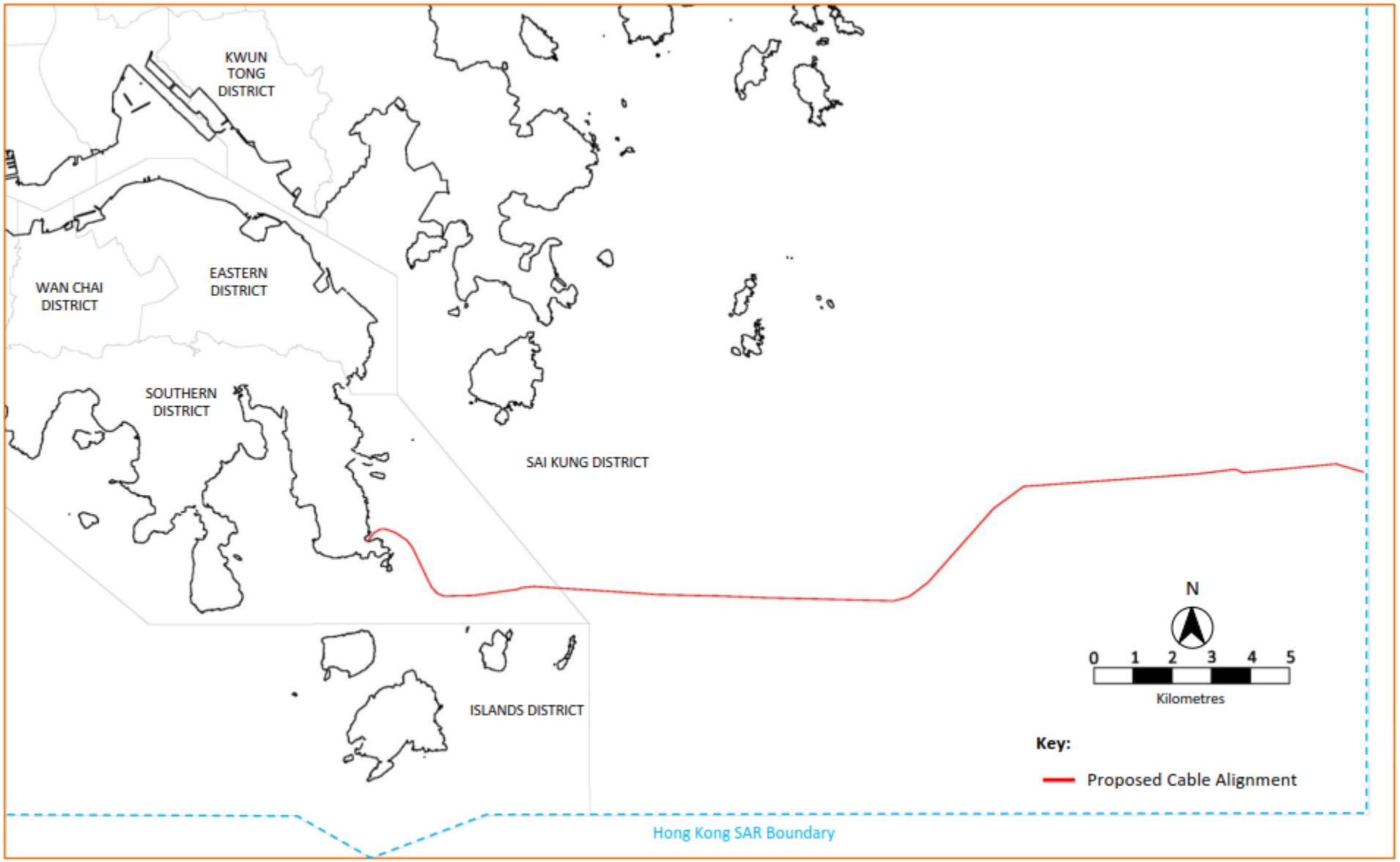

Figure 1.1 Alignment of AAE-1 Cable System within Hong Kong (Source: Figure 1.1 of Updated Environmental Monitoring and Audit Manual)

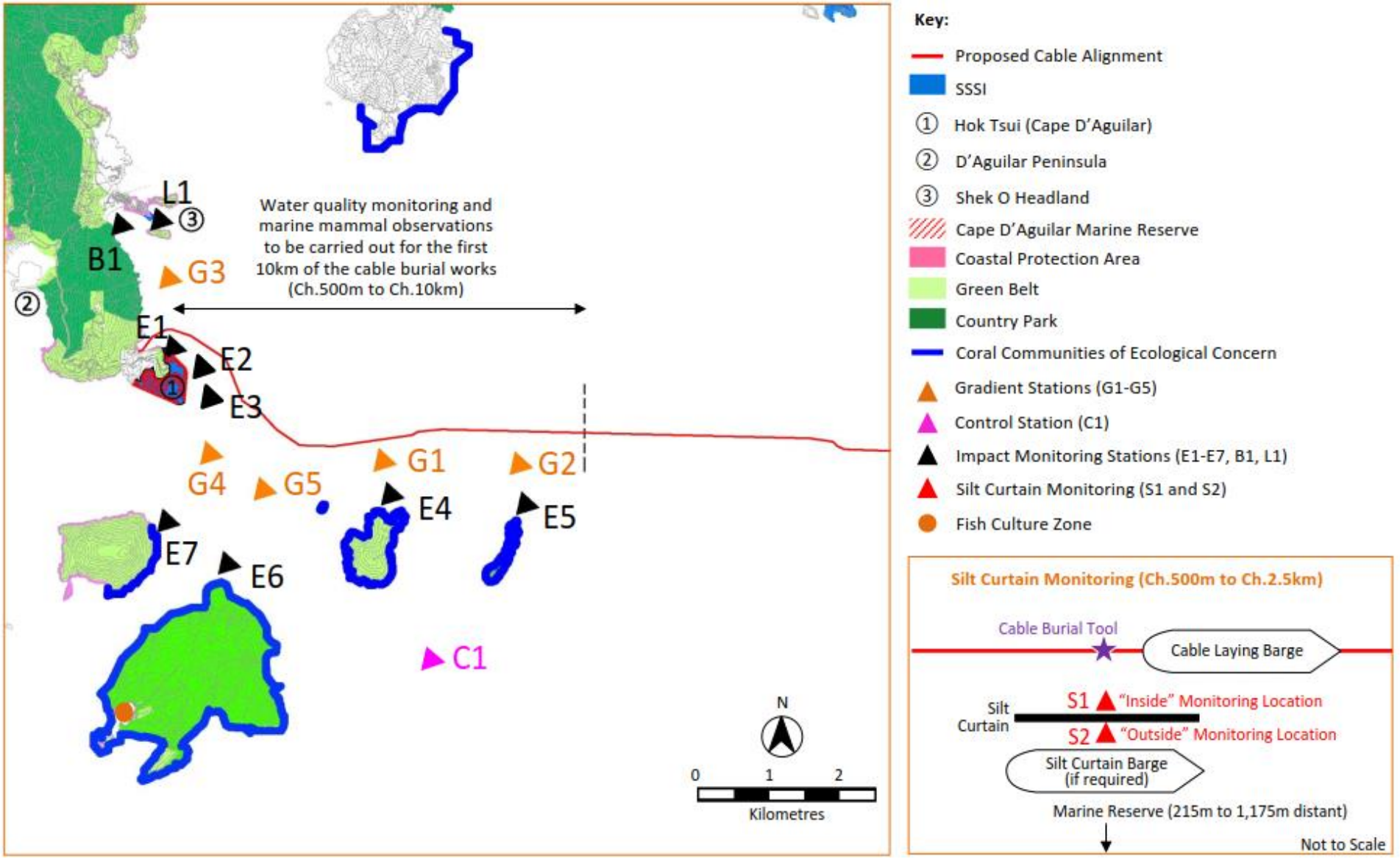

Figure 2.1 Locations of Water Quality Monitoring Station (Source: Figure 2.1 of Updated Environmental Monitoring and Audit Manual)

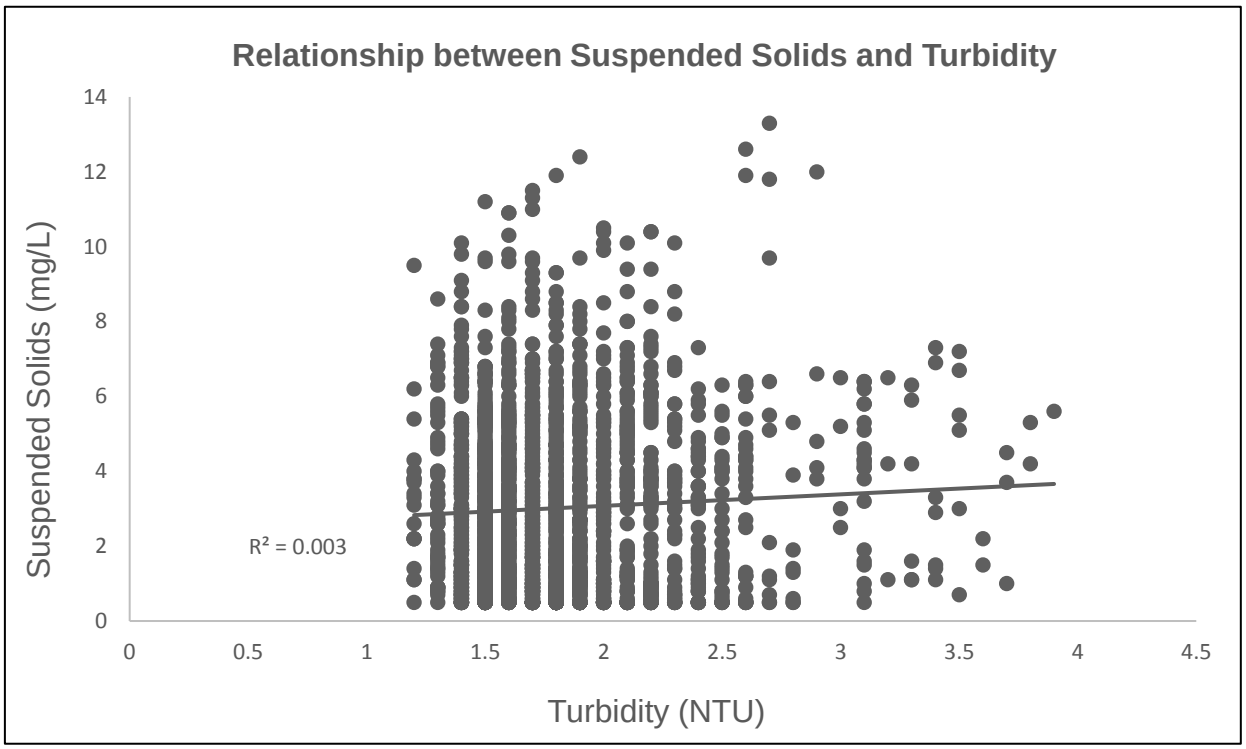

Figure 2.2
Realtionship between Suspended Solids and Turbidity

APPENDIX A
CALIBRATION CERTIFICATES OF MONITORING EQUIPMENT

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

Work Order: HK1716025
Sub-batch: 0
Client: AECOM ASIA COMPANY LIMITED
Date of Issue: 25/04/2017

Description: Multifunctional Meter
Brand Name: YSI
Model No.: 6820 V2
Serial No.: 12A101545
Equipment No.: W.026.35
Date of Calibration: 20 April, 2017 Date of next Calibration: 20 July, 2017

Parameters:

Conductivity **Method Ref: APHA (21th edition), 2510B**

Expected Reading (uS/cm)	Displayed Reading (uS/cm)	Tolerance (%)
146.9	145.0	-1.3
6667	6640	-0.4
12890	12750	-1.1
58670	58560	-0.2
	Tolerance Limit (%)	±10.0

Dissolved Oxygen **Method Ref: APHA (21st edition), 4500O: G**

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)
3.40	3.42	+0.02
5.50	5.47	-0.03
7.65	7.61	-0.04
	Tolerance Limit (mg/L)	±0.20

Temperature **Method Ref: Section 6 of International Accreditation New Zealand Technical Guide No. 3 Second edition March 2008: Working Thermometer Calibration Procedure.**

Reading of Ref. thermometer (°C)	Displayed Reading (°C)	Tolerance (°C)
10.5	10.41	-0.1
20.0	20.05	+0.1
37.5	37.52	+0.0
	Tolerance Limit (°C)	±2.0

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

Mr Chan Siu Ming, Vico
Manager - Inorganics

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

Work Order: HK1716025
Sub-Batch: 0
Client: AECOM ASIA COMPANY LIMITED
Date of Issue: 25/04/2017

Description: Multifunctional Meter
Brand Name: YSI
Model No.: 6820 V2
Serial No.: 12A101545
Equipment No.: W.026.35
Date of Calibration: 20 April, 2017 Date of next Calibration: 20 July, 2017

Parameters:

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

Expected Reading (g/L)	Displayed Reading (g/L)	Tolerance (%)
0	0.00	--
10	10.05	+0.5
20	20.07	+0.4
30	30.05	+0.2
	Tolerance Limit (%)	±10.0

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

Expected Reading (NTU)	Displayed Reading (NTU)	Tolerance (%)
0	0.0	--
4	4.1	+2.5
10	10.2	+2.0
20	20.4	+2.0
50	49.7	-0.6
100	99.6	-0.4
	Tolerance Limit (%)	±10.0

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

Expected Reading (pH Unit)	Displayed Reading (pH Unit)	Tolerance (pH unit)
4.0	4.01	+0.01
7.0	7.03	+0.03
10.0	10.02	+0.02
	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 - Inorganics

Standard Product Certificate Report

ACM S/N: 1069

1400 RT. 28A, CATAUMET, MA 02534-0315

28 April, 2017

CERTIFICATE OF COMPLIANCE

This is to certify that the subject system has been electrically and mechanically tested and inspected in compliance to applicable drawings.

Subject system was produced in accordance with Quality procedures and practices at FSI.

PART #:	DESCRIPTION:
ACM-PLUS-200	Acoustic Current Meter

- ☒ Customer Config
- ☒ Compass Calibration
- ☒ Tilt Calibration
- ☒ Velocity Calibration
- ☒ Sea Temperature Calibration
- ☒ Sea Pressure Calibration

FALMOUTH SCIENTIFIC INC.

QUALITY ASSURANCE

4/28/17
DATE

APPENDIX B
BASELINE WATER QUALITY MONITORING DATA

Water Quality Monitoring Results at L1 - Mid-Ebb Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)			Current Velocity (cm/s)			Direction		
						Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
9-May-17	Sunny	Moderate	10:41	Surface	1	25.0 24.9	24.9	33.4 33.4	33.4	98.70 101.70	100.20	6.75 6.96	6.86	6.31	2.2 2.2	2.2	2.4	3.6 3.8	3.7	3.8	11.5 12.8	12.2	17.6	93.3 97.1	95.2	85.1
				Middle	7.5	24.3 24.2	24.2	33.5 33.6	33.6	84.70 82.00	83.35	5.86 5.67	5.77		2.5 2.4	2.5		2.7 4.0	3.4		20.0 22.8	21.4		81.7 78.4	80.1	
				Bottom	13.9	23.7 23.6	23.7	34.0 34.2	34.1	78.00 83.90	80.95	5.43 5.85	5.64	5.64	2.5 2.5	2.5		4.4 4.1	4.3		19.5 19.2	19.3		77.9 81.9	79.9	
11-May-17	Sunny	Moderate	10:44	Surface	1	25.4 25.4	25.4	33.2 33.2	33.2	101.30 99.20	100.25	6.88 6.74	6.81	6.56	1.7 1.7	1.7	2.6	1.0 1.1	1.1	1.3	23.8 25.0	24.4	24.1	210.7 205.0	207.8	108.9
				Middle	9.3	24.8 24.7	24.8	33.6 33.7	33.7	92.20 91.50	91.85	6.35 6.28	6.32		2.7 2.4	2.6		2.1 1.2	1.7		25.3 27.7	26.5		64.1 64.7	64.4	
				Bottom	17.7	23.8 23.8	23.8	34.5 34.4	34.5	97.50 97.00	97.25	6.76 6.72	6.74	6.74	3.6 3.5	3.6		1.5 0.7	1.1		21.1 21.8	21.5		50.9 57.8	54.3	
13-May-17	Fine	Moderate	14:54	Surface	1	25.1 25.3	25.2	33.5 33.3	33.4	96.10 97.40	96.75	6.61 6.63	6.62	6.51	1.9 1.8	1.9	2.0	2.5 2.9	2.7	3.1	11.0 11.6	11.3	12.9	45.3 42.7	44.0	77.0
				Middle	7.5	24.4 24.4	24.4	34.2 34.2	34.2	92.90 94.10	93.50	6.34 6.46	6.40		2.2 2.0	2.1		3.3 2.8	3.1		16.8 15.2	16.0		76.8 83.8	80.3	
				Bottom	14.0	24.3 24.5	24.4	34.4 34.2	34.3	90.10 89.70	89.90	6.19 6.16	6.18	6.18	2.1 2.0	2.1		4.0 2.9	3.5		11.6 11.4	11.5		111.7 101.5	106.6	
16-May-17	Cloudy	Moderate	16:21	Surface	1	25.4 25.4	25.4	32.8 32.8	32.8	101.70 102.60	102.15	6.93 6.99	6.96	6.94	1.6 1.6	1.6	1.6	1.0 0.6	0.8	0.9	12.3 11.8	12.1	13.5	50.1 48.9	49.5	73.0
				Middle	7.5	25.3 25.3	25.3	32.9 32.9	32.9	101.20 101.80	101.50	6.90 6.94	6.92		1.6 1.6	1.6		0.6 <0.5	0.6		17.8 16.9	17.3		70.2 74.2	72.2	
				Bottom	14.0	25.3 25.3	25.3	33.0 32.9	33.0	100.70 101.00	100.85	6.87 6.89	6.88	6.88	1.6 1.6	1.6		1.0 1.4	1.2		10.5 12.0	11.2		95.3 99.1	97.2	
18-May-17	Fine	Moderate	17:55	Surface	1	25.8 25.8	25.8	32.8 32.8	32.8	112.40 112.30	112.35	7.61 7.60	7.61	7.57	1.7 1.7	1.7	1.7	6.7 5.8	6.3	6.0	13.5 13.6	13.5	12.9	70.8 73.3	72.1	78.9
				Middle	9.4	25.8 25.8	25.8	32.8 32.8	32.8	111.30 111.20	111.25	7.53 7.53	7.53		1.7 1.8	1.8		7.4 5.4	6.4		10.8 12.7	11.8		74.8 77.7	76.2	
				Bottom	17.9	25.7 25.7	25.7	32.8 32.8	32.8	111.70 111.00	111.35	7.56 7.52	7.54	7.54	1.7 1.7	1.7		4.1 6.5	5.3		12.8 14.1	13.4		86.6 90.5	88.5	
20-May-17	Cloudy	Rough	6:18	Surface	1	25.5 25.5	25.5	32.9 32.9	32.9	104.30 104.50	104.40	7.09 7.10	7.10	7.08	1.4 1.5	1.5	1.5	1.9 1.1	1.5	1.4	13.3 12.8	13.1	13.5	84.2 81.6	82.9	81.0
				Middle	7.5	25.5 25.5	25.5	32.9 32.9	32.9	103.70 104.10	103.90	7.05 7.08	7.07		1.4 1.5	1.5		0.9 1.0	1.0		15.5 16.1	15.8		69.6 66.6	68.1	
				Bottom	14.1	25.5 25.5	25.5	32.9 33.0	32.9	103.60 103.90	103.75	7.04 7.06	7.05	7.05	1.5 1.5	1.5		1.3 2.2	1.8		11.4 12.0	11.7		92.9 91.1	92.0	
23-May-17	Sunny	Rough	8:11	Surface	1	25.3 25.3	25.3	33.2 33.2	33.2	97.40 97.10	97.25	6.63 6.61	6.62	6.62	1.5 1.7	1.6	1.7	1.8 1.5	1.7	1.2	13.8 15.8	14.8	13.0	107.7 115.7	111.7	111.3
				Middle	7.6	25.4 25.4	25.4	33.4 33.5	33.4	97.30 97.60	97.45	6.60 6.62	6.61		1.5 1.6	1.6		1.6 1.1	1.4		11.0 11.5	11.2		126.9 139.7	133.3	
				Bottom	14.2	25.4 25.4	25.4	33.5 33.5	33.5	98.00 97.00	97.50	6.65 6.58	6.62	6.62	2.0 2.0	2.0		<0.5 <0.5	0.5		12.9 13.1	13.0		87.6 90.3	89.0	
25-May-17	Sunny	Rough	10:06	Surface	1	25.6 25.7	25.6	32.3 32.2	32.3	95.90 96.20	96.05	6.53 6.53	6.53	6.51	2.0 2.1	2.1	2.2	0.6 <0.5	0.6	0.5	12.3 11.9	12.1	13.8	140.3 137.8	139.0	124.5
				Middle	7.8	25.4 25.4	25.4	32.8 32.8	32.8	94.70 96.00	95.35	6.44 6.52	6.48		2.2 2.2	2.2		<0.5 <0.5	0.5		14.5 13.9	14.2		14.7 144.6	79.6	
				Bottom	14.6	25.5 25.5	25.5	33.3 33.5	33.4	94.60 95.40	95.00	6.43 6.49	6.46	6.46	2.2 2.2	2.2		<0.5 <0.5	0.5		14.8 15.2	15.0		153.2 156.2	154.7	

Remark: * DA: Depth-Averaged

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

Water Quality Monitoring Results at L1 - Mid-Ebb Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)			Current Velocity (cm/s)			Direction		
						Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
27-May-17	Sunny	Moderate	14:47	Surface	1	25.8 25.9	25.8	32.7 32.6	32.6	88.10 88.00	88.05	5.97 5.95	5.96	5.95	1.9 1.8	1.9	2.4	12.4 11.9	12.2	12.4	15.3 15.8	15.5	13.7	237.7 245.6	241.6	150.8
				Middle	7.7	25.5 25.5	25.5	33.0 33.0	33.0	87.60 87.40	87.50	5.95 5.94	5.95		2.6 2.7	2.7		12.6 13.3	13.0		11.6 11.9	11.7		95.6 103.8	99.7	
				Bottom	14.3	25.5 25.5	25.5	33.0 33.0	33.0	87.30 87.60	87.45	5.93 5.95	5.94	5.94	2.9 2.6	2.8		12.0 11.9	12.0		13.1 14.4	13.8		107.8 114.6	111.2	
30-May-17	Fine	Moderate	17:23	Surface	1	26.0 26.0	26.0	32.9 32.8	32.9	97.00 97.40	97.20	6.54 6.56	6.55	6.52	1.8 2.0	1.9	2.0	0.9 1.6	1.3	1.3	17.5 18.5	18.0	17.1	69.2 74.8	72.0	97.5
				Middle	7.7	25.8 25.8	25.8	33.2 33.2	33.2	96.20 96.40	96.30	6.49 6.50	6.50		1.9 2.0	2.0		0.9 1.0	1.0		18.8 19.2	19.0		96.2 101.3	98.8	
				Bottom	14.4	25.8 25.8	25.8	33.3 33.3	33.3	96.00 96.30	96.15	6.48 6.50	6.49	6.49	2.0 2.1	2.1		1.7 1.7	1.7		13.6 14.8	14.2		127.8 115.5	121.6	
1-Jun-17	Fine	Moderate	19:17	Surface	1	26.3 26.3	26.3	35.7 35.6	35.7	101.20 102.60	101.90	6.68 6.78	6.73	6.66	1.8 1.8	1.8	1.8	2.2 1.8	2.0	2.8	18.5 19.8	19.2	21.0	57.3 60.8	59.1	75.0
				Middle	7.5	26.0 26.0	26.0	35.8 35.9	35.8	100.40 98.40	99.40	6.66 6.52	6.59		1.9 1.8	1.9		3.8 2.6	3.4		20.6 18.5	19.6		73.9 77.2	75.6	
				Bottom	14.1	26.0 25.9	26.0	35.9 36.0	35.9	102.20 97.70	99.95	6.78 6.48	6.63	6.63	1.8 1.9	1.9		3.5 2.7	3.1		24.7 23.6	24.2		89.6 91.0	90.3	
3-Jun-17	Fine	Moderate	6:14	Surface	1	26.9 26.9	26.9	33.9 34.0	33.9	102.30 101.10	101.70	6.75 6.68	6.72	6.62	1.5 1.6	1.6	1.6	5.7 6.0	5.9	4.9	14.2 15.7	15.0	18.2	37.9 39.9	38.9	40.3
				Middle	7.5	26.4 26.4	26.4	34.8 34.8	34.8	98.50 98.60	98.55	6.53 6.53	6.53		1.8 1.7	1.8		4.6 4.0	4.3		17.0 18.1	17.5		44.2 50.2	47.2	
				Bottom	14.0	26.3 26.2	26.2	35.4 35.6	35.5	100.30 96.60	98.45	6.63 6.39	6.51	6.51	1.5 1.6	1.6		3.5 5.4	4.5		22.6 21.7	22.1		32.2 37.2	34.7	

Remark: * DA: Depth-Averaged

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

Water Quality Monitoring Results at L1 - Mid-Flood Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)			Current Velocity (cm/s)			Direction		
						Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
9-May-17	Sunny	Moderate	18:57	Surface	1	25.4 25.3	25.3	33.3 33.4	33.3	100.60 100.40	100.50	6.84 6.83	6.84	6.28	2.0 2.1	2.1	2.1	3.6 3.7	3.7	3.4	21.0 18.2	19.6	24.6	288.2 289.6	288.9	259.7
				Middle	10.3	23.5 23.6	23.6	34.4 34.3	34.3	81.30 82.80	82.05	5.67 5.77	5.72		2.2 2.2	2.2		3.6 3.3	3.5		29.6 26.7	28.2		242.9 217.3	230.1	
				Bottom	19.6	23.5 23.5	23.5	34.5 34.5	34.5	75.60 78.10	76.85	5.27 5.44	5.36	5.36	2.2 2.3	2.3		3.2 3.2	3.2		27.7 24.4	26.1		255.4 264.6	260.0	
11-May-17	Sunny	Moderate	20:08	Surface	1	25.6 25.5	25.5	33.4 33.4	33.4	105.70 100.80	103.25	7.16 6.83	7.00	6.66	1.7 1.8	1.8	1.8	2.9 2.1	2.5	1.4	22.0 24.1	23.0	21.7	72.1 73.4	72.7	67.6
				Middle	8.4	24.6 24.6	24.6	33.5 33.5	33.5	90.90 92.80	91.85	6.26 6.39	6.33		2.3 2.2	2.3		0.7 0.7	0.7		21.0 20.6	20.8		73.0 76.2	74.6	
				Bottom	15.9	24.5 24.5	24.5	33.5 33.6	33.6	97.20 92.00	94.60	6.69 6.34	6.52	6.52	2.1 2.4	2.3		1.2 0.8	1.0		20.4 22.1	21.3		55.3 55.4	55.4	
13-May-17	Cloudy	Moderate	5:01	Surface	1	24.9 25.0	25.0	33.3 33.2	33.2	87.40 87.30	87.35	6.05 5.98	6.02	5.95	2.3 2.4	2.4	2.4	2.7 3.6	3.2	3.8	17.7 16.1	16.9	13.8	125.8 117.8	121.8	137.4
				Middle	8.0	23.8 23.8	23.8	34.7 34.7	34.7	86.40 84.50	85.45	5.92 5.84	5.88		2.6 2.6	2.6		2.7 3.3	3.0		11.2 11.5	11.3		145.8 144.5	145.1	
				Bottom	15.0	23.8 24.0	23.9	34.7 34.6	34.7	83.70 80.90	82.30	5.79 5.60	5.70	5.70	2.6 2.6	2.6		5.4 4.9	5.2		13.8 12.6	13.2		144.5 145.8	145.1	
16-May-17	Cloudy	Moderate	6:21	Surface	1	25.4 25.4	25.4	32.8 32.8	32.8	99.00 98.80	98.90	6.75 6.73	6.74	6.69	1.5 1.5	1.5	1.5	<0.5 0.9	0.7	1.5	13.7 14.3	14.0	12.3	88.8 86.5	87.6	105.2
				Middle	7.5	25.3 25.3	25.3	32.9 33.1	33.0	96.80 98.50	97.65	6.59 6.70	6.65		1.5 1.6	1.6		1.4 1.4	1.4		10.3 11.0	10.7		114.5 121.0	117.8	
				Bottom	14.0	25.3 25.2	25.3	33.2 33.3	33.3	97.80 96.10	96.95	6.66 6.55	6.61	6.61	1.6 1.5	1.6		2.4 2.4	2.4		12.6 12.0	12.3		111.2 109.4	110.3	
18-May-17	Cloudy	Moderate	2:45	Surface	1	25.7 25.7	25.7	32.8 32.8	32.8	104.10 104.00	104.05	7.06 7.05	7.06	7.06	1.5 1.6	1.6	1.6	2.2 2.3	2.3	4.0	11.2 11.0	11.1	10.0	82.3 79.3	80.8	97.4
				Middle	7.5	25.6 25.6	25.6	32.8 32.8	32.8	104.00 103.90	103.95	7.06 7.05	7.06		1.5 1.6	1.6		6.8 4.7	5.8		8.4 8.9	8.7		100.6 104.8	102.7	
				Bottom	14.0	25.6 25.6	25.6	32.8 32.8	32.8	103.50 103.70	103.60	7.02 7.04	7.03	7.03	1.5 1.6	1.6		2.6 5.2	3.9		10.0 10.5	10.2		110.1 107.5	108.8	
20-May-17	Cloudy	Rough	13:43	Surface	1	25.5 25.5	25.5	32.9 32.9	32.9	105.90 105.80	105.85	7.20 7.19	7.20	7.19	1.6 1.5	1.6	1.6	3.0 3.3	3.2	4.3	14.3 13.8	14.1	12.4	102.2 99.7	101.0	105.8
				Middle	7.5	25.5 25.5	25.5	32.9 32.9	32.9	105.50 105.80	105.65	7.17 7.20	7.19		1.5 1.6	1.6		3.2 3.6	3.4		11.0 12.2	11.6		106.1 111.1	108.6	
				Bottom	14.0	25.4 25.5	25.4	32.9 32.9	32.9	105.40 105.50	105.45	7.17 7.18	7.18	7.18	1.5 1.6	1.6		5.5 7.2	6.4		11.0 12.3	11.6		110.1 105.4	107.8	
23-May-17	Fine	Rough	17:38	Surface	1	25.4 25.4	25.4	32.8 32.8	32.8	94.70 94.60	94.65	6.44 6.44	6.44	6.46	1.8 1.8	1.8	1.7	1.0 1.3	1.2	3.0	13.9 13.1	13.5	11.8	73.4 70.6	72.0	57.9
				Middle	7.8	25.4 25.4	25.4	33.1 33.2	33.2	95.10 95.50	95.30	6.47 6.50	6.49		1.6 1.5	1.6		3.5 2.6	3.1		11.2 10.9	11.1		65.6 68.2	66.9	
				Bottom	14.6	25.4 25.4	25.4	33.2 33.2	33.2	94.40 94.20	94.30	6.42 6.41	6.42	6.42	1.6 1.8	1.7		5.3 4.3	4.8		10.1 11.4	10.8		34.0 35.4	34.7	
25-May-17	Cloudy	Rough	19:22	Surface	1	25.7 25.8	25.7	32.3 32.2	32.3	95.80 95.40	95.60	6.51 6.48	6.50	6.46	1.8 1.8	1.8	1.9	1.6 1.6	1.6	1.2	10.8 11.1	10.9	10.7	50.9 49.8	50.3	49.5
				Middle	8.3	25.5 25.5	25.5	32.4 32.4	32.4	93.90 94.60	94.25	6.40 6.45	6.43		1.7 1.7	1.7		0.9 1.3	1.1		10.7 10.3	10.5		49.7 47.7	48.7	
				Bottom	15.5	25.5 25.5	25.5	33.0 33.3	33.1	94.20 93.20	93.70	6.40 6.32	6.36	6.36	2.2 2.1	2.2		0.7 1.3	1.0		10.3 10.7	10.5		49.0 50.1	49.5	

Remark: * DA: Depth-Averaged

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

Water Quality Monitoring Results at L1 - Mid-Flood Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (^{o}C)		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)			Current Velocity (cm/s)			Direction		
						Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
27-May-17	Fine	Rough	4:04	Surface	1	25.6 25.6	25.6	32.8 32.8	32.8	99.70 100.30	100.00	6.78 6.82	6.80	6.81	1.6 1.6	1.6	1.8	8.1 9.6	8.9	8.6	16.4 17.7	17.1	15.7	100.3 96.6	98.4	80.6
				Middle	7.5	25.4 25.5	25.5	32.9 32.9	32.9	99.80 100.80	100.30	6.79 6.85	6.82		1.8 1.8	1.8		8.5 8.8	8.7		17.6 16.9	17.2		86.5 81.9	84.2	
				Bottom	14.1	25.4 25.4	25.4	33.0 33.0	33.0	98.10 99.60	98.85	6.68 6.78	6.73	6.73	2.0 1.9	2.0		8.5 7.8	8.2		13.5 12.1	12.8		57.8 60.5	59.1	
30-May-17	Sunny	Moderate	6:54	Surface	1	26.0 26.0	26.0	33.2 33.2	33.2	97.00 96.80	96.90	6.53 6.51	6.52	6.45	1.6 1.7	1.7	1.8	1.0 1.4	1.2	1.2	15.7 16.5	16.1	14.4	312.7 319.3	316.0	285.3
				Middle	7.7	25.7 25.7	25.7	33.5 33.5	33.5	94.30 94.30	94.30	6.37 6.37	6.37		1.8 1.8	1.8		1.8 1.2	1.5		16.4 17.2	16.8		259.2 262.7	261.0	
				Bottom	14.4	25.7 25.7	25.7	33.6 33.5	33.5	95.00 95.60	95.30	6.41 6.45	6.43	6.43	1.8 1.9	1.9		0.8 1.0	0.9		10.9 10.0	10.4		275.9 282.2	279.1	
1-Jun-17	Sunny	Moderate	8:54	Surface	1	26.4 26.4	26.4	35.0 35.0	35.0	99.40 101.00	100.20	6.57 6.68	6.63	6.56	2.0 1.8	1.9	1.9	2.4 1.6	2.0	1.8	13.5 14.7	14.1	14.3	193.7 202.6	198.2	216.4
				Middle	7.5	26.0 26.0	26.0	35.7 35.7	35.7	98.20 97.60	97.90	6.51 6.48	6.50		1.9 2.1	2.0		1.9 0.8	3.5		15.0 14.2	14.6		208.0 215.1	211.6	
				Bottom	13.9	26.0 26.0	26.0	35.7 35.8	35.7	97.70 98.60	98.15	6.47 6.53	6.50	6.50	1.9 1.9	1.9		2.1 1.7	1.9		13.5 15.1	14.3		245.5 233.4	239.4	
3-Jun-17	Sunny	Moderate	15:07	Surface	1	26.9 26.9	26.9	33.6 33.6	33.6	102.20 102.60	102.40	6.75 6.79	6.77	6.59	1.7 1.7	1.7	1.8	4.1 6.5	5.3	6.1	13.7 14.8	14.2	13.5	236.9 221.7	229.3	239.3
				Middle	7.7	26.0 26.0	26.0	35.9 35.9	35.9	96.90 96.80	96.85	6.42 6.41	6.42		1.9 2.0	2.0		7.4 5.0	6.2		16.0 16.9	16.4		272.6 280.0	276.3	
				Bottom	14.5	26.0 26.0	26.0	36.0 35.9	35.9	100.60 99.10	99.85	6.67 6.57	6.62	6.62	1.9 1.7	1.8		8.2 5.5	6.9		9.7 10.2	9.9		210.1 214.4	212.3	

Remark: * DA: Depth-Averaged

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

Water Quality Monitoring Results at E1 - Mid-Ebb Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)			Current Velocity (cm/s)			Direction		
						Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
9-May-17	Sunny	Moderate	11:25	Surface	1	25.6 25.6	25.6	33.3 33.3	33.3	100.20 100.10	100.15	6.79 6.77	6.78	6.32	3.2 3.1	3.2	3.1	4.2 4.3	4.3	4.0	10.7 11.4	11.1	8.8	57.3 64.4	60.9	132.5
				Middle	9.0	23.6 23.6	23.6	34.3 34.3	34.3	81.00 87.00	84.00	5.64 6.06	5.85		3.1 3.1	3.1		3.8 4.1	4.0		7.1 9.4	8.2		59.5 60.1	59.8	
				Bottom	16.9	23.6 23.6	23.6	34.4 34.4	34.4	80.00 76.80	78.40	5.57 5.35	5.46	5.46	3.1 3.1	3.1		3.2 4.2	3.7		7.2 6.9	7.1		298.3 255.5	276.9	
11-May-17	Sunny	Moderate	11:23	Surface	1	25.5 25.6	25.5	33.2 33.2	33.2	98.40 95.80	97.10	6.67 6.49	6.58	6.30	1.7 1.7	1.7	2.1	0.6 1.3	1.0	1.3	39.0 39.0	39.0	35.8	94.2 92.7	93.5	92.7
				Middle	8.9	24.2 24.3	24.2	34.1 34.0	34.0	83.60 90.80	87.20	5.78 6.26	6.02		2.4 2.1	2.3		0.8 1.4	1.1		34.9 34.5	34.7		68.4 65.0	66.7	
				Bottom	16.8	24.3 24.0	24.1	34.1 34.4	34.2	98.40 87.40	92.90	6.78 6.05	6.42	6.42	2.1 2.3	2.2		1.9 1.6	1.8		32.6 34.7	33.7		122.8 112.7	117.8	
13-May-17	Fine	Moderate	14:17	Surface	1	26.0 25.8	25.9	33.5 33.5	33.5	101.80 98.00	99.90	6.84 6.68	6.76	6.73	1.8 1.8	1.8	2.1	2.2 2.9	2.6	3.8	9.6 9.0	9.3	10.3	105.4 113.1	109.3	108.5
				Middle	9.1	24.2 24.4	24.3	34.5 34.2	34.4	97.10 98.90	98.00	6.60 6.79	6.70		2.3 2.1	2.2		2.3 3.6	3.0		10.3 11.2	10.8		103.9 110.2	107.0	
				Bottom	17.2	24.3 24.5	24.4	34.4 34.2	34.3	90.70 92.10	91.40	6.25 6.33	6.29	6.29	2.3 2.2	2.3		5.2 6.6	5.9		11.1 10.5	10.8		102.7 115.5	109.1	
16-May-17	Cloudy	Moderate	15:47	Surface	1	25.5 25.5	25.5	32.8 32.8	32.8	109.10 108.90	109.00	7.42 7.40	7.41	7.40	1.4 1.5	1.5	1.5	1.4 0.9	1.2	1.8	14.4 16.2	15.3	15.7	124.0 119.9	122.0	113.4
				Middle	9.3	25.5 25.5	25.5	32.8 32.8	32.8	109.00 108.50	108.75	7.41 7.38	7.40		1.5 1.5	1.5		1.0 1.1	1.1		15.9 19.4	17.7		103.7 110.7	107.2	
				Bottom	17.5	25.5 25.5	25.5	32.8 32.8	32.8	108.60 108.50	108.55	7.38 7.38	7.38	7.38	1.5 1.5	1.5		2.5 3.8	3.2		14.6 13.8	14.2		112.1 110.2	111.2	
18-May-17	Fine	Moderate	17:15	Surface	1	25.8 25.8	25.8	32.8 32.8	32.8	111.70 111.60	111.65	7.56 7.55	7.56	7.53	1.8 1.7	1.8	1.7	6.4 5.3	5.9	4.0	13.2 11.9	12.5	10.2	145.7 153.6	149.6	143.7
				Middle	8.8	25.8 25.7	25.7	32.8 32.8	32.8	110.70 110.70	110.70	7.49 7.50	7.50		1.7 1.7	1.7		2.3 3.5	2.9		10.6 9.6	10.1		173.1 160.2	166.6	
				Bottom	16.5	25.7 25.7	25.7	32.8 32.8	32.8	110.80 110.90	110.85	7.50 7.51	7.51	7.51	1.7 1.8	1.8		2.9 3.3	3.1		7.8 8.1	7.9		109.2 120.6	114.9	
20-May-17	Cloudy	Rough	6:58	Surface	1	25.5 25.5	25.5	32.9 32.9	32.9	105.00 105.00	105.00	7.13 7.14	7.14	7.12	1.4 1.4	1.4	1.5	3.6 4.1	3.9	3.4	15.7 16.3	16.0	16.3	88.8 90.4	89.6	97.5
				Middle	9.3	25.5 25.5	25.5	32.9 32.9	32.9	104.20 104.70	104.45	7.08 7.12	7.10		1.5 1.5	1.5		3.6 3.3	3.5		17.2 19.4	18.3		99.8 92.6	96.2	
				Bottom	17.5	25.4 25.4	25.4	32.9 32.9	32.9	103.60 103.80	103.70	7.05 7.06	7.06	7.06	1.5 1.6	1.6		2.3 3.5	2.9		13.8 15.0	14.4		103.1 110.2	106.6	
23-May-17	Sunny	Rough	8:52	Surface	1	25.3 25.4	25.3	33.1 33.2	33.2	97.80 97.80	97.80	6.66 6.65	6.66	6.63	1.4 1.5	1.5	1.5	1.5 1.7	1.6	2.2	17.7 15.5	16.6	14.9	89.6 106.6	98.1	115.8
				Middle	9.2	25.4 25.4	25.4	33.5 33.5	33.5	97.50 97.30	97.40	6.61 6.60	6.61		1.5 1.5	1.5		1.9 1.5	1.7		16.1 14.2	15.2		113.7 120.7	117.2	
				Bottom	17.4	25.4 25.4	25.4	33.5 33.6	33.6	97.40 97.00	97.20	6.61 6.58	6.60	6.60	1.5 1.7	1.6		2.8 3.6	3.2		12.3 13.4	12.8		129.5 134.7	132.1	
25-May-17	Sunny	Rough	10:39	Surface	1	25.8 25.8	25.8	32.3 32.4	32.4	96.50 96.50	96.50	6.54 6.54	6.54	6.51	2.2 2.3	2.3	2.4	<0.5 <0.5	0.5	0.9	12.3 12.0	12.1	13.8	122.3 128.4	125.4	130.4
				Middle	8.8	25.5 25.6	25.6	33.1 32.9	33.0	96.30 95.00	95.65	6.53 6.44	6.49		2.3 2.5	2.4		<0.5 <0.5	0.5		13.7 12.9	13.3		126.0 124.5	125.2	
				Bottom	16.6	25.5 25.5	25.5	33.2 33.3	33.3	94.60 95.10	94.85	6.42 6.45	6.44	6.44	2.5 2.3	2.4		1.7 1.4	1.6		15.7 16.0	15.9		140.8 140.4	140.6	

Remark: * DA: Depth-Averaged

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

Water Quality Monitoring Results at E1 - Mid-Ebb Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)			Current Velocity (cm/s)			Direction		
						Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
27-May-17	Sunny	Moderate	14:05	Surface	1	25.9 25.9	25.9	32.6 32.6	32.6	91.80 92.20	92.00	6.21 6.24	6.23	6.23	2.1 2.1	2.1	2.1	8.0 6.4	7.2	9.2	11.9 11.2	11.6	12.7	121.5 130.8	126.2	121.4
				Middle	9.4	25.7 25.8	25.7	32.7 32.7	32.7	92.40 91.70	92.05	6.27 6.21	6.24		2.0 2.0	2.0		9.9 10.4	10.2		11.7 10.9	11.3		89.5 93.4	91.5	
				Bottom	17.7	25.6 25.7	25.7	32.8 32.7	32.7	92.20 91.50	91.85	6.26 6.20	6.23		2.0 2.1	2.1		10.1 10.1	10.1		14.9 15.8	15.4		142.6 150.6	146.6	
30-May-17	Fine	Moderate	16:46	Surface	1	26.0 26.0	26.0	32.8 32.9	32.8	97.70 97.80	97.75	6.59 6.59	6.59	6.58	1.9 1.7	1.8	1.8	1.4 1.0	1.2	0.9	21.2 20.9	21.0	20.8	85.7 91.5	88.6	99.9
				Middle	9.3	25.9 25.9	25.9	32.9 32.9	32.9	97.30 97.40	97.35	6.56 6.57	6.57		1.8 1.8	1.8		1.6 <0.5	1.1		24.4 22.6	23.5		103.3 113.5	108.4	
				Bottom	17.6	25.8 25.9	25.8	33.1 33.1	33.1	97.60 97.10	97.35	6.59 6.55	6.57	6.57	1.8 1.8	1.8		<0.5 <0.5	0.5		18.2 17.3	17.7		108.6 96.6	102.6	
1-Jun-17	Fine	Moderate	18:44	Surface	1	26.3 26.3	26.3	35.6 35.6	35.6	103.70 102.40	103.05	6.85 6.76	6.81	6.74	1.8 1.8	1.8	1.8	1.5 0.9	1.2	1.4	20.5 17.3	18.9	18.1	109.2 113.5	111.4	109.0
				Middle	9.2	26.2 26.2	26.2	35.7 35.7	35.7	100.20 101.80	101.00	6.63 6.73	6.68		1.8 1.8	1.8		0.8 1.2	4.0		16.9 14.8	15.9		116.6 120.0	118.3	
				Bottom	17.4	26.0 26.0	26.0	35.8 35.8	35.8	98.70 100.30	99.50	6.54 6.65	6.60	6.60	1.8 1.8	1.8		1.5 2.5	2.0		19.0 20.2	19.6		96.3 98.6	97.4	
3-Jun-17	Fine	Moderate	6:55	Surface	1	26.9 26.9	26.9	33.9 33.9	33.9	103.60 105.00	104.30	6.84 6.93	6.89	6.75	1.8 1.7	1.8	1.6	5.1 2.7	3.9	4.9	20.2 22.1	21.2	19.9	90.0 84.2	87.1	72.5
				Middle	9.3	26.5 26.4	26.4	34.5 34.6	34.5	99.90 99.60	99.75	6.62 6.60	6.61		1.6 1.6	1.6		4.8 3.2	4.0		21.8 22.6	22.2		70.9 74.4	72.6	
				Bottom	17.6	26.2 26.3	26.3	35.4 35.1	35.3	100.10 101.70	100.90	6.63 6.73	6.68	6.68	1.4 1.6	1.5		7.0 6.4	6.7		15.9 16.6	16.3		55.6 60.0	57.8	

Remark: * DA: Depth-Averaged

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

Water Quality Monitoring Results at E1 - Mid-Flood Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (^{o}C)		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)			Current Velocity (cm/s)			Direction		
						Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
9-May-17	Sunny	Moderate	18:29	Surface	1	25.2 25.0	25.1	33.3 33.2	33.3	121.70 119.50	120.60	8.30 8.20	8.25	8.20	1.8 1.8	1.8	1.9	4.3 4.7	4.5	5.4	11.6 10.9	11.2	12.9	138.9 135.2	137.0	156.0
				Middle	11.4	24.8 24.8	24.8	33.2 33.2	33.2	118.50 119.50	119.00	8.11 8.20	8.16		1.8 1.9	1.9		4.7 6.3	5.5		15.2 16.1	15.7		139.5 135.8	137.6	
				Bottom	21.7	24.8 24.5	24.6	33.3 33.5	33.4	114.20 105.50	109.85	7.85 7.27	7.56	7.56	1.9 1.9	1.9		7.4 4.8	6.1		11.2 12.6	11.9		193.7 192.7	193.2	
11-May-17	Sunny	Moderate	19:32	Surface	1	26.0 26.1	26.1	33.4 33.4	33.4	124.40 122.60	123.50	8.36 8.23	8.30	8.21	1.5 1.5	1.5	1.4	0.5 <0.5	0.5	1.2	12.0 12.9	12.5	21.9	53.9 56.2	55.1	62.6
				Middle	9.3	25.8 25.8	25.8	33.4 33.4	33.4	118.80 122.20	120.50	8.02 8.24	8.13		1.4 1.4	1.4		1.6 2.2	1.9		25.7 23.9	24.8		65.6 67.8	66.7	
				Bottom	17.6	25.7 25.8	25.7	33.4 33.4	33.4	114.90 120.50	117.70	7.76 8.13	7.95	7.95	1.4 1.4	1.4		1.1 1.2	1.2		28.0 28.8	28.4		66.2 65.8	66.0	
13-May-17	Cloudy	Moderate	5:41	Surface	1	24.8 24.9	24.8	33.6 33.5	33.5	86.10 88.90	87.50	5.98 6.08	6.03	5.97	2.5 2.3	2.4	3.2	3.4 4.0	3.7	4.5	14.9 13.1	14.0	13.8	304.9 296.0	300.5	302.7
				Middle	9.4	23.9 24.0	23.9	34.7 34.6	34.7	85.30 85.70	85.50	5.90 5.93	5.92		3.7 3.5	3.6		3.7 3.0	3.4		15.4 15.1	15.2		314.8 311.8	313.3	
				Bottom	17.7	23.8 23.9	23.9	34.8 34.7	34.7	83.00 83.50	83.25	5.73 5.77	5.75	5.75	3.5 3.4	3.5		5.5 7.3	6.4		11.5 12.8	12.1		301.6 286.8	294.2	
16-May-17	Cloudy	Moderate	7:00	Surface	1	25.4 25.4	25.4	32.9 32.9	32.9	102.50 102.80	102.65	6.98 7.00	6.99	6.95	1.5 1.5	1.5	1.5	0.9 1.6	1.3	1.5	16.0 14.9	15.4	15.5	292.9 288.2	290.6	292.7
				Middle	9.3	25.4 25.4	25.4	32.9 32.9	32.9	101.30 101.60	101.45	6.90 6.93	6.92		1.6 1.5	1.6		1.9 1.7	1.8		16.8 16.7	16.7		301.0 298.8	299.9	
				Bottom	17.6	25.0 25.1	25.1	33.5 33.4	33.4	101.10 101.40	101.25	6.90 6.91	6.91	6.91	1.6 1.5	1.6		1.1 1.8	1.5		13.3 15.0	14.2		285.3 290.0	287.6	
18-May-17	Cloudy	Moderate	3:26	Surface	1	25.7 25.7	25.7	32.8 32.8	32.8	106.50 106.70	106.60	7.22 7.24	7.23	7.22	1.5 1.4	1.5	1.5	4.2 2.5	3.4	3.2	11.3 10.3	10.8	11.1	245.3 248.3	246.8	242.0
				Middle	9.0	25.7 25.7	25.7	32.8 32.8	32.8	106.40 106.10	106.25	7.21 7.20	7.21		1.4 1.5	1.5		4.4 4.8	4.6		12.1 11.5	11.8		224.2 220.2	222.2	
				Bottom	17.0	25.7 25.7	25.7	32.8 32.8	32.8	105.60 106.30	105.95	7.16 7.21	7.19	7.19	1.5 1.5	1.5		2.1 1.4	1.8		10.3 10.9	10.6		254.1 260.1	257.1	
20-May-17	Cloudy	Rough	13:07	Surface	1	25.5 25.5	25.5	32.9 32.9	32.9	105.80 105.50	105.65	7.20 7.17	7.19	7.18	1.4 1.5	1.5	1.5	2.9 1.8	2.4	3.0	12.4 14.0	13.2	14.0	221.2 235.0	228.1	230.5
				Middle	9.2	25.5 25.5	25.5	32.9 32.9	32.9	105.20 105.70	105.45	7.15 7.19	7.17		1.5 1.4	1.5		2.2 4.4	3.3		14.1 15.0	14.6		210.4 209.6	210.0	
				Bottom	17.4	25.5 25.4	25.4	32.9 32.9	32.9	105.50 105.10	105.30	7.17 7.15	7.16	7.16	1.4 1.5	1.5		2.5 4.3	3.4		13.4 15.1	14.2		251.3 255.8	253.5	
23-May-17	Fine	Rough	16:57	Surface	1	25.4 25.4	25.4	32.8 32.8	32.8	97.90 98.20	98.05	6.67 6.70	6.69	6.69	1.6 1.7	1.7	1.5	2.3 3.0	2.7	3.1	15.0 13.7	14.4	12.9	48.8 50.6	49.7	51.5
				Middle	9.3	25.4 25.4	25.4	33.3 33.3	33.3	98.50 98.60	98.55	6.69 6.70	6.70		1.4 1.4	1.4		3.9 2.1	3.0		13.7 13.7	13.7		57.1 53.2	55.1	
				Bottom	17.5	25.4 25.4	25.4	33.3 33.4	33.4	98.00 98.30	98.15	6.66 6.67	6.67	6.67	1.5 1.4	1.5		4.5 3.0	3.8		10.8 10.7	10.7		50.9 48.3	49.6	
25-May-17	Cloudy	Rough	18:46	Surface	1	25.7 25.8	25.8	32.3 32.2	32.2	95.30 95.30	95.30	6.48 6.47	6.48	6.43	1.8 1.8	1.8	1.9	<0.5 <0.5	0.5	0.7	10.5 11.1	10.8	13.9	25.9 24.8	25.3	23.6
				Middle	9.0	25.5 25.5	25.5	32.9 32.9	32.9	94.20 94.20	94.20	6.39 6.39	6.39		1.9 1.8	1.9		0.8 0.6	0.7		16.5 16.0	16.2		26.8 25.5	26.2	
				Bottom	17.1	25.6 25.6	25.6	33.1 33.0	33.1	94.00 94.00	94.00	6.38 6.39	6.39	6.39	1.9 1.9	1.9		1.0 <0.5	0.8		14.5 14.7	14.6		19.5 19.1	19.3	

Remark: * DA: Depth-Averaged

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

Water Quality Monitoring Results at E1 - Mid-Flood Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)			Current Velocity (cm/s)			Direction		
						Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
27-May-17	Fine	Rough	4:44	Surface	1	25.6 25.6	25.6	32.8 32.8	32.8	98.40 98.20	98.30	6.68 6.67	6.68	6.72	1.8 1.9	1.9	1.8	5.9 5.2	5.6	7.0	19.2 18.2	18.7	16.5	68.2 65.9	67.0	75.7
				Middle	9.3	25.4 25.4	25.4	33.0 33.0	33.0	99.90 98.90	99.40	6.80 6.73	6.77		1.7 1.6	1.7		7.0 8.4	7.7		16.6 17.1	16.9		73.4 76.0	74.7	
				Bottom	17.7	25.4 25.4	25.4	33.1 33.0	33.0	99.60 98.30	98.95	6.77 6.68	6.73	6.73	1.8 1.9	1.9		8.2 7.4	7.8		13.8 14.2	14.0		84.5 86.2	85.3	
30-May-17	Sunny	Moderate	7:35	Surface	1	25.9 25.9	25.9	33.3 33.3	33.3	99.20 99.40	99.30	6.68 6.70	6.69	6.65	1.5 1.5	1.5	1.5	1.2 <0.5	0.9	0.9	14.9 15.7	15.3	16.7	153.5 160.7	157.1	151.1
				Middle	9.4	25.8 25.8	25.8	33.4 33.4	33.4	97.90 97.90	97.90	6.60 6.60	6.60		1.4 1.6	1.5		0.6 1.1	0.9		16.2 17.0	16.6		125.3 113.8	119.6	
				Bottom	17.9	25.8 25.8	25.8	33.5 33.5	33.5	98.10 97.70	97.90	6.62 6.59	6.61	6.61	1.5 1.5	1.5		1.2 1.0	1.1		17.8 18.4	18.1		172.8 180.5	176.6	
1-Jun-17	Sunny	Moderate	9:30	Surface	1	26.4 26.4	26.4	35.0 35.0	35.0	101.50 100.70	101.10	6.71 6.66	6.69	6.64	1.9 1.8	1.9	1.9	0.6 <0.5	0.6	1.5	20.7 18.8	19.8	21.0	257.7 266.6	262.1	222.2
				Middle	9.4	26.0 26.0	26.0	35.7 35.7	35.7	99.10 99.60	99.35	6.57 6.60	6.59		1.9 1.9	1.9		2.1 3.1	5.5		23.0 21.7	22.3		220.1 213.4	216.7	
				Bottom	17.8	26.0 26.0	26.0	35.7 35.8	35.7	99.70 99.40	99.55	6.61 6.59	6.60	6.60	1.9 1.9	1.9		1.7 1.2	1.5		20.5 21.2	20.9		183.3 192.2	187.8	
3-Jun-17	Sunny	Moderate	14:26	Surface	1	26.9 26.9	26.9	33.6 33.5	33.6	105.80 106.60	106.20	6.99 7.05	7.02	6.87	1.5 1.6	1.6	1.6	2.8 2.4	2.6	3.8	18.5 20.2	19.3	21.4	185.9 190.3	188.1	204.6
				Middle	9.2	26.3 26.3	26.3	34.9 35.0	35.0	101.20 101.80	101.50	6.71 6.74	6.73		1.6 1.5	1.6		6.6 3.2	4.9		21.4 22.3	21.9		200.9 203.3	202.1	
				Bottom	17.4	26.0 26.1	26.1	35.9 35.8	35.9	103.70 103.40	103.55	6.87 6.84	6.86	6.86	1.6 1.8	1.7		5.1 2.9	4.0		24.1 21.9	23.0		220.7 226.5	223.6	

Remark: * DA: Depth-Averaged

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

Water Quality Monitoring Results at E2 - Mid-Ebb Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)			Current Velocity (cm/s)			Direction		
						Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
9-May-17	Sunny	Moderate	11:37	Surface	1	25.5 25.6	25.5	33.3 33.3	33.3	103.30 102.30	102.80	7.01 6.93	6.97	6.39	2.2 2.1	2.2	2.1	2.7 4.3	3.5	4.5	12.8 13.0	12.9	15.5	91.0 90.2	90.6	74.4
				Middle	16.4	23.6 23.7	23.6	34.5 34.5	34.5	84.30 82.40	83.35	5.87 5.73	5.80		2.1 2.1	2.1		4.3 4.5	4.4		21.5 20.8	21.1		58.3 58.5	58.4	
				Bottom	31.7	23.6 23.6	23.6	34.5 34.5	34.5	78.40 82.30	80.35	5.45 5.73	5.59	5.59	2.1 2.2	2.2		5.2 6.1	5.7		11.4 13.5	12.4		73.8 74.7	74.3	
11-May-17	Sunny	Moderate	11:32	Surface	1	25.5 25.5	25.5	33.2 33.2	33.2	100.80 103.50	102.15	6.84 7.02	6.93	6.38	1.8 1.7	1.8	2.9	3.1 2.0	2.6	1.9	24.0 23.5	23.7	25.9	110.9 103.5	107.2	82.9
				Middle	15.7	24.0 24.0	24.0	34.5 34.5	34.5	83.40 85.30	84.35	5.76 5.89	5.83		3.4 3.4	3.4		1.4 1.5	1.5		23.6 24.0	23.8		76.7 76.0	76.3	
				Bottom	30.3	24.0 23.9	23.9	34.6 34.6	34.6	92.20 88.40	90.30	6.37 6.11	6.24	6.24	3.6 3.7	3.7		2.2 1.0	1.6		30.4 29.9	30.2		62.6 67.7	65.1	
13-May-17	Fine	Moderate	14:05	Surface	1	25.9 25.7	25.8	33.5 33.6	33.6	98.20 96.10	97.15	6.68 6.58	6.63	6.59	1.9 1.8	1.9	2.2	3.8 3.6	3.7	4.3	9.9 9.7	9.8	13.5	170.5 166.5	168.5	162.7
				Middle	15.8	24.1 24.1	24.1	34.6 34.6	34.6	95.50 95.90	95.70	6.48 6.60	6.54		2.3 2.4	2.4		3.7 2.5	3.1		10.5 12.0	11.3		166.2 157.8	162.0	
				Bottom	30.5	24.2 24.2	24.2	34.5 34.5	34.5	89.00 87.80	88.40	6.14 6.06	6.10	6.10	2.3 2.3	2.3		6.8 5.4	6.1		20.2 18.5	19.3		157.9 157.6	157.8	
16-May-17	Cloudy	Moderate	15:32	Surface	1	25.5 25.5	25.5	32.8 32.8	32.8	109.10 109.00	109.05	7.42 7.42	7.42	7.41	1.5 1.5	1.5	1.5	1.9 1.9	1.9	1.8	11.7 12.3	12.0	11.8	159.4 163.3	161.3	161.8
				Middle	16.5	25.5 25.5	25.5	32.8 32.8	32.8	108.80 108.60	108.70	7.40 7.39	7.40		1.5 1.5	1.5		0.5 0.9	0.7		10.3 10.0	10.2		170.1 166.7	168.4	
				Bottom	32.0	25.5 25.5	25.5	32.8 32.8	32.8	108.60 108.80	108.70	7.39 7.40	7.40	7.40	1.5 1.5	1.5		3.0 2.7	2.9		12.4 14.0	13.2		152.4 158.8	155.6	
18-May-17	Fine	Moderate	17:06	Surface	1	25.8 25.8	25.8	32.8 32.8	32.8	111.60 111.30	111.45	7.55 7.53	7.54	7.50	1.7 1.6	1.7	1.7	5.5 8.3	6.9	5.2	14.1 14.1	14.1	15.2	66.8 70.5	68.7	84.8
				Middle	15.6	25.7 25.7	25.7	32.8 32.8	32.8	110.20 110.10	110.15	7.47 7.46	7.47		1.7 1.7	1.7		4.7 6.7	5.7		18.9 17.8	18.3		91.0 88.1	89.5	
				Bottom	30.3	25.7 25.7	25.7	32.8 32.8	32.8	110.90 110.80	110.85	7.51 7.51	7.51	7.51	1.6 1.7	1.7		3.6 2.5	3.1		12.0 14.2	13.1		93.4 98.9	96.1	
20-May-17	Cloudy	Rough	7:11	Surface	1	25.5 25.5	25.5	32.9 32.9	32.9	104.80 105.00	104.90	7.12 7.14	7.13	7.10	1.5 1.4	1.5	1.5	2.2 3.8	3.0	2.9	12.5 11.0	11.8	10.8	86.7 92.1	89.4	94.2
				Middle	16.6	25.5 25.5	25.5	32.9 32.9	32.9	103.90 104.00	103.95	7.06 7.07	7.07		1.5 1.6	1.6		2.8 1.8	2.3		9.5 11.0	10.2		96.7 89.9	93.3	
				Bottom	32.0	25.4 25.4	25.4	32.9 32.9	32.9	103.70 103.80	103.75	7.05 7.06	7.06	7.06	1.5 1.6	1.6		2.4 4.5	3.5		10.4 10.5	10.4		102.2 97.8	100.0	
23-May-17	Sunny	Rough	9:04	Surface	1	25.5 25.5	25.5	33.3 33.3	33.3	99.60 99.70	99.65	6.76 6.77	6.77	6.73	1.3 1.3	1.3	1.4	0.9 0.8	0.9	2.2	6.9 7.1	7.0	9.3	155.7 180.3	168.0	157.7
				Middle	16.2	25.4 25.4	25.4	33.5 33.4	33.4	98.60 98.90	98.75	6.69 6.71	6.70		1.4 1.4	1.4		3.9 2.9	3.4		5.8 5.1	5.5		144.9 125.5	135.2	
				Bottom	31.7	25.4 25.4	25.4	33.5 33.4	33.5	98.90 99.10	99.00	6.71 6.73	6.72	6.72	1.4 1.5	1.5		2.8 2.1	2.5		16.4 14.3	15.3		166.8 173.3	170.0	
25-May-17	Sunny	Rough	10:47	Surface	1	25.8 25.8	25.8	32.3 32.4	32.3	96.10 95.60	95.85	6.52 6.49	6.51	6.49	2.1 2.0	2.1	2.3	<0.5 <0.5	0.5	0.5	16.7 16.5	16.6	14.1	120.5 121.1	120.8	127.7
				Middle	16.0	25.5 25.5	25.5	33.2 33.2	33.2	95.70 95.10	95.40	6.49 6.45	6.47		2.4 2.4	2.4		<0.5 <0.5	0.5		14.1 13.9	14.0		133.4 132.9	133.1	
				Bottom	31.0	25.6 25.5	25.5	33.1 33.2	33.2	94.10 93.70	93.90	6.38 6.35	6.37	6.37	2.4 2.3	2.4		<0.5 0.6	0.6		11.8 11.8	11.8		129.7 128.7	129.2	

Remark: * DA: Depth-Averaged

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

Water Quality Monitoring Results at E2 - Mid-Ebb Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)			Current Velocity (cm/s)			Direction		
						Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
27-May-17	Sunny	Moderate	13:55	Surface	1	25.9 25.9	25.9	32.6 32.6	32.6	92.50 92.40	92.45	6.26 6.25	6.26	6.27	2.0 2.0	2.0	2.0	2.9 5.3	4.1	3.9	9.8 10.8	10.3	12.2	56.7 60.1	58.4	65.4
				Middle	16.2	25.7 25.6	25.6	32.7 32.8	32.8	92.20 93.00	92.60	6.25 6.31	6.28		2.1 2.0	2.1		4.5 3.3	3.9		12.4 11.9	12.1		59.1 60.9	60.0	
				Bottom	31.4	25.6 25.6	25.6	32.8 32.8	32.8	92.20 91.60	91.90	6.26 6.22	6.24	6.24	2.0 2.0	2.0		3.2 4.2	3.7		14.0 14.4	14.2		76.2 79.4	77.8	
30-May-17	Fine	Moderate	16:37	Surface	1	26.0 26.0	26.0	32.9 32.9	32.9	97.70 97.10	97.40	6.58 6.55	6.57	6.56	1.7 1.8	1.8	1.8	<0.5 <0.5	0.5	0.5	13.6 12.6	13.1	13.6	165.6 171.8	168.7	195.3
				Middle	16.0	25.9 25.9	25.9	33.0 33.1	33.0	96.90 97.40	97.15	6.54 6.57	6.56		1.9 1.7	1.8		<0.5 <0.5	0.5		15.7 16.9	16.3		194.0 207.4	200.7	
				Bottom	31.1	26.0 25.9	25.9	33.1 33.1	33.1	97.00 97.30	97.15	6.54 6.56	6.55	6.55	1.8 1.7	1.8		<0.5 <0.5	0.5		10.9 11.7	11.3		213.4 219.5	216.5	
1-Jun-17	Fine	Moderate	18:32	Surface	1	26.4 26.4	26.4	35.6 35.6	35.6	109.30 108.30	108.80	7.21 7.14	7.18	7.05	1.9 1.9	1.9	1.9	1.1 1.8	1.5	1.6	21.4 23.5	22.5	18.9	122.5 173.6	148.0	127.0
				Middle	16.1	26.3 26.4	26.3	35.6 35.6	35.6	104.70 105.10	104.90	6.91 6.93	6.92		1.8 1.8	1.8		1.3 2.5	4.4		17.1 14.0	15.5		109.8 110.8	110.3	
				Bottom	31.1	26.0 26.0	26.0	35.9 36.0	36.0	101.60 104.80	103.20	6.73 6.94	6.84	6.84	1.9 2.0	2.0		1.2 1.6	1.4		19.9 17.8	18.8		124.5 121.0	122.7	
3-Jun-17	Fine	Moderate	7:04	Surface	1	26.8 26.8	26.8	33.9 34.0	33.9	102.70 101.10	101.90	6.79 6.68	6.74	6.68	1.7 1.9	1.8	1.8	6.6 5.0	5.8	5.7	14.4 15.6	15.0	15.2	86.6 88.8	87.7	82.8
				Middle	16.4	26.5 26.5	26.5	34.3 34.5	34.4	99.90 99.70	99.80	6.63 6.61	6.62		1.9 1.7	1.8		3.6 6.4	5.0		11.8 13.4	12.6		94.5 90.7	92.6	
				Bottom	31.6	26.3 26.3	26.3	35.0 34.9	35.0	100.60 101.30	100.95	6.66 6.71	6.69	6.69	1.7 1.8	1.8		5.5 7.2	6.4		17.7 18.1	17.9		66.2 70.0	68.1	

Remark: * DA: Depth-Averaged

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

Water Quality Monitoring Results at E2 - Mid-Flood Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (^{o}C)		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)			Current Velocity (cm/s)			Direction		
						Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
9-May-17	Sunny	Moderate	18:21	Surface	1	25.6 26.0	25.8	33.4 33.4	33.4	123.80 124.80	124.30	8.37 8.38	8.38	8.04	1.8 1.6	1.7	1.7	4.8 5.8	5.3	4.9	13.8 14.0	13.9	20.1	123.8 139.0	131.4	141.3
				Middle	15.3	24.7 24.5	24.6	33.4 33.4	33.4	113.00 110.80	111.90	7.79 7.61	7.70		1.6 1.7	1.7		4.1 5.8	5.0		24.1 26.9	25.5		149.4 138.5	144.0	
				Bottom	29.7	24.5 24.3	24.4	33.4 33.5	33.5	102.40 101.50	101.95	7.06 7.02	7.04	7.04	1.7 1.7	1.7		4.6 4.5	4.6		20.3 21.3	20.8		154.6 142.4	148.5	
11-May-17	Sunny	Moderate	19:22	Surface	1	26.1 26.1	26.1	33.4 33.4	33.4	123.80 122.70	123.25	8.31 8.23	8.27	8.19	1.5 1.4	1.5	1.5	5.4 3.0	4.2	3.1	22.0 24.7	23.3	30.4	64.9 64.9	64.9	69.4
				Middle	16.3	25.8 25.6	25.7	33.4 33.4	33.4	118.70 121.50	120.10	8.01 8.22	8.12		1.5 1.6	1.6		2.6 4.2	3.4		40.2 41.6	40.9		63.2 61.7	62.4	
				Bottom	31.7	25.6 25.5	25.6	33.4 33.4	33.4	121.80 112.40	117.10	8.24 7.62	7.93	7.93	1.6 1.6	1.6		2.3 1.0	1.7		26.3 27.6	27.0		81.3 80.2	80.8	
13-May-17	Cloudy	Moderate	5:50	Surface	1	24.9 24.7	24.8	33.3 33.6	33.5	87.00 86.70	86.85	5.95 5.95	5.95	5.94	2.6 2.7	2.7	3.0	6.3 6.4	6.4	5.5	7.5 8.4	7.9	9.7	251.1 252.1	251.6	247.3
				Middle	16.0	23.9 23.9	23.9	34.7 34.7	34.7	85.80 86.10	85.95	5.94 5.91	5.93		3.1 3.1	3.1		4.5 5.1	4.8		6.0 5.4	5.7		276.2 279.0	277.6	
				Bottom	31.1	24.0 23.9	23.9	34.7 34.8	34.7	84.10 82.80	83.45	5.82 5.72	5.77	5.77	3.1 3.1	3.1		4.6 5.8	5.2		15.9 15.2	15.5		221.1 204.0	212.6	
16-May-17	Cloudy	Moderate	7:10	Surface	1	25.4 25.4	25.4	32.9 32.9	32.9	101.10 101.30	101.20	6.90 6.89	6.90	6.86	1.6 1.5	1.6	1.6	1.7 1.7	1.7	2.4	10.5 11.1	10.8	10.2	271.1 266.8	269.0	254.2
				Middle	16.5	25.1 25.3	25.2	33.3 33.0	33.1	100.90 99.20	100.05	6.87 6.76	6.82		1.6 1.5	1.6		3.5 2.4	3.0		7.0 8.1	7.5		260.5 258.6	259.6	
				Bottom	32.0	25.2 25.0	25.1	33.3 33.5	33.4	99.20 99.20	99.20	6.76 6.78	6.77	6.77	1.6 1.7	1.7		2.7 2.1	2.4		12.6 11.9	12.2		233.2 234.7	233.9	
18-May-17	Cloudy	Moderate	3:39	Surface	1	25.7 25.7	25.7	32.8 32.8	32.8	106.80 106.80	106.80	7.24 7.24	7.24	7.23	1.4 1.5	1.5	1.5	2.3 3.8	3.1	3.9	7.8 8.1	8.0	7.7	243.6 236.8	240.2	240.2
				Middle	16.5	25.7 25.7	25.7	32.8 32.8	32.8	106.70 106.60	106.65	7.23 7.22	7.23		1.5 1.4	1.5		5.8 4.0	4.9		6.5 7.0	6.8		258.8 249.5	254.1	
				Bottom	32.0	25.7 25.7	25.7	32.8 32.8	32.8	106.50 106.40	106.45	7.22 7.22	7.22	7.22	1.5 1.4	1.5		2.7 5.0	3.9		8.1 8.4	8.3		222.7 230.1	226.4	
20-May-17	Cloudy	Rough	12:56	Surface	1	25.5 25.5	25.5	32.9 32.9	32.9	105.70 105.60	105.65	7.19 7.18	7.19	7.17	1.5 1.5	1.5	1.5	4.2 3.9	4.1	3.4	9.8 10.2	10.0	8.6	222.7 234.3	228.5	229.6
				Middle	16.5	25.5 25.5	25.5	32.9 32.9	32.9	105.30 105.20	105.25	7.16 7.16	7.16		1.5 1.5	1.5		4.5 2.6	3.6		8.7 9.1	8.9		212.8 220.0	216.4	
				Bottom	32.0	25.5 25.4	25.4	32.9 32.9	32.9	105.20 105.00	105.10	7.15 7.14	7.15	7.15	1.5 1.5	1.5		2.9 2.3	2.6		6.7 7.1	6.9		241.2 246.8	244.0	
23-May-17	Fine	Rough	16:47	Surface	1	25.4 25.4	25.4	32.7 32.8	32.8	98.40 99.00	98.70	6.71 6.75	6.73	6.74	1.8 1.7	1.8	1.7	3.8 2.1	3.0	3.0	10.7 10.7	10.7	10.6	96.6 96.9	96.7	99.0
				Middle	16.4	25.4 25.4	25.4	33.3 33.3	33.3	99.40 99.40	99.40	6.75 6.75	6.75		1.5 1.3	1.4		2.6 3.9	3.3		7.7 7.6	7.7		113.1 108.7	110.9	
				Bottom	31.9	25.4 25.4	25.4	33.3 33.3	33.3	98.00 98.20	98.10	6.65 6.67	6.66	6.66	1.8 1.9	1.9		3.6 2.2	2.9		13.7 13.3	13.5		90.8 87.6	89.2	
25-May-17	Cloudy	Rough	18:36	Surface	1	25.7 25.7	25.7	32.3 32.3	32.3	95.20 95.20	95.20	6.47 6.47	6.47	6.43	1.8 1.8	1.8	1.9	<0.5 <0.5	0.5	0.5	12.9 13.1	13.0	11.6	11.2 11.8	11.5	15.0
				Middle	16.5	25.5 25.5	25.5	32.9 32.9	32.9	94.10 94.40	94.25	6.39 6.40	6.40		1.9 1.9	1.9		<0.5 <0.5	0.5		10.1 11.1	10.6		13.9 14.2	14.0	
				Bottom	32.0	25.6 25.6	25.6	33.2 33.2	33.2	94.10 94.20	94.15	6.38 6.40	6.39	6.39	1.8 1.9	1.9		<0.5 <0.5	0.5		11.7 11.0	11.4		19.5 19.5	19.5	

Remark: * DA: Depth-Averaged

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

Water Quality Monitoring Results at E2 - Mid-Flood Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)			Current Velocity (cm/s)			Direction		
						Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
27-May-17	Fine	Rough	4:53	Surface	1	25.6 25.6	25.6	32.8 32.8	32.8	97.90 98.20	98.05	6.64 6.67	6.66	6.68	1.8 1.8	1.8	1.7	4.7 6.7	5.7	6.9	14.0 14.8	14.4	12.1	99.8 101.0	100.4	129.4
				Middle	16.3	25.4 25.4	25.4	33.0 33.0	33.0	98.30 98.70	98.50	6.68 6.72	6.70		1.6 1.5	1.6		4.6 6.8	5.7		12.9 13.2	13.1		127.5 135.2	131.4	
				Bottom	31.6	25.4 25.4	25.4	33.0 33.0	33.0	98.40 97.60	98.00	6.69 6.64	6.67	6.67	1.5 1.7	1.6		9.6 9.1	9.4		8.6 9.1	8.9		152.6 160.5	156.5	
30-May-17	Sunny	Moderate	7:44	Surface	1	26.0 26.0	26.0	33.5 33.5	33.5	100.20 100.30	100.25	6.73 6.73	6.73	6.71	1.4 1.4	1.4	1.5	0.6 0.5	0.6	0.7	11.0 11.2	11.1	12.5	223.3 215.8	219.5	249.0
				Middle	16.1	25.9 25.9	25.9	33.5 33.5	33.5	99.20 99.30	99.25	6.68 6.68	6.68		1.5 1.4	1.5		0.6 <0.5	0.6		12.5 13.1	12.8		255.6 263.2	259.4	
				Bottom	31.2	25.8 25.9	25.9	33.5 33.5	33.5	99.20 99.70	99.45	6.69 6.71	6.70	6.70	1.7 1.8	1.8		1.2 <0.5	0.9		14.5 12.9	13.7		263.3 272.8	268.1	
1-Jun-17	Sunny	Moderate	9:40	Surface	1	26.4 26.4	26.4	35.1 35.0	35.0	101.90 101.60	101.75	6.74 6.72	6.73	6.66	1.9 1.8	1.9	1.8	2.2 1.9	2.1	1.5	17.8 18.9	18.3	15.5	159.9 150.7	155.3	187.1
				Middle	16.4	26.0 26.0	26.0	35.7 35.7	35.7	99.60 99.10	99.35	6.60 6.57	6.59		1.9 1.8	1.9		1.0 0.7	5.0		15.0 15.7	15.4		197.4 200.0	198.7	
				Bottom	31.7	26.0 26.1	26.0	35.8 35.7	35.7	100.70 100.50	100.60	6.68 6.66	6.67	6.67	1.7 1.9	1.8		1.9 1.3	1.6		12.7 13.1	12.9		204.6 209.9	207.2	
3-Jun-17	Sunny	Moderate	14:17	Surface	1	27.1 27.1	27.1	33.5 33.5	33.5	109.50 108.40	108.95	7.23 7.16	7.20	6.87	1.5 1.5	1.5	1.6	5.3 3.6	4.5	4.2	31.0 28.4	29.7	24.0	176.7 181.4	179.0	194.1
				Middle	16.1	26.1 26.1	26.1	35.6 35.5	35.5	99.10 98.60	98.85	6.57 6.53	6.55		1.7 1.6	1.7		6.4 4.9	5.7		19.7 21.2	20.5		190.0 194.6	192.3	
				Bottom	31.3	26.1 26.0	26.0	35.8 35.9	35.8	104.20 102.60	103.40	6.89 6.80	6.85	6.85	1.7 1.7	1.7		2.8 2.0	2.4		23.0 20.5	21.7		208.7 213.4	211.1	

Remark: * DA: Depth-Averaged

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

Water Quality Monitoring Results at E3 - Mid-Ebb Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)			Current Velocity (cm/s)			Direction		
						Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
9-May-17	Sunny	Moderate	11:49	Surface	1	25.0 25.4	25.2	33.5 33.4	33.4	97.10 96.50	96.80	6.64 6.69	6.67	6.17	2.4 2.5	2.5	2.6	4.9 5.0	5.0	4.7	21.7 19.6	20.6	19.4	70.9 71.2	71.1	45.0
				Middle	19.1	23.7 23.7	23.7	34.5 34.5	34.5	81.20 82.20	81.70	5.64 5.70	5.67		2.6 2.6	2.6		4.1 4.4	4.3		19.2 20.5	19.9		34.6 34.2	34.4	
				Bottom	37.2	23.8 23.7	23.8	34.4 34.5	34.5	80.70 79.90	80.30	5.61 5.54	5.58	5.58	2.7 2.6	2.7		5.5 4.3	4.9		16.8 18.3	17.6		28.4 30.7	29.6	
11-May-17	Sunny	Moderate	11:42	Surface	1	25.4 25.4	25.4	33.4 33.5	33.4	101.70 103.70	102.70	6.91 7.04	6.98	6.44	2.0 1.9	2.0	2.8	4.2 2.6	3.4	1.9	33.0 35.0	34.0	42.6	72.8 71.8	72.3	58.7
				Middle	20.6	24.2 24.5	24.3	34.3 34.2	34.3	84.30 87.20	85.75	5.81 5.99	5.90		3.3 3.1	3.2		1.6 0.8	1.2		34.8 37.8	36.3		66.3 66.7	66.5	
				Bottom	40.2	24.0 24.0	24.0	34.5 34.5	34.5	87.80 88.80	88.30	6.07 6.14	6.11	6.11	3.3 3.2	3.3		1.1 1.1	1.1		58.2 56.9	57.5		37.8 37.0	37.4	
13-May-17	Fine	Moderate	13:55	Surface	1	25.8 25.8	25.8	33.4 33.4	33.4	96.90 102.00	99.45	6.61 6.88	6.75	6.65	1.8 1.7	1.8	2.1	3.0 4.4	3.7	3.8	7.1 7.9	7.5	8.4	87.8 85.2	86.5	242.7
				Middle	19.1	24.1 24.1	24.1	34.6 34.6	34.6	95.30 95.90	95.60	6.57 6.53	6.55		2.3 2.4	2.4		3.8 4.5	4.2		7.6 7.5	7.6		313.4 348.1	330.7	
				Bottom	37.3	24.2 24.2	24.2	34.5 34.5	34.5	88.50 89.80	89.15	6.10 6.19	6.15	6.15	2.2 2.3	2.3		3.1 3.9	3.5		10.1 9.9	10.0		305.8 315.7	310.8	
16-May-17	Cloudy	Moderate	15:19	Surface	1	25.5 25.5	25.5	32.7 32.7	32.7	107.80 108.50	108.15	7.33 7.38	7.36	7.33	1.6 1.5	1.6	1.6	0.9 1.5	1.2	1.4	9.4 10.3	9.8	10.7	44.4 50.5	47.5	33.9
				Middle	19.0	25.5 25.5	25.5	32.8 32.8	32.8	106.70 108.20	107.45	7.26 7.36	7.31		1.6 1.6	1.6		1.0 1.4	1.2		14.0 13.8	13.9		13.4 20.1	16.7	
				Bottom	37.1	25.5 25.5	25.5	32.8 32.8	32.8	105.10 107.90	106.50	7.15 7.34	7.25	7.25	1.6 1.6	1.6		1.7 1.8	1.8		8.8 8.1	8.5		41.2 33.8	37.5	
18-May-17	Fine	Moderate	16:57	Surface	1	25.8 25.8	25.8	32.8 32.8	32.8	112.00 111.70	111.85	7.58 7.56	7.57	7.53	1.6 1.6	1.6	1.7	2.0 2.5	2.3	2.8	17.8 18.2	18.0	17.1	88.6 87.1	87.9	62.1
				Middle	20.6	25.8 25.7	25.7	32.8 32.8	32.8	110.50 110.60	110.55	7.48 7.49	7.49		1.8 1.6	1.7		2.2 1.1	1.7		18.5 16.7	17.6		57.6 55.1	56.4	
				Bottom	40.2	25.7 25.7	25.7	32.8 32.8	32.8	110.60 110.50	110.55	7.49 7.49	7.49	7.49	1.7 1.7	1.7		5.5 3.7	4.6		16.1 15.5	15.8		43.2 40.9	42.0	
20-May-17	Cloudy	Rough	7:26	Surface	1	25.5 25.5	25.5	32.9 32.9	32.9	105.10 104.90	105.00	7.14 7.13	7.14	7.13	1.6 1.6	1.6	1.6	3.0 5.3	4.2	4.9	13.5 14.2	13.8	12.2	191.1 194.2	192.7	192.8
				Middle	19.1	25.5 25.5	25.5	32.9 32.9	32.9	104.60 104.80	104.70	7.11 7.13	7.12		1.6 1.6	1.6		5.7 3.5	4.6		11.9 10.9	11.4		196.1 188.0	192.0	
				Bottom	37.2	25.5 25.5	25.5	32.9 32.9	32.9	104.60 104.40	104.50	7.11 7.10	7.11	7.11	1.6 1.7	1.7		7.0 4.8	5.9		12.0 10.9	11.4		195.1 192.2	193.7	
23-May-17	Sunny	Rough	9:16	Surface	1	25.4 25.4	25.4	33.3 33.2	33.2	99.50 100.00	99.75	6.76 6.79	6.78	6.73	1.4 1.3	1.4	1.4	2.1 2.3	2.2	3.4	17.1 15.5	16.3	14.8	315.7 320.7	318.2	308.1
				Middle	19.1	25.4 25.4	25.4	33.5 33.5	33.5	98.50 98.50	98.50	6.68 6.68	6.68		1.4 1.4	1.4		4.1 4.2	4.2		12.2 13.6	12.9		325.4 321.4	323.4	
				Bottom	37.2	25.4 25.4	25.4	33.5 33.5	33.5	99.10 98.80	98.95	6.72 6.70	6.71	6.71	1.5 1.5	1.5		3.2 4.5	3.9		15.8 14.7	15.2		273.3 292.3	282.8	
25-May-17	Sunny	Rough	10:56	Surface	1	25.8 25.8	25.8	32.4 32.3	32.3	95.80 96.00	95.90	6.50 6.51	6.51	6.47	2.0 2.0	2.0	2.4	<0.5 <0.5	0.5	0.7	16.3 16.8	16.5	16.8	135.2 135.2	135.2	144.0
				Middle	18.7	25.6 25.5	25.5	33.1 33.1	33.1	94.80 94.70	94.75	6.43 6.42	6.43		2.6 2.6	2.6		1.3 0.9	1.1		16.9 16.8	16.9		136.1 137.1	136.6	
				Bottom	36.4	25.5 25.6	25.5	33.2 33.1	33.2	93.70 93.80	93.75	6.35 6.36	6.36	6.36	2.6 2.5	2.6		<0.5 0.6	0.6		17.1 17.2	17.1		160.2 160.1	160.2	

Remark: * DA: Depth-Averaged

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

Water Quality Monitoring Results at E3 - Mid-Ebb Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)			Current Velocity (cm/s)			Direction		
						Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
27-May-17	Sunny	Moderate	13:44	Surface	1	25.8 25.9	25.8	32.6 32.6	32.6	93.80 93.00	93.40	6.35 6.29	6.32	6.37	2.0 2.1	2.1	2.0	7.7 6.0	6.9	6.3	17.6 18.1	17.8	15.5	59.1 61.4	60.3	43.1
				Middle	18.9	25.6 25.6	25.6	32.8 32.8	32.8	95.20 93.60	94.40	6.46 6.36	6.41		1.9 2.0	2.0		5.7 5.8	5.8		16.2 15.2	15.7		54.3 55.5	54.9	
				Bottom	36.8	25.6 25.5	25.6	32.8 32.9	32.8	93.00 95.70	94.35	6.31 6.50	6.41	6.41	1.9 1.9	1.9		6.2 6.1	6.2		13.8 12.3	13.0		13.5 15.0	14.3	
30-May-17	Fine	Moderate	16:26	Surface	1	26.1 26.1	26.1	32.9 32.9	32.9	98.40 98.00	98.20	6.62 6.60	6.61	6.58	1.7 1.7	1.7	1.8	<0.5 <0.5	0.5	0.7	10.9 9.9	10.4	10.8	108.2 115.7	112.0	190.8
				Middle	18.8	25.9 25.9	25.9	33.0 33.0	33.0	97.20 97.10	97.15	6.56 6.55	6.56		1.9 1.8	1.9		0.7 <0.5	0.6		8.0 8.6	8.3		300.9 284.7	292.8	
				Bottom	36.5	26.0 26.0	26.0	33.2 33.2	33.2	98.30 98.00	98.15	6.61 6.59	6.60	6.60	1.7 1.8	1.8		0.9 0.9	0.9		12.7 14.6	13.6		165.2 169.9	167.6	
1-Jun-17	Fine	Moderate	18:23	Surface	1	26.4 26.4	26.4	35.6 35.6	35.6	108.10 107.80	107.95	7.13 7.11	7.12	6.91	1.8 1.8	1.8	2.0	2.4 1.2	1.8	1.1	23.4 21.1	22.3	17.1	85.7 90.6	88.2	88.2
				Middle	18.6	26.1 26.1	26.1	35.8 35.8	35.8	100.90 101.40	101.15	6.68 6.71	6.70		2.0 2.0	2.0		0.5 0.8	4.3		14.9 15.7	15.3		74.3 69.6	72.0	
				Bottom	36.2	26.0 26.0	26.0	36.1 36.1	36.1	102.50 102.90	102.70	6.78 6.81	6.80	6.80	2.1 2.1	2.1		1.2 0.5	0.9		12.6 14.9	13.7		100.4 108.5	104.4	
3-Jun-17	Fine	Moderate	7:14	Surface	1	26.8 26.8	26.8	33.9 33.8	33.8	102.90 102.30	102.60	6.80 6.77	6.79	6.68	1.5 1.6	1.6	1.6	4.7 7.2	6.0	4.5	20.6 21.4	21.0	21.6	100.2 112.1	106.2	88.5
				Middle	19.1	26.4 26.4	26.4	34.5 34.6	34.5	98.30 99.60	98.95	6.52 6.61	6.57		1.7 1.7	1.7		4.0 3.9	4.0		23.4 24.2	23.8		86.5 79.6	83.0	
				Bottom	37.1	26.2 26.2	26.2	35.4 35.4	35.4	97.70 99.50	98.60	6.47 6.59	6.53	6.53	1.6 1.5	1.6		4.2 3.1	3.7		19.6 20.2	19.9		74.0 78.5	76.3	

Remark: * DA: Depth-Averaged

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

Water Quality Monitoring Results at E3 - Mid-Flood Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)			Current Velocity (cm/s)			Direction		
						Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
9-May-17	Sunny	Moderate	18:09	Surface	1	25.4 25.8	25.6	33.4 33.3	33.3	121.70 122.20	121.95	8.25 8.25	8.25	7.80	1.7 1.7	1.7	1.8	3.4 2.6	3.0	5.0	11.6 10.1	10.8	10.8	48.3 49.8	49.1	61.9
				Middle	19.5	24.4 24.5	24.4	33.5 33.5	33.5	102.70 109.80	106.25	7.11 7.59	7.35		1.9 1.8	1.9		4.6 7.2	5.9		10.2 11.8	11.0		30.4 29.9	30.1	
				Bottom	38.1	24.3 24.3	24.3	33.6 33.5	33.6	106.10 100.20	103.15	7.31 6.92	7.12	7.12	1.9 1.9	1.9		6.8 5.1	6.0		10.3 10.7	10.5		104.0 109.1	106.5	
11-May-17	Sunny	Moderate	19:14	Surface	1	26.0 26.0	26.0	33.4 33.4	33.4	123.30 121.50	122.40	8.28 8.16	8.22	8.14	1.5 1.6	1.6	1.6	<0.5 <0.5	0.5	0.6	13.6 11.5	12.5	16.4	72.9 76.2	74.6	57.3
				Middle	20.5	25.6 25.6	25.6	33.3 33.3	33.3	117.60 120.40	119.00	7.96 8.15	8.06		1.6 1.6	1.6		<0.5 <0.5	0.5		21.7 21.8	21.8		60.4 63.8	62.1	
				Bottom	40.1	25.6 25.6	25.6	33.3 33.4	33.4	121.10 114.80	117.95	8.20 7.77	7.99	7.99	1.7 1.7	1.7		0.9 0.5	0.7		13.5 16.4	15.0		37.7 32.8	35.2	
13-May-17	Cloudy	Moderate	6:00	Surface	1	25.0 25.0	25.0	33.3 33.2	33.3	89.40 88.60	89.00	6.18 6.06	6.12	6.06	2.6 2.4	2.5	3.4	4.7 4.0	4.4	4.7	9.4 9.9	9.7	6.8	214.5 209.5	212.0	213.8
				Middle	19.0	23.9 23.9	23.9	34.7 34.8	34.8	85.50 88.90	87.20	5.91 6.09	6.00		3.9 3.8	3.9		5.6 5.3	5.5		4.4 4.0	4.2		214.3 201.3	207.8	
				Bottom	36.9	23.9 23.9	23.9	34.7 34.7	34.7	82.90 85.60	84.25	5.73 5.92	5.83	5.83	3.7 3.8	3.8		4.5 4.2	4.4		6.8 6.3	6.5		217.0 226.2	221.6	
16-May-17	Cloudy	Moderate	7:24	Surface	1	25.5 25.5	25.5	32.6 32.6	32.6	104.30 105.50	104.90	7.10 7.18	7.14	7.09	1.5 1.5	1.5	1.5	1.5 1.5	1.5	2.0	9.4 10.1	9.8	9.0	210.4 207.9	209.1	211.5
				Middle	19.0	25.4 25.4	25.4	32.9 32.8	32.8	102.40 104.00	103.20	6.98 7.08	7.03		1.6 1.5	1.6		1.9 1.2	1.6		7.9 8.6	8.3		221.1 218.8	220.0	
				Bottom	37.0	25.4 25.4	25.4	32.9 32.8	32.9	102.10 103.60	102.85	6.95 7.06	7.01	7.01	1.6 1.5	1.6		2.8 3.0	2.9		8.5 9.1	8.8		202.2 208.6	205.4	
18-May-17	Cloudy	Moderate	3:52	Surface	1	25.7 25.7	25.7	32.8 32.8	32.8	107.10 107.00	107.05	7.26 7.25	7.26	7.25	1.4 1.4	1.4	1.4	5.3 6.0	5.7	2.7	7.1 6.9	7.0	8.1	234.6 242.7	238.6	233.7
				Middle	19.0	25.7 25.7	25.7	32.8 32.8	32.8	106.80 106.70	106.75	7.24 7.23	7.24		1.4 1.4	1.4		2.3 1.1	1.7		8.2 9.1	8.7		250.6 247.9	249.3	
				Bottom	37.0	25.7 25.7	25.7	32.8 32.8	32.8	106.60 106.60	106.60	7.23 7.23	7.23	7.23	1.4 1.4	1.4		0.7 0.7	0.7		8.3 8.9	8.6		211.1 215.5	213.3	
20-May-17	Cloudy	Rough	12:44	Surface	1	25.5 25.5	25.5	32.9 32.9	32.9	106.00 105.70	105.85	7.21 7.18	7.20	7.18	1.4 1.4	1.4	1.5	1.9 1.3	1.6	2.0	10.4 11.1	10.8	9.9	199.4 204.3	201.8	210.0
				Middle	19.0	25.5 25.5	25.5	32.9 32.9	32.9	105.30 105.40	105.35	7.16 7.17	7.17		1.5 1.6	1.6		2.0 1.1	1.6		8.8 9.2	9.0		215.5 220.1	217.8	
				Bottom	37.0	25.5 25.5	25.5	32.9 32.9	32.9	104.90 105.10	105.00	7.13 7.15	7.14	7.14	1.5 1.6	1.6		2.8 2.6	2.7		10.0 9.7	9.9		206.7 214.1	210.4	
23-May-17	Fine	Rough	16:37	Surface	1	25.4 25.4	25.4	32.7 32.8	32.7	98.50 99.20	98.85	6.71 6.76	6.74	6.74	1.6 1.7	1.7	1.7	0.9 <0.5	0.7	2.8	9.5 9.0	9.2	8.3	65.3 68.4	66.8	60.7
				Middle	19.1	25.4 25.4	25.4	33.3 33.4	33.3	100.00 99.00	99.50	6.78 6.72	6.75		1.5 1.4	1.5		2.6 3.7	3.2		6.9 7.1	7.0		71.3 73.6	72.4	
				Bottom	37.3	25.4 25.4	25.4	33.3 33.4	33.3	98.30 99.60	98.95	6.68 6.76	6.72	6.72	1.8 2.0	1.9		5.3 3.9	4.6		8.4 8.8	8.6		41.1 44.8	43.0	
25-May-17	Cloudy	Rough	18:25	Surface	1	25.7 25.7	25.7	32.3 32.3	32.3	95.70 97.20	96.45	6.51 6.59	6.55	6.52	1.8 1.8	1.8	2.0	0.7 <0.5	0.6	0.8	14.5 15.1	14.8	15.1	25.1 24.0	24.5	26.4
				Middle	19.0	25.6 25.5	25.6	32.8 32.9	32.9	94.60 96.10	95.35	6.42 6.54	6.48		2.1 2.0	2.1		<0.5 <0.5	0.5		15.5 16.0	15.8		28.1 27.1	27.6	
				Bottom	37.0	25.5 25.6	25.5	33.3 33.2	33.2	94.40 95.60	95.00	6.40 6.49	6.45	6.45	2.1 2.1	2.1		1.1 1.3	1.2		14.8 14.7	14.8		27.5 26.5	27.0	

Remark: * DA: Depth-Averaged

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

Water Quality Monitoring Results at E3 - Mid-Flood Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (^{o}C)		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)			Current Velocity (cm/s)			Direction		
						Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
27-May-17	Fine	Rough	5:04	Surface	1	25.6 25.6	25.6	32.8 32.8	32.8	97.40 98.00	97.70	6.61 6.66	6.64	6.65	1.8 1.8	1.8	1.7	6.0 5.5	5.8	5.6	17.4 16.7	17.0	13.4	82.2 86.3	84.3	80.8
				Middle	19.0	25.4 25.4	25.4	33.0 33.0	33.0	97.90 98.10	98.00	6.66 6.67	6.67		1.7 1.6	1.7		5.1 5.4	5.3		9.6 10.2	9.9		95.6 100.6	98.1	
				Bottom	37.1	25.4 25.4	25.4	33.0 33.0	33.0	97.20 97.00	97.10	6.61 6.59	6.60	6.60	1.8 1.7	1.8		5.7 5.7	5.7		13.5 13.2	13.3		58.8 61.1	60.0	
30-May-17	Sunny	Moderate	7:54	Surface	1	26.1 26.1	26.1	33.5 33.5	33.5	100.50 100.50	100.50	6.74 6.74	6.74	6.72	1.4 1.4	1.4	1.5	0.7 0.6	0.7	0.9	13.5 13.6	13.5	15.4	162.3 162.2	162.2	164.3
				Middle	18.9	25.9 25.9	25.9	33.4 33.4	33.4	99.40 99.60	99.50	6.69 6.70	6.70		1.4 1.4	1.4		0.7 0.8	0.8		15.9 16.7	16.3		141.8 143.3	142.6	
				Bottom	36.8	25.8 25.8	25.8	33.5 33.5	33.5	99.40 99.50	99.45	6.69 6.70	6.70	6.70	1.6 1.5	1.6		0.9 1.4	1.2		16.6 15.9	16.3		184.4 191.6	188.0	
1-Jun-17	Sunny	Moderate	9:48	Surface	1	26.4 26.4	26.4	35.0 35.0	35.0	101.60 102.40	102.00	6.72 6.77	6.75	6.69	1.8 1.8	1.8	1.8	1.4 0.7	1.1	3.7	21.0 20.9	21.0	20.5	227.3 233.1	230.2	195.3
				Middle	18.9	26.1 26.1	26.1	35.7 35.6	35.6	100.20 99.80	100.00	6.64 6.62	6.63		1.8 1.8	1.8		7.0 4.7	5.9		22.8 21.0	21.9		187.7 196.7	192.2	
				Bottom	36.8	26.0 26.1	26.1	35.7 35.6	35.7	100.80 101.70	101.25	6.68 6.74	6.71	6.71	1.7 1.8	1.8		3.0 5.3	4.2		18.3 19.3	18.8		155.7 171.1	163.4	
3-Jun-17	Sunny	Moderate	14:06	Surface	1	27.0 27.0	27.0	33.5 33.5	33.5	105.90 110.30	108.10	7.00 7.28	7.14	6.90	1.6 1.5	1.6	1.7	3.2 3.6	3.4	3.5	26.6 23.4	25.0	21.3	183.4 195.4	189.4	226.4
				Middle	19.1	26.3 26.3	26.3	35.0 35.1	35.1	101.20 99.50	100.35	6.71 6.59	6.65		1.7 1.7	1.7		3.2 4.9	4.1		20.3 22.6	21.5		251.2 244.7	248.0	
				Bottom	37.2	26.1 26.0	26.1	35.7 35.9	35.8	103.30 102.00	102.65	6.83 6.76	6.80	6.80	1.8 1.6	1.7		2.6 3.2	2.9		18.8 16.2	17.5		237.8 245.5	241.7	

Remark: * DA: Depth-Averaged

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

Water Quality Monitoring Results at E4 - Mid-Ebb Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)			Current Velocity (cm/s)			Direction		
						Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
9-May-17	Sunny	Moderate	13:07	Surface	1	25.2 25.2	25.2	33.7 33.8	33.8	104.00 108.20	106.10	7.07 7.34	7.21	6.99	2.0 2.0	2.0	2.1	2.4 2.0	2.2	3.8	25.3 22.7	24.0	29.0	68.2 69.4	68.8	83.2
				Middle	13.8	24.5 24.3	24.4	34.2 34.3	34.2	104.00 94.20	99.10	7.07 6.49	6.78		2.1 2.2	2.2		4.9 3.7	4.3		37.5 37.6	37.6		82.4 85.8	84.1	
				Bottom	26.6	24.2 24.3	24.3	34.3 34.3	34.3	91.40 96.10	93.75	6.29 6.61	6.45	6.45	2.2 2.2	2.2		3.8 6.1	5.0		24.6 26.1	25.4		99.6 94.0	96.8	
11-May-17	Sunny	Moderate	12:59	Surface	1	26.0 26.0	26.0	33.5 33.6	33.5	113.10 114.20	113.65	7.59 7.67	7.63	7.39	1.5 1.5	1.5	1.8	0.7 <0.5	0.6	1.0	34.0 35.2	34.6	53.4	70.0 67.3	68.6	66.7
				Middle	13.4	25.2 25.2	25.2	33.8 33.8	33.8	103.10 107.20	105.15	7.01 7.28	7.15		2.0 2.0	2.0		<0.5 <0.5	0.5		74.8 68.5	71.7		65.0 64.4	64.7	
				Bottom	25.7	25.1 24.9	25.0	33.8 33.9	33.9	109.30 101.70	105.50	7.44 6.94	7.19	7.19	1.9 2.1	2.0		1.8 1.9	1.9		53.5 54.3	53.9		65.1 68.3	66.7	
13-May-17	Fine	Moderate	12:37	Surface	1	25.7 25.7	25.7	32.5 32.4	32.5	101.60 101.50	101.55	6.90 6.89	6.90	6.81	2.0 2.1	2.1	3.0	6.3 6.1	6.2	6.3	12.4 13.2	12.8	11.2	85.7 84.2	85.0	74.6
				Middle	13.4	24.4 24.4	24.4	34.4 34.4	34.4	99.70 95.80	97.75	6.84 6.60	6.72		3.2 3.5	3.4		6.5 6.7	6.6		11.3 10.1	10.7		65.2 65.5	65.3	
				Bottom	25.7	24.2 24.4	24.3	34.6 34.3	34.4	91.70 94.30	93.00	6.30 6.48	6.39	6.39	3.5 3.4	3.5		5.1 6.9	6.0		10.0 10.4	10.2		76.4 70.7	73.5	
16-May-17	Cloudy	Moderate	13:56	Surface	1	25.5 25.5	25.5	32.6 32.6	32.6	107.40 107.40	107.40	7.31 7.31	7.31	7.28	1.4 1.4	1.4	1.5	0.5 <0.5	0.5	0.9	8.9 10.0	9.5	11.5	90.3 88.2	89.3	83.0
				Middle	14.0	25.5 25.5	25.5	32.6 32.6	32.6	106.70 106.40	106.55	7.26 7.24	7.25		1.5 1.5	1.5		0.7 1.0	0.9		11.1 12.1	11.6		86.1 84.0	85.1	
				Bottom	27.0	25.5 25.5	25.5	32.7 32.7	32.7	105.00 106.20	105.60	7.15 7.23	7.19	7.19	1.6 1.5	1.6		0.9 1.9	1.4		14.0 12.9	13.5		77.2 72.3	74.8	
18-May-17	Fine	Moderate	15:51	Surface	1	25.8 25.8	25.8	32.8 32.8	32.8	109.50 109.30	109.40	7.40 7.39	7.40	7.37	1.7 1.6	1.7	1.6	5.3 2.9	4.1	4.3	19.3 18.4	18.8	20.6	79.6 72.9	76.2	65.6
				Middle	13.5	25.8 25.8	25.8	32.9 32.9	32.9	108.50 108.40	108.45	7.34 7.33	7.34		1.6 1.6	1.6		5.3 3.6	4.5		23.5 22.7	23.1		70.1 74.8	72.5	
				Bottom	25.9	25.8 25.8	25.8	32.9 32.9	32.9	108.80 109.10	108.95	7.36 7.38	7.37	7.37	1.7 1.6	1.7		5.4 3.2	4.3		20.7 18.9	19.8		52.2 43.9	48.0	
20-May-17	Cloudy	Rough	8:39	Surface	1	25.5 25.4	25.4	32.9 32.9	32.9	105.30 105.50	105.40	7.16 7.18	7.17	7.16	1.5 1.5	1.5	1.5	3.6 2.1	2.9	3.5	16.4 15.0	15.7	16.8	214.4 221.3	217.8	214.0
				Middle	14.0	25.4 25.4	25.4	32.9 32.9	32.9	105.20 105.00	105.10	7.16 7.14	7.15		1.5 1.6	1.6		3.4 2.1	2.8		17.4 19.0	18.2		210.0 214.0	212.0	
				Bottom	27.1	25.4 25.4	25.4	32.9 32.9	32.9	105.00 105.10	105.05	7.14 7.15	7.15	7.15	1.6 1.5	1.6		4.1 5.4	4.8		15.8 17.1	16.5		213.0 211.1	212.1	
23-May-17	Sunny	Rough	10:33	Surface	1	25.5 25.5	25.5	33.4 33.4	33.4	101.40 101.80	101.60	6.88 6.90	6.89	6.84	1.3 1.4	1.4	1.4	1.7 1.9	1.8	1.7	8.4 9.6	9.0	10.7	143.3 135.5	139.4	119.6
				Middle	14.0	25.4 25.4	25.4	33.6 33.6	33.6	100.00 99.90	99.95	6.78 6.78	6.78		1.3 1.4	1.4		1.7 1.5	1.6		8.0 8.1	8.1		90.0 86.7	88.3	
				Bottom	27.1	25.4 25.4	25.4	33.6 33.6	33.6	100.60 100.60	100.60	6.82 6.83	6.83	6.83	1.3 1.4	1.4		1.7 1.5	1.6		14.6 15.5	15.1		126.4 135.4	130.9	
25-May-17	Sunny	Rough	12:09	Surface	1	25.7 25.7	25.7	32.6 32.6	32.6	98.30 98.60	98.45	6.66 6.69	6.68	6.66	1.8 1.8	1.8	2.2	<0.5 <0.5	0.5	0.5	21.1 20.8	21.0	19.7	63.2 62.5	62.8	63.7
				Middle	13.6	25.6 25.6	25.6	33.2 33.3	33.2	98.30 98.20	98.25	6.65 6.65	6.65		2.4 2.4	2.4		<0.5 <0.5	0.5		20.4 19.7	20.0		66.8 67.2	67.0	
				Bottom	26.2	25.6 25.6	25.6	33.5 33.4	33.4	96.80 96.50	96.65	6.56 6.53	6.55	6.55	2.5 2.4	2.5		<0.5 <0.5	0.5		18.2 18.2	18.2		60.5 62.1	61.3	

Remark: * DA: Depth-Averaged

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

Water Quality Monitoring Results at E4 - Mid-Ebb Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)			Current Velocity (cm/s)			Direction		
						Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
27-May-17	Sunny	Moderate	12:17	Surface	1	25.7 25.6	25.7	32.9 32.9	32.9	100.90 100.30	100.60	6.84 6.80	6.82	6.80	1.5 1.6	1.6	1.6	5.4 5.2	5.3	5.5	14.7 13.8	14.3	13.8	89.2 90.3	89.7	85.8
				Middle	14.1	25.5 25.5	25.5	33.1 33.1	33.1	99.30 100.10	99.70	6.75 6.80	6.78		1.5 1.5	1.5		3.9 4.5	4.2		16.2 15.6	15.9		87.7 88.7	88.2	
				Bottom	27.1	25.5 25.5	25.5	33.1 33.1	33.1	100.10 99.50	99.80	6.80 6.75	6.78	6.78	1.7 1.6	1.7		6.0 7.8	6.9		10.9 11.5	11.2		80.4 78.8	79.6	
30-May-17	Fine	Moderate	15:13	Surface	1	26.1 26.1	26.1	32.9 32.9	32.9	99.00 99.30	99.15	6.66 6.68	6.67	6.65	1.7 1.7	1.7	1.7	1.0 1.7	1.4	1.1	9.2 10.9	10.1	10.1	140.7 151.8	146.3	142.1
				Middle	13.9	25.9 25.9	25.9	33.0 33.0	33.0	98.40 97.90	98.15	6.64 6.60	6.62		1.8 1.8	1.8		<0.5 <0.5	0.5		8.0 8.5	8.2		119.0 123.2	121.1	
				Bottom	26.8	26.0 26.0	26.0	33.1 33.2	33.1	98.20 99.00	98.60	6.61 6.66	6.64	6.64	1.7 1.6	1.7		1.8 1.1	1.5		12.6 11.7	12.1		156.0 161.7	158.9	
1-Jun-17	Fine	Moderate	17:05	Surface	1	26.4 26.4	26.4	35.6 35.5	35.5	106.90 106.80	106.85	7.05 7.05	7.05	6.95	1.9 1.8	1.9	1.9	0.7 <0.5	0.6	0.9	13.4 14.0	13.7	13.7	82.2 84.5	83.3	72.7
				Middle	13.7	26.3 26.3	26.3	35.6 35.6	35.6	103.70 103.50	103.60	6.85 6.84	6.85		2.1 1.8	2.0		1.2 0.8	4.3		14.9 15.2	15.1		67.6 70.5	69.1	
				Bottom	26.4	26.0 26.0	26.0	36.0 36.0	36.0	101.20 102.40	101.80	6.71 6.79	6.75	6.75	1.9 1.6	1.8		1.6 0.8	1.2		11.7 12.7	12.2		65.5 66.2	65.8	
3-Jun-17	Fine	Moderate	8:33	Surface	1	27.1 27.0	27.1	34.0 34.0	34.0	108.70 109.50	109.10	7.15 7.21	7.18	7.07	1.3 1.4	1.4	1.5	7.4 6.3	6.9	4.9	16.3 18.9	17.6	22.4	93.3 100.7	97.0	68.9
				Middle	14.1	26.5 26.4	26.5	34.4 34.9	34.7	105.20 104.90	105.05	6.97 6.95	6.96		1.5 1.5	1.5		4.6 3.9	4.3		21.6 25.3	23.4		62.5 58.4	60.5	
				Bottom	27.2	26.3 26.6	26.5	35.3 34.8	35.0	102.20 108.60	105.40	6.76 7.17	6.97	6.97	1.6 1.5	1.6		4.4 2.6	3.5		24.4 27.7	26.1		48.9 49.7	49.3	

Remark: * DA: Depth-Averaged

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

Water Quality Monitoring Results at E4 - Mid-Flood Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)			Current Velocity (cm/s)			Direction		
						Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
9-May-17	Sunny	Moderate	16:57	Surface	1	25.6 25.6	25.6	33.6 33.6	33.6	112.40 109.20	110.80	7.60 7.38	7.49	6.94	1.8 1.7	1.8	1.8	3.1 5.3	4.2	4.8	16.1 14.9	15.5	18.2	210.7 221.8	216.2	126.3
				Middle	14.2	24.4 24.3	24.3	34.1 34.2	34.2	93.30 92.00	92.65	6.42 6.34	6.38		1.8 1.8	1.8		3.7 4.5	4.1		18.8 20.1	19.4		71.7 69.0	70.3	
				Bottom	27.4	24.2 24.2	24.2	34.3 34.3	34.3	93.20 89.40	91.30	6.43 6.16	6.30	6.30	1.8 1.8	1.8		5.7 6.4	6.1		19.2 20.4	19.8		92.1 92.5	92.3	
11-May-17	Sunny	Moderate	18:16	Surface	1	26.0 26.0	26.0	33.5 33.5	33.5	120.80 119.60	120.20	8.12 8.04	8.08	7.86	1.5 1.7	1.6	1.8	<0.5 <0.5	0.5	1.4	22.7 20.6	21.7	22.8	53.6 50.6	52.1	58.7
				Middle	13.7	25.3 25.3	25.3	33.6 33.6	33.6	114.20 110.80	112.50	7.76 7.53	7.65		1.9 2.0	2.0		3.0 2.1	2.6		25.8 25.8	25.8		58.2 59.0	58.6	
				Bottom	26.4	25.3 25.3	25.3	33.6 33.6	33.6	108.80 116.70	112.75	7.39 7.92	7.66	7.66	1.9 1.8	1.9		1.7 0.7	1.2		21.5 20.1	20.8		62.7 68.2	65.4	
13-May-17	Cloudy	Moderate	7:09	Surface	1	25.3 25.1	25.2	33.1 33.3	33.2	94.70 93.10	93.90	6.45 6.35	6.40	6.39	1.8 1.8	1.8	2.0	3.7 3.2	3.5	3.5	10.5 10.5	10.5	8.1	163.2 159.5	161.3	107.8
				Middle	14.0	24.4 24.2	24.3	34.5 34.6	34.5	93.90 92.00	92.95	6.44 6.32	6.38		2.2 2.1	2.2		3.1 3.9	3.5		4.6 4.7	4.6		58.1 56.6	57.4	
				Bottom	26.9	24.3 24.4	24.4	34.5 34.4	34.5	90.60 90.10	90.35	6.24 6.19	6.22	6.22	2.2 2.1	2.2		3.9 3.4	3.7		9.2 9.3	9.3		107.6 101.8	104.7	
16-May-17	Cloudy	Moderate	8:51	Surface	1	25.5 25.5	25.5	32.7 32.7	32.7	105.30 104.90	105.10	7.17 7.14	7.16	7.14	1.5 1.5	1.5	1.5	2.4 3.9	3.2	3.1	11.1 10.0	10.5	9.9	124.8 140.0	132.4	115.2
				Middle	14.0	25.5 25.5	25.5	32.7 32.7	32.7	104.50 104.80	104.65	7.11 7.14	7.13		1.5 1.5	1.5		3.5 2.0	2.8		10.3 8.9	9.6		99.1 95.1	97.1	
				Bottom	27.1	25.5 25.5	25.5	32.7 32.8	32.7	104.80 104.20	104.50	7.14 7.09	7.12	7.12	1.5 1.5	1.5		3.3 3.3	3.3		9.0 10.0	9.5		112.1 120.1	116.1	
18-May-17	Cloudy	Moderate	5:18	Surface	1	25.7 25.7	25.7	32.8 32.8	32.8	106.60 106.50	106.55	7.22 7.22	7.22	7.22	1.5 1.4	1.5	1.5	6.8 7.2	7.0	5.1	8.6 7.8	8.2	8.5	96.3 99.1	97.7	114.9
				Middle	13.5	25.6 25.7	25.7	32.8 32.8	32.8	106.30 106.40	106.35	7.21 7.21	7.21		1.5 1.5	1.5		2.4 3.1	2.8		9.1 8.5	8.8		112.1 107.9	110.0	
				Bottom	26.1	25.6 25.7	25.6	32.8 32.8	32.8	106.20 106.30	106.25	7.20 7.21	7.21	7.21	1.6 1.5	1.6		6.3 4.9	5.6		8.0 9.0	8.5		140.2 133.8	137.0	
20-May-17	Cloudy	Rough	11:33	Surface	1	25.5 25.5	25.5	32.9 32.9	32.9	105.70 105.80	105.75	7.18 7.19	7.19	7.18	1.4 1.4	1.4	1.4	2.8 2.1	2.5	2.9	10.3 10.0	10.2	11.5	125.2 130.3	127.8	126.7
				Middle	14.0	25.5 25.5	25.5	32.9 32.9	32.9	105.40 105.50	105.45	7.16 7.17	7.17		1.4 1.4	1.4		4.3 3.5	3.9		11.6 12.0	11.8		119.1 121.8	120.5	
				Bottom	27.0	25.5 25.5	25.5	32.9 32.9	32.9	105.40 105.30	105.35	7.16 7.16	7.16	7.16	1.5 1.4	1.5		2.9 1.9	2.4		12.0 12.7	12.4		130.9 132.5	131.7	
23-May-17	Fine	Rough	15:19	Surface	1	25.6 25.6	25.6	33.5 33.5	33.5	101.50 101.10	101.30	6.87 6.84	6.86	6.82	1.5 1.6	1.6	1.6	3.5 2.0	2.8	3.8	12.2 11.3	11.8	12.4	77.4 74.0	75.7	69.3
				Middle	13.9	25.5 25.5	25.5	33.6 33.5	33.6	99.90 100.40	100.15	6.77 6.81	6.79		1.6 1.5	1.6		4.1 4.0	4.1		10.5 11.9	11.2		61.7 63.7	62.7	
				Bottom	26.7	25.5 25.5	25.5	33.6 33.6	33.6	100.40 99.70	100.05	6.80 6.75	6.78	6.78	1.6 1.5	1.6		4.0 5.3	4.7		14.6 14.0	14.3		68.8 70.1	69.5	
25-May-17	Cloudy	Rough	17:19	Surface	1	25.7 25.8	25.8	32.5 32.4	32.5	99.40 99.10	99.25	6.73 6.72	6.73	6.72	1.8 1.8	1.8	2.0	1.7 1.1	1.4	0.8	16.1 16.3	16.2	15.4	249.2 253.3	251.2	247.6
				Middle	14.0	25.6 25.6	25.6	33.5 33.5	33.5	99.00 99.10	99.05	6.69 6.72	6.71		2.1 2.3	2.2		<0.5 <0.5	0.5		15.3 15.0	15.1		250.5 249.8	250.2	
				Bottom	27.0	25.6 25.6	25.6	33.5 33.6	33.6	97.40 95.70	96.55	6.59 6.47	6.53	6.53	2.0 2.1	2.1		<0.5 <0.5	0.5		14.6 15.0	14.8		243.3 239.5	241.4	

Remark: * DA: Depth-Averaged

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

Water Quality Monitoring Results at E4 - Mid-Flood Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)			Current Velocity (cm/s)			Direction		
						Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
27-May-17	Fine	Rough	6:21	Surface	1	25.6 25.6	25.6	33.2 33.2	33.2	100.40 100.30	100.35	6.79 6.79	6.79	6.78	1.3 1.2	1.3	1.3	5.7 4.0	4.9	5.8	20.3 21.3	20.8	17.2	71.8 73.6	72.7	72.3
				Middle	13.9	25.5 25.6	25.6	33.2 33.2	33.2	99.70 99.80	99.75	6.76 6.76	6.76		1.3 1.3	1.3		5.5 6.9	6.2		15.6 16.1	15.9		80.6 82.4	81.5	
				Bottom	26.8	25.6 25.6	25.6	33.2 33.2	33.2	99.70 99.80	99.75	6.76 6.77	6.77	6.77	1.3 1.3	1.3		5.8 6.8	6.3		14.9 15.0	15.0		62.3 63.3	62.8	
30-May-17	Sunny	Moderate	9:11	Surface	1	26.1 26.1	26.1	33.0 33.0	33.0	98.90 99.10	99.00	6.65 6.67	6.66	6.67	1.8 1.8	1.8	1.8	1.3 0.6	1.0	1.2	12.2 11.8	12.0	12.3	104.5 106.6	105.6	134.0
				Middle	14.1	26.1 26.1	26.1	33.1 33.1	33.1	99.30 99.30	99.30	6.68 6.68	6.68		1.7 1.8	1.8		1.8 1.2	1.5		9.2 10.9	10.0		80.4 82.2	81.3	
				Bottom	27.1	26.0 26.0	26.0	33.1 33.1	33.1	98.90 98.90	98.90	6.65 6.65	6.65	6.65	1.9 1.7	1.8		1.0 1.1	1.1		15.5 14.4	15.0		212.4 217.7	215.1	
1-Jun-17	Sunny	Moderate	11:06	Surface	1	26.3 26.3	26.3	35.5 35.5	35.5	102.00 102.50	102.25	6.74 6.77	6.76	6.70	1.9 1.8	1.9	1.9	2.0 1.0	1.5	1.8	20.2 19.2	19.7	16.1	235.6 229.9	232.7	202.3
				Middle	13.7	26.2 26.2	26.2	35.5 35.6	35.5	100.80 99.80	100.30	6.67 6.61	6.64		1.9 1.8	1.9		1.4 3.0	4.1		15.5 16.2	15.8		197.7 200.9	199.3	
				Bottom	26.4	26.1 26.0	26.1	35.8 35.8	35.8	100.80 100.00	100.40	6.68 6.63	6.66	6.66	1.9 1.8	1.9		1.3 1.9	1.6		12.3 13.4	12.9		177.5 172.3	174.9	
3-Jun-17	Sunny	Moderate	12:47	Surface	1	26.9 26.9	26.9	34.0 34.1	34.1	114.00 113.10	113.55	7.52 7.46	7.49	7.43	1.4 1.5	1.5	1.5	2.5 2.6	2.6	2.6	23.0 24.7	23.8	20.2	198.6 175.5	187.1	192.3
				Middle	14.0	26.9 26.8	26.8	34.1 34.1	34.1	111.90 111.20	111.55	7.38 7.34	7.36		1.4 1.5	1.5		1.0 1.5	1.3		16.2 16.9	16.6		223.4 218.7	221.1	
				Bottom	27.1	26.5 26.5	26.5	34.7 34.8	34.8	110.10 110.00	110.05	7.28 7.28	7.28	7.28	1.5 1.5	1.5		2.6 5.3	4.0		19.0 21.4	20.2		166.6 170.8	168.7	

Remark: * DA: Depth-Averaged

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

Water Quality Monitoring Results at E5 - Mid-Ebb Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)			Current Velocity (cm/s)			Direction		
						Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
9-May-17	Sunny	Moderate	13:28	Surface	1	25.4 25.5	25.4	33.6 33.7	33.7	104.50 103.00	103.75	7.09 6.97	7.03	6.80	1.5 1.6	1.6	2.0	4.8 4.7	4.8	5.4	12.8 10.5	11.7	15.8	114.8 109.5	112.2	115.4
				Middle	16.5	24.0 24.0	24.0	34.3 34.3	34.3	95.20 94.80	95.00	6.58 6.56	6.57		2.2 2.2	2.2		3.4 3.3	3.4		19.8 18.1	18.9		138.8 132.4	135.6	
				Bottom	31.9	24.0 24.0	24.0	34.3 34.3	34.3	90.30 92.30	91.30	6.24 6.38	6.31	6.31	2.1 2.2	2.2		8.8 7.4	8.1		15.3 18.0	16.6		102.2 94.7	98.5	
11-May-17	Sunny	Moderate	13:24	Surface	1	26.1 26.0	26.1	33.7 33.7	33.7	111.70 109.10	110.40	7.48 7.32	7.40	7.15	1.4 1.4	1.4	1.9	0.7 0.8	0.8	0.8	22.2 21.3	21.8	34.4	96.3 93.5	94.9	88.2
				Middle	14.9	24.6 24.5	24.5	34.4 34.4	34.4	103.30 98.00	100.65	7.08 6.71	6.90		2.1 2.2	2.2		1.2 0.8	1.0		48.2 47.9	48.0		75.1 78.7	76.9	
				Bottom	28.7	24.5 24.6	24.5	34.5 34.4	34.4	92.70 94.30	93.50	6.35 6.46	6.41	6.41	2.3 2.2	2.3		0.7 0.7	0.7		32.9 33.6	33.3		93.6 92.3	92.9	
13-May-17	Fine	Moderate	12:06	Surface	1	25.4 25.4	25.4	32.8 32.8	32.8	100.90 99.30	100.10	6.86 6.76	6.81	6.71	1.7 1.7	1.7	1.9	3.7 2.3	3.0	5.4	16.4 15.0	15.7	18.2	86.6 84.7	85.6	111.9
				Middle	15.6	24.5 24.5	24.5	34.4 34.4	34.4	95.10 97.70	96.40	6.52 6.69	6.61		1.9 2.0	2.0		6.0 5.3	5.7		14.9 13.0	14.0		84.1 90.0	87.1	
				Bottom	30.1	24.6 24.4	24.5	34.3 34.5	34.4	93.80 91.80	92.80	6.43 6.29	6.36	6.36	1.9 1.9	1.9		7.1 8.0	7.6		23.8 25.9	24.9		164.9 161.0	163.0	
16-May-17	Cloudy	Moderate	13:36	Surface	1	25.5 25.5	25.5	32.8 32.8	32.8	104.10 104.20	104.15	7.08 7.09	7.09	7.04	1.4 1.5	1.5	1.5	1.2 1.5	1.4	1.0	14.4 15.1	14.8	16.7	79.6 81.2	80.4	92.4
				Middle	16.5	25.4 25.4	25.4	32.9 32.9	32.9	102.40 103.00	102.70	6.97 7.01	6.99		1.5 1.5	1.5		0.8 <0.5	0.7		18.0 14.3	16.2		91.0 88.7	89.9	
				Bottom	32.0	25.4 25.4	25.4	32.9 32.9	32.9	102.40 102.90	102.65	6.97 7.00	6.99	6.99	1.5 1.6	1.6		0.8 1.4	1.1		20.0 18.3	19.2		103.7 109.9	106.8	
18-May-17	Fine	Moderate	15:29	Surface	1	25.8 25.8	25.8	32.8 32.8	32.8	109.50 109.70	109.60	7.41 7.42	7.42	7.38	1.6 1.7	1.7	1.7	2.4 2.2	2.3	2.7	13.8 15.0	14.4	13.3	139.2 142.2	140.7	117.6
				Middle	14.8	25.8 25.8	25.8	32.8 32.9	32.8	108.90 108.30	108.60	7.37 7.33	7.35		1.6 1.7	1.7		2.0 1.8	1.9		16.2 13.9	15.1		86.7 79.8	83.2	
				Bottom	28.5	25.8 25.8	25.8	32.9 32.8	32.8	108.60 109.50	109.05	7.35 7.40	7.38	7.38	1.6 1.7	1.7		4.1 3.4	3.8		10.8 9.7	10.3		127.0 131.0	129.0	
20-May-17	Cloudy	Rough	9:01	Surface	1	25.4 25.4	25.4	32.9 32.9	32.9	104.40 104.30	104.35	7.10 7.09	7.10	7.09	1.6 1.5	1.6	1.7	0.6 1.4	1.0	1.5	23.4 24.1	23.8	18.6	282.0 279.4	280.7	279.3
				Middle	16.5	25.4 25.4	25.4	32.9 32.9	32.9	104.10 104.20	104.15	7.08 7.09	7.09		1.7 1.7	1.7		2.7 1.5	2.1		20.2 20.0	20.1		284.9 299.4	292.1	
				Bottom	32.0	25.4 25.4	25.4	32.9 32.9	32.9	103.90 104.20	104.05	7.07 7.09	7.08	7.08	1.7 1.7	1.7		1.9 1.0	1.5		2.2 21.4	11.8		262.8 267.6	265.2	
23-May-17	Sunny	Rough	11:01	Surface	1	25.5 25.4	25.4	33.4 33.5	33.5	102.10 101.70	101.90	6.92 6.90	6.91	6.89	1.3 1.2	1.3	1.2	1.4 1.4	1.4	2.1	9.7 10.9	10.3	14.8	77.4 80.6	79.0	104.2
				Middle	16.5	25.3 25.3	25.3	33.6 33.6	33.6	101.20 100.90	101.05	6.87 6.85	6.86		1.2 1.2	1.2		2.2 2.6	2.4		14.9 18.6	16.8		85.6 89.7	87.7	
				Bottom	32.0	25.3 25.3	25.3	33.6 33.6	33.6	101.00 101.00	101.00	6.86 6.86	6.86	6.86	1.2 1.3	1.3		2.2 2.6	2.4		17.7 16.7	17.2		141.5 150.3	145.9	
25-May-17	Sunny	Rough	12:38	Surface	1	25.8 25.7	25.8	32.5 32.6	32.6	99.70 98.80	99.25	6.76 6.69	6.73	6.70	1.9 1.8	1.9	2.1	0.5 <0.5	0.5	0.5	11.3 12.0	11.7	14.5	70.3 71.3	70.8	73.6
				Middle	16.1	25.6 25.6	25.6	33.3 33.3	33.3	98.30 98.40	98.35	6.66 6.67	6.67		2.2 2.2	2.2		<0.5 <0.5	0.5		14.8 15.1	15.0		69.2 70.8	70.0	
				Bottom	31.2	25.6 25.6	25.6	33.3 33.4	33.3	96.80 96.90	96.85	6.56 6.56	6.56	6.56	2.1 2.1	2.1		<0.5 <0.5	0.5		16.7 17.1	16.9		80.3 79.8	80.1	

Remark: * DA: Depth-Averaged

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

Water Quality Monitoring Results at E5 - Mid-Ebb Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)			Current Velocity (cm/s)			Direction		
						Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
27-May-17	Sunny	Moderate	11:51	Surface	1	25.7 25.7	25.7	32.9 32.8	32.8	100.80 100.80	100.80	6.83 6.83	6.83	6.80	1.6 1.5	1.6	1.6	4.3 2.1	3.2	4.7	10.8 11.2	11.0	12.4	111.6 116.4	114.0	87.5
				Middle	16.4	25.5 25.5	25.5	33.1 33.1	33.1	99.30 99.70	99.50	6.75 6.77	6.76		1.5 1.6	1.6		5.6 5.5	5.6		12.8 13.3	13.1		63.0 61.5	62.3	
				Bottom	31.8	25.5 25.5	25.5	33.1 33.1	33.1	100.00 100.40	100.20	6.79 6.82	6.81	6.81	1.6 1.7	1.7		5.4 5.2	5.3		13.6 13.0	13.3		87.8 84.4	86.1	
30-May-17	Fine	Moderate	14:49	Surface	1	26.1 26.1	26.1	32.8 32.8	32.8	98.30 98.60	98.45	6.62 6.64	6.63	6.62	1.6 1.7	1.7	1.7	1.6 1.0	1.3	1.1	21.7 19.6	20.6	19.3	78.3 86.3	82.3	93.6
				Middle	16.3	25.9 26.0	26.0	33.0 33.1	33.0	97.90 98.30	98.10	6.60 6.62	6.61		1.8 1.8	1.8		1.4 1.6	1.5		16.9 15.7	16.3		100.3 112.1	106.2	
				Bottom	31.6	26.0 26.0	26.0	33.2 33.2	33.2	98.00 98.10	98.05	6.60 6.60	6.60	6.60	1.7 1.7	1.7		0.5 0.5	0.5		21.7 20.2	21.0		90.4 94.0	92.2	
1-Jun-17	Fine	Moderate	16:37	Surface	1	26.3 26.4	26.4	35.6 35.6	35.6	103.70 104.00	103.85	6.84 6.87	6.86	6.74	1.8 1.8	1.8	1.8	0.8 <0.5	0.7	0.9	21.1 22.0	21.6	22.0	78.9 80.7	79.8	81.3
				Middle	16.3	26.0 26.1	26.0	35.8 35.8	35.8	98.90 100.80	99.85	6.55 6.68	6.62		1.8 1.8	1.8		0.8 1.4	3.4		24.9 22.8	23.8		63.9 67.6	65.7	
				Bottom	31.5	26.0 26.0	26.0	35.9 35.9	35.9	98.20 103.40	100.80	6.51 6.85	6.68	6.68	1.9 1.8	1.9		1.4 0.7	1.1		21.4 19.6	20.5		100.2 96.5	98.4	
3-Jun-17	Fine	Moderate	8:58	Surface	1	27.1 26.9	27.0	33.9 34.0	33.9	108.30 106.60	107.45	7.12 7.03	7.08	6.90	2.0 1.9	2.0	1.8	2.6 3.8	3.2	3.3	18.8 20.1	19.4	21.8	88.8 90.6	89.7	103.9
				Middle	16.1	26.3 26.3	26.3	35.3 35.3	35.3	101.40 102.20	101.80	6.70 6.76	6.73		1.8 1.6	1.7		3.1 2.6	2.9		21.9 20.1	21.0		112.5 119.4	116.0	
				Bottom	31.3	26.2 26.3	26.3	35.5 35.4	35.4	103.70 102.50	103.10	6.86 6.78	6.82	6.82	1.7 1.7	1.7		2.8 4.6	3.7		23.3 26.3	24.8		104.7 107.5	106.1	

Remark: * DA: Depth-Averaged

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

Water Quality Monitoring Results at E5 - Mid-Flood Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)			Current Velocity (cm/s)			Direction		
						Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
9-May-17	Sunny	Moderate	16:32	Surface	1	26.1 25.5	25.8	33.5 33.6	33.5	113.00 107.00	110.00	7.58 7.24	7.41	6.91	2.0 2.0	2.0	2.1	5.5 6.5	6.0	6.0	21.5 19.3	20.4	23.0	86.2 88.9	87.5	104.1
				Middle	17.0	23.9 23.9	23.9	34.4 34.3	34.3	90.40 94.40	92.40	6.27 6.55	6.41		2.2 2.1	2.2		7.2 4.7	6.0		26.8 24.4	25.6		103.7 118.8	111.3	
				Bottom	33.0	23.8 23.9	23.9	34.4 34.4	34.4	87.00 86.30	86.65	6.03 5.98	6.01	6.01	2.3 2.1	2.2		5.4 6.5	6.0		24.2 21.6	22.9		110.0 117.0	113.5	
11-May-17	Sunny	Moderate	17:52	Surface	1	26.2 26.3	26.2	33.7 33.6	33.6	111.40 114.80	113.10	7.45 7.66	7.56	7.39	1.5 1.5	1.5	1.8	<0.5 0.5	0.5	0.7	21.2 20.5	20.8	28.2	105.8 109.3	107.5	89.2
				Middle	15.4	25.0 25.0	25.0	34.1 34.1	34.1	105.10 107.20	106.15	7.15 7.30	7.23		1.8 1.8	1.8		1.1 1.1	1.1		36.6 32.5	34.5		89.2 92.2	90.7	
				Bottom	29.9	25.0 25.0	25.0	34.1 34.1	34.1	109.90 104.50	107.20	7.48 7.12	7.30	7.30	1.9 2.0	2.0		<0.5 <0.5	0.5		28.8 30.0	29.4		71.3 67.4	69.4	
13-May-17	Cloudy	Moderate	7:35	Surface	1	25.5 25.4	25.5	32.9 32.9	32.9	100.70 101.00	100.85	6.84 6.87	6.86	6.68	1.6 1.7	1.7	2.1	6.7 7.0	6.9	6.0	9.1 10.1	9.6	11.2	66.0 61.1	63.6	68.4
				Middle	16.1	24.3 24.3	24.3	34.6 34.6	34.6	93.60 95.40	94.50	6.44 6.56	6.50		2.3 2.4	2.4		5.1 5.9	5.5		15.2 14.6	14.9		73.6 80.1	76.8	
				Bottom	31.3	24.2 24.2	24.2	34.7 34.6	34.6	90.40 90.70	90.55	6.21 6.22	6.22	6.22	2.2 2.2	2.2		5.7 5.5	5.6		9.6 8.7	9.1		63.0 66.6	64.8	
16-May-17	Cloudy	Moderate	9:15	Surface	1	25.4 25.4	25.4	32.9 32.9	32.9	101.50 102.00	101.75	6.91 6.94	6.93	6.91	1.5 1.4	1.5	1.5	4.7 4.7	4.7	4.4	11.4 12.1	11.7	12.6	86.1 80.4	83.2	82.9
				Middle	16.5	25.4 25.4	25.4	32.9 32.9	32.9	101.10 101.70	101.40	6.88 6.92	6.90		1.5 1.5	1.5		3.9 5.1	4.5		14.4 16.0	15.2		88.6 93.5	91.0	
				Bottom	32.0	25.4 25.4	25.4	32.9 32.9	32.9	101.70 101.00	101.35	6.92 6.88	6.90	6.90	1.5 1.5	1.5		5.3 2.6	4.0		10.1 11.4	10.8		71.7 77.0	74.4	
18-May-17	Cloudy	Moderate	5:43	Surface	1	25.7 25.7	25.7	32.8 32.8	32.8	107.40 107.20	107.30	7.28 7.27	7.28	7.27	1.5 1.4	1.5	1.5	5.2 3.8	4.5	5.4	11.0 12.1	11.5	10.8	79.1 84.1	81.6	85.0
				Middle	16.0	25.7 25.7	25.7	32.8 32.8	32.8	107.10 107.10	107.10	7.26 7.26	7.26		1.5 1.5	1.5		6.6 5.6	6.1		11.1 12.6	11.9		92.5 94.1	93.3	
				Bottom	31.0	25.6 25.6	25.6	32.8 32.8	32.8	107.00 106.90	106.95	7.26 7.25	7.26	7.26	1.5 1.6	1.6		4.7 6.3	5.5		8.4 9.3	8.9		81.2 78.6	79.9	
20-May-17	Cloudy	Rough	11:09	Surface	1	25.5 25.5	25.5	32.9 32.9	32.9	105.80 105.80	105.80	7.19 7.19	7.19	7.18	1.4 1.4	1.4	1.4	3.1 1.1	2.1	2.6	12.5 13.0	12.7	12.8	88.6 91.2	89.9	92.1
				Middle	16.5	25.5 25.5	25.5	32.9 32.9	32.9	105.40 105.50	105.45	7.16 7.16	7.16		1.4 1.4	1.4		2.8 3.5	3.2		13.7 14.0	13.8		96.7 90.7	93.7	
				Bottom	32.1	25.5 25.5	25.5	32.9 32.9	32.9	105.20 105.40	105.30	7.15 7.16	7.16	7.16	1.4 1.4	1.4		1.8 3.4	2.6		11.9 11.7	11.8		92.1 93.4	92.7	
23-May-17	Fine	Rough	14:56	Surface	1	25.5 25.5	25.5	33.5 33.5	33.5	102.30 102.50	102.40	6.94 6.94	6.94	6.91	1.4 1.4	1.4	1.4	3.4 3.6	3.5	3.1	9.8 10.7	10.2	10.0	135.6 131.1	133.4	101.1
				Middle	16.6	25.4 25.4	25.4	33.6 33.6	33.6	101.30 101.40	101.35	6.88 6.88	6.88		1.3 1.5	1.4		2.6 3.3	3.0		7.7 8.4	8.1		96.7 94.7	95.7	
				Bottom	32.2	25.4 25.4	25.4	33.6 33.6	33.6	101.40 101.60	101.50	6.88 6.89	6.89	6.89	1.3 1.3	1.3		2.8 2.7	2.8		12.3 11.3	11.8		73.6 75.0	74.3	
25-May-17	Cloudy	Rough	16:55	Surface	1	25.8 25.7	25.7	32.5 32.5	32.5	99.10 99.60	99.35	6.72 6.75	6.74	6.73	1.8 1.7	1.8	2.2	0.7 0.8	0.8	0.7	19.6 20.8	20.2	19.8	261.1 251.1	256.1	258.7
				Middle	16.8	25.6 25.6	25.6	33.5 33.5	33.5	98.90 99.50	99.20	6.69 6.74	6.72		2.4 2.4	2.4		1.0 0.9	1.0		20.4 20.5	20.4		247.5 250.2	248.9	
				Bottom	32.6	25.6 25.6	25.6	33.5 33.5	33.5	96.30 96.80	96.55	6.52 6.55	6.54	6.54	2.3 2.4	2.4		<0.5 0.5	0.5		18.3 19.1	18.7		270.3 272.0	271.2	

Remark: * DA: Depth-Averaged

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

Water Quality Monitoring Results at E5 - Mid-Flood Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (^{o}C)		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)			Current Velocity (cm/s)			Direction		
						Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
27-May-17	Fine	Rough	6:47	Surface	1	25.6 25.6	25.6	33.3 33.3	33.3	100.20 100.10	100.15	6.78 6.78	6.78	6.76	1.3 1.3	1.3	1.3	6.9 6.5	6.7	7.4	13.4 13.0	13.2	17.3	76.2 80.5	78.4	83.6
				Middle	16.3	25.5 25.5	25.5	33.2 33.3	33.2	99.40 99.30	99.35	6.74 6.73	6.74		1.3 1.4	1.4		6.3 5.4	5.9		17.5 18.2	17.8		94.2 98.1	96.1	
				Bottom	31.6	25.5 25.5	25.5	33.3 33.3	33.3	99.40 99.40	99.40	6.74 6.74	6.74	6.74	1.2 1.4	1.3		9.5 9.8	9.7		20.7 21.1	20.9		77.2 75.2	76.2	
30-May-17	Sunny	Moderate	9:35	Surface	1	26.0 26.1	26.0	32.9 32.9	32.9	99.20 99.30	99.25	6.68 6.68	6.68	6.68	1.9 1.8	1.9	1.8	1.9 <0.5	1.2	3.0	10.5 9.9	10.2	10.4	98.3 93.4	95.9	134.9
				Middle	16.2	26.1 26.0	26.1	33.1 33.1	33.1	99.30 99.20	99.25	6.68 6.67	6.68		1.8 1.7	1.8		2.0 1.3	1.7		7.9 8.9	8.4		146.6 142.7	144.6	
				Bottom	31.3	26.0 26.0	26.0	33.1 33.1	33.1	98.70 98.70	98.70	6.65 6.64	6.65	6.65	1.7 1.8	1.8		5.4 7.1	6.3		13.4 11.8	12.6		166.2 162.3	164.3	
1-Jun-17	Sunny	Moderate	11:35	Surface	1	26.3 26.3	26.3	35.5 35.5	35.5	102.80 102.40	102.60	6.80 6.77	6.79	6.74	1.8 1.8	1.8	1.8	4.2 5.4	4.8	2.5	9.9 10.6	10.2	13.5	210.5 202.0	206.2	191.0
				Middle	16.3	26.2 26.2	26.2	35.5 35.5	35.5	101.70 100.50	101.10	6.73 6.65	6.69		1.8 1.8	1.8		0.7 1.8	6.0		12.7 13.3	13.0		177.7 182.3	180.0	
				Bottom	31.7	26.2 26.0	26.1	35.6 35.9	35.7	101.90 100.00	100.95	6.74 6.63	6.69	6.69	1.8 1.9	1.9		1.8 1.0	1.4		16.7 17.8	17.3		184.9 188.8	186.8	
3-Jun-17	Sunny	Moderate	12:19	Surface	1	27.0 27.0	27.0	34.0 34.1	34.0	112.40 112.30	112.35	7.40 7.40	7.40	7.30	1.4 1.4	1.4	1.4	2.6 4.0	3.3	3.4	25.0 23.0	24.0	24.8	191.3 186.4	188.9	184.4
				Middle	16.2	26.5 26.5	26.5	34.5 34.6	34.5	108.60 108.60	108.60	7.19 7.19	7.19		1.4 1.4	1.4		4.4 4.4	4.4		28.8 26.3	27.5		199.0 190.7	194.9	
				Bottom	31.5	26.5 26.5	26.5	34.7 34.7	34.7	109.90 110.60	110.25	7.27 7.32	7.30	7.30	1.5 1.4	1.5		2.1 3.1	2.6		22.4 23.5	23.0		171.5 167.5	169.5	

Remark: * DA: Depth-Averaged

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

Water Quality Monitoring Results at E6 - Mid-Ebb Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)			Current Velocity (cm/s)			Direction		
						Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
9-May-17	Sunny	Moderate	12:34	Surface	1	25.2 25.0	25.1	33.7 33.8	33.7	103.20 99.20	101.20	7.02 6.76	6.89	6.46	2.0 2.1	2.1	2.1	3.8 5.6	4.7	7.7	18.8 17.9	18.4	14.3	105.2 108.8	107.0	224.4
				Middle	15.4	24.1 24.1	24.1	34.5 34.5	34.5	86.00 88.90	87.45	5.93 6.13	6.03		2.2 2.2	2.2		7.6 10.4	9.0		12.8 13.9	13.3		300.9 286.0	293.5	
				Bottom	29.8	24.1 23.9	24.0	34.5 34.6	34.5	81.90 82.20	82.05	5.66 5.67	5.67	5.67	2.3 2.2	2.3		10.1 8.4	9.3		10.3 12.0	11.1		265.1 280.5	272.8	
11-May-17	Sunny	Moderate	12:23	Surface	1	25.8 25.7	25.8	33.4 33.4	33.4	114.40 106.80	110.60	7.72 7.21	7.47	6.92	1.7 1.9	1.8	2.6	0.8 <0.5	0.7	1.7	31.2 31.2	31.2	28.9	142.8 141.8	142.3	80.1
				Middle	15.3	24.6 24.5	24.6	34.3 34.3	34.3	91.90 94.10	93.00	6.30 6.45	6.38		3.1 3.0	3.1		4.3 2.5	3.4		30.5 30.4	30.4		42.3 44.3	43.3	
				Bottom	29.6	24.5 24.5	24.5	34.3 34.4	34.4	95.40 100.30	97.85	6.54 6.88	6.71	6.71	2.8 3.1	3.0		1.3 <0.5	0.9		26.0 24.3	25.1		57.2 52.1	54.7	
13-May-17	Fine	Moderate	13:18	Surface	1	25.7 25.8	25.8	32.6 32.6	32.6	101.20 101.30	101.25	6.86 6.87	6.87	6.76	1.8 1.7	1.8	2.1	4.3 4.1	4.2	5.6	14.2 15.2	14.7	11.3	82.1 84.8	83.4	78.7
				Middle	15.5	24.7 24.7	24.7	34.1 34.1	34.1	96.60 97.90	97.25	6.61 6.70	6.66		2.3 2.2	2.3		4.8 4.1	4.5		9.4 9.4	9.4		79.6 77.4	78.5	
				Bottom	29.9	24.6 24.6	24.6	34.3 34.2	34.2	91.50 91.60	91.55	6.26 6.26	6.26	6.26	2.3 2.1	2.2		8.8 7.3	8.1		10.0 9.8	9.9		76.2 72.1	74.1	
16-May-17	Cloudy	Moderate	14:33	Surface	1	25.6 25.6	25.6	32.5 32.5	32.5	109.40 109.90	109.65	7.44 7.48	7.46	7.43	1.4 1.4	1.4	1.4	<0.5 0.6	0.6	1.6	8.8 9.2	9.0	10.9	80.5 77.3	78.9	77.8
				Middle	15.3	25.6 25.6	25.6	32.6 32.6	32.6	108.30 109.20	108.75	7.37 7.43	7.40		1.5 1.4	1.5		0.8 1.6	1.2		10.1 11.1	10.6		69.9 66.4	68.2	
				Bottom	29.5	25.5 25.5	25.5	32.7 32.6	32.6	108.30 109.10	108.70	7.37 7.42	7.40	7.40	1.5 1.4	1.5		3.0 3.0	3.0		12.1 14.0	13.1		84.1 88.3	86.2	
18-May-17	Fine	Moderate	16:25	Surface	1	25.8 25.8	25.8	32.8 32.8	32.8	110.60 110.30	110.45	7.48 7.46	7.47	7.44	1.7 1.7	1.7	1.7	2.0 1.9	2.0	1.5	9.9 10.5	10.2	11.3	182.3 191.1	186.7	173.8
				Middle	15.3	25.8 25.8	25.8	32.8 32.8	32.8	109.80 109.30	109.55	7.43 7.40	7.42		1.7 1.6	1.7		1.4 2.9	2.2		11.8 10.6	11.2		126.3 113.6	119.9	
				Bottom	29.6	25.7 25.7	25.7	32.8 32.8	32.8	109.10 109.30	109.20	7.39 7.40	7.40	7.40	1.6 1.7	1.7		<0.5 <0.5	0.5		13.4 11.8	12.6		212.1 217.2	214.7	
20-May-17	Cloudy	Rough	8:03	Surface	1	25.5 25.5	25.5	32.9 32.9	32.9	104.80 104.90	104.85	7.13 7.13	7.13	7.12	1.5 1.5	1.5	1.5	4.6 5.5	5.1	4.1	14.2 15.3	14.7	16.2	241.1 236.4	238.8	222.6
				Middle	15.3	25.4 25.4	25.4	32.9 32.9	32.9	104.40 104.50	104.45	7.10 7.10	7.10		1.5 1.5	1.5		3.0 3.9	3.5		17.3 18.3	17.8		221.1 217.9	219.5	
				Bottom	29.6	25.4 25.4	25.4	32.9 32.9	32.9	104.40 104.40	104.40	7.10 7.10	7.10	7.10	1.5 1.6	1.6		4.2 3.2	3.7		15.9 16.1	16.0		210.2 208.8	209.5	
23-May-17	Sunny	Rough	9:56	Surface	1	25.5 25.5	25.5	33.5 33.5	33.5	99.50 99.60	99.55	6.74 6.75	6.75	6.73	1.5 1.5	1.5	1.7	0.9 1.4	1.2	1.3	14.4 17.4	15.9	13.1	86.5 83.6	85.1	84.8
				Middle	15.4	25.4 25.4	25.4	33.6 33.6	33.6	98.80 99.00	98.90	6.70 6.72	6.71		1.5 1.7	1.6		1.4 1.7	1.6		11.6 10.0	10.8		100.8 91.0	95.9	
				Bottom	29.9	25.4 25.4	25.4	33.6 33.6	33.6	98.90 99.30	99.10	6.71 6.73	6.72	6.72	1.9 2.0	2.0		1.0 1.4	1.2		13.4 11.9	12.6		71.1 75.6	73.4	
25-May-17	Sunny	Rough	11:34	Surface	1	25.8 25.7	25.8	32.7 32.8	32.7	97.10 96.40	96.75	6.58 6.53	6.56	6.52	2.1 2.2	2.2	2.4	<0.5 <0.5	0.5	0.5	18.3 19.4	18.8	20.7	74.2 75.2	74.7	78.0
				Middle	15.0	25.6 25.6	25.6	33.5 33.5	33.5	96.10 95.80	95.95	6.50 6.48	6.49		2.6 2.6	2.6		0.6 <0.5	0.6		24.7 23.8	24.3		79.0 77.4	78.2	
				Bottom	29.0	25.6 25.6	25.6	33.4 33.6	33.5	95.20 95.00	95.10	6.44 6.42	6.43	6.43	2.5 2.5	2.5		<0.5 <0.5	0.5		19.3 18.7	19.0		80.3 81.6	81.0	

Remark: * DA: Depth-Averaged

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

Water Quality Monitoring Results at E6 - Mid-Ebb Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)			Current Velocity (cm/s)			Direction		
						Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
27-May-17	Sunny	Moderate	12:52	Surface	1	25.7 25.7	25.7	32.8 32.8	32.8	98.50 99.30	98.90	6.67 6.73	6.70	6.73	1.8 1.8	1.8	1.7	3.4 4.7	4.1	7.3	13.8 13.0	13.4	13.7	96.9 98.6	97.7	88.4
				Middle	15.4	25.6 25.5	25.5	32.9 33.0	32.9	98.80 100.20	99.50	6.71 6.81	6.76		1.7 1.6	1.7		6.6 8.0	7.3		15.1 16.6	15.9		63.3 62.0	62.6	
				Bottom	29.8	25.4 25.6	25.5	33.0 32.9	33.0	99.90 98.00	98.95	6.80 6.65	6.73	6.73	1.7 1.7	1.7		9.7 11.5	10.6		11.2 12.2	11.7		107.5 102.2	104.9	
30-May-17	Fine	Moderate	15:47	Surface	1	26.1 26.1	26.1	32.8 32.8	32.8	98.40 99.00	98.70	6.63 6.66	6.65	6.63	1.7 1.7	1.7	1.8	<0.5 <0.5	0.5	0.5	7.6 10.6	9.1	13.0	73.2 80.8	77.0	70.8
				Middle	15.8	26.0 25.9	26.0	33.0 33.0	33.0	97.90 98.40	98.15	6.60 6.63	6.62		1.9 2.0	2.0		<0.5 <0.5	0.5		12.2 12.0	12.1		44.3 50.8	47.6	
				Bottom	30.6	26.0 26.0	26.0	33.2 33.2	33.2	99.30 98.30	98.80	6.68 6.62	6.65	6.65	1.8 1.7	1.8		<0.5 0.7	0.6		18.8 16.7	17.7		85.5 90.0	87.8	
1-Jun-17	Fine	Moderate	17:42	Surface	1	26.4 26.4	26.4	35.6 35.6	35.6	105.20 103.10	104.15	6.94 6.80	6.87	6.75	1.9 1.8	1.9	2.0	1.3 0.7	1.0	1.7	21.2 20.7	20.9	18.2	79.3 82.5	80.9	83.1
				Middle	15.6	26.0 26.0	26.0	35.9 35.9	35.9	99.20 100.70	99.95	6.57 6.67	6.62		1.9 2.0	2.0		1.0 2.8	9.0		17.5 18.5	18.0		88.0 84.0	86.0	
				Bottom	30.3	26.0 26.0	26.0	36.0 36.1	36.0	102.20 102.20	102.20	6.77 6.77	6.77	6.77	2.1 2.2	2.2		2.6 2.0	2.3		15.3 16.0	15.6		85.0 79.5	82.3	
3-Jun-17	Fine	Moderate	7:58	Surface	1	27.0 27.1	27.0	33.5 33.5	33.5	107.70 104.50	106.10	7.11 6.90	7.01	6.75	1.7 1.5	1.6	1.8	3.1 3.9	3.5	4.3	25.9 28.8	27.4	28.3	87.3 93.6	90.4	91.1
				Middle	15.8	26.1 26.1	26.1	35.6 35.6	35.6	97.60 98.60	98.10	6.46 6.53	6.50		1.8 1.8	1.8		3.9 6.1	5.0		27.9 28.4	28.2		104.4 113.3	108.8	
				Bottom	30.7	26.1 26.1	26.1	35.8 35.6	35.7	101.70 101.10	101.40	6.73 6.69	6.71	6.71	2.1 2.0	2.1		4.6 4.0	4.3		28.4 30.1	29.3		72.3 75.7	74.0	

Remark: * DA: Depth-Averaged

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

Water Quality Monitoring Results at E6 - Mid-Flood Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)			Current Velocity (cm/s)			Direction		
						Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
9-May-17	Sunny	Moderate	17:37	Surface	1	25.6 25.9	25.7	33.6 33.5	33.6	112.30 114.80	113.55	7.60 7.73	7.67	7.34	1.5 1.4	1.5	1.5	4.2 5.4	4.8	7.6	11.0 12.1	11.5	19.3	123.5 110.0	116.7	254.8
				Middle	15.0	24.7 24.5	24.6	34.1 34.2	34.2	101.30 102.50	101.90	6.96 7.06	7.01		2.1 2.1	2.1		9.4 6.9	8.2		17.8 20.0	18.9		309.9 325.6	317.7	
				Bottom	29.1	24.2 24.4	24.3	34.3 34.3	34.3	97.90 99.00	98.45	6.72 6.78	6.75	6.75	2.2 2.0	2.1		9.4 10.5	10.0		27.4 27.9	27.6		339.8 319.9	329.8	
11-May-17	Sunny	Moderate	18:43	Surface	1	26.3 26.2	26.2	33.5 33.5	33.5	120.40 118.10	119.25	8.05 7.90	7.98	7.78	1.5 1.6	1.6	1.9	3.4 2.2	2.8	1.8	14.8 14.4	14.6	24.1	137.5 133.6	135.6	114.7
				Middle	15.5	25.3 25.3	25.3	33.7 33.7	33.7	110.00 113.20	111.60	7.47 7.69	7.58		2.1 2.2	2.2		1.1 0.9	1.0		26.2 23.6	24.9		114.3 111.9	113.1	
				Bottom	30.1	25.2 25.3	25.2	33.7 33.7	33.7	108.50 116.10	112.30	7.37 7.89	7.63	7.63	2.1 2.0	2.1		1.3 1.7	1.5		33.0 32.5	32.7		97.1 93.8	95.4	
13-May-17	Cloudy	Moderate	6:34	Surface	1	25.6 25.6	25.6	32.4 32.4	32.4	97.20 97.00	97.10	6.61 6.60	6.61	6.51	1.8 1.8	1.8	2.4	1.2 1.6	1.4	1.4	11.4 10.6	11.0	11.8	250.1 240.7	245.4	199.2
				Middle	15.4	24.2 24.2	24.2	34.6 34.6	34.6	92.70 93.70	93.20	6.37 6.45	6.41		2.8 2.5	2.7		1.4 1.1	1.3		12.1 11.7	11.9		187.8 209.3	198.6	
				Bottom	29.7	24.3 24.3	24.3	34.5 34.5	34.5	90.40 90.10	90.25	6.22 6.20	6.21	6.21	2.7 2.8	2.8		1.2 1.9	1.6		12.6 12.3	12.4		153.7 153.5	153.6	
16-May-17	Cloudy	Moderate	8:10	Surface	1	25.6 25.6	25.6	32.6 32.6	32.6	108.50 108.60	108.55	7.38 7.38	7.38	7.37	1.4 1.4	1.4	1.4	1.0 0.7	0.9	1.6	12.2 13.3	12.8	11.0	170.1 174.4	172.2	182.2
				Middle	15.3	25.6 25.6	25.6	32.6 32.6	32.6	108.00 108.20	108.10	7.35 7.36	7.36		1.4 1.5	1.5		1.1 1.0	1.1		10.6 11.0	10.8		195.0 202.2	198.6	
				Bottom	29.6	25.6 25.6	25.6	32.6 32.6	32.6	108.20 107.10	107.65	7.36 7.28	7.32	7.32	1.5 1.4	1.5		3.1 2.9	3.0		9.8 8.9	9.4		171.3 180.0	175.7	
18-May-17	Cloudy	Moderate	4:43	Surface	1	25.7 25.7	25.7	32.8 32.8	32.8	106.00 105.80	105.90	7.19 7.17	7.18	7.18	1.5 1.5	1.5	1.5	6.0 3.7	4.9	3.7	9.9 9.0	9.5	8.8	103.1 120.0	111.6	109.8
				Middle	15.3	25.7 25.7	25.7	32.8 32.8	32.8	105.70 105.80	105.75	7.17 7.17	7.17		1.5 1.5	1.5		1.8 2.4	2.1		8.8 9.0	8.9		112.1 109.3	110.7	
				Bottom	29.6	25.7 25.7	25.7	32.8 32.8	32.8	105.80 105.50	105.65	7.17 7.16	7.17	7.17	1.5 1.5	1.5		3.0 5.3	4.2		8.4 7.9	8.1		102.9 111.1	107.0	
20-May-17	Cloudy	Rough	12:08	Surface	1	25.5 25.5	25.5	32.9 32.9	32.9	105.30 105.60	105.45	7.16 7.18	7.17	7.16	1.5 1.5	1.5	1.5	2.0 0.9	1.5	1.8	11.1 10.2	10.7	12.0	118.1 110.7	114.4	114.0
				Middle	15.3	25.5 25.5	25.5	32.9 32.9	32.9	105.10 104.90	105.00	7.15 7.13	7.14		1.5 1.5	1.5		1.7 2.2	2.0		14.1 13.7	13.9		106.2 113.1	109.7	
				Bottom	29.5	25.5 25.5	25.5	32.9 32.9	32.9	104.70 104.90	104.80	7.12 7.13	7.13	7.13	1.6 1.6	1.6		1.2 3.0	2.1		11.0 12.2	11.6		120.1 115.4	117.8	
23-May-17	Fine	Rough	15:58	Surface	1	25.5 25.5	25.5	33.5 33.5	33.5	99.80 99.60	99.70	6.76 6.74	6.75	6.65	1.6 1.8	1.7	2.1	2.2 3.9	3.1	4.2	14.6 15.3	15.0	14.2	134.6 129.7	132.1	115.7
				Middle	15.5	25.4 25.4	25.4	33.6 33.6	33.6	96.30 96.60	96.45	6.53 6.55	6.54		2.2 2.4	2.3		3.8 3.0	3.4		17.2 16.3	16.7		125.5 124.8	125.2	
				Bottom	30.0	25.4 25.4	25.4	33.6 33.6	33.6	98.40 97.20	97.80	6.67 6.60	6.64	6.64	2.3 2.2	2.3		6.9 5.6	6.3		10.6 11.5	11.0		88.7 90.7	89.7	
25-May-17	Cloudy	Rough	17:50	Surface	1	25.7 25.7	25.7	32.9 32.9	32.9	98.10 97.70	97.90	6.65 6.62	6.64	6.61	1.9 2.0	2.0	2.0	1.7 1.3	1.5	1.2	20.1 19.5	19.8	19.1	290.3 296.5	293.4	299.6
				Middle	15.5	25.6 25.6	25.6	33.3 33.3	33.3	97.30 97.10	97.20	6.58 6.57	6.58		1.9 2.0	2.0		1.0 1.6	1.3		19.8 19.0	19.4		298.3 295.6	296.9	
				Bottom	30.0	25.6 25.6	25.6	33.4 33.3	33.3	96.40 96.30	96.35	6.53 6.52	6.53	6.53	2.0 2.1	2.1		0.9 0.9	0.9		18.1 17.8	18.0		310.2 306.6	308.4	

Remark: * DA: Depth-Averaged

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

Water Quality Monitoring Results at E6 - Mid-Flood Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)			Current Velocity (cm/s)			Direction		
						Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
27-May-17	Fine	Rough	5:46	Surface	1	25.6 25.6	25.6	33.2 33.2	33.2	94.90 95.20	95.05	6.43 6.45	6.44	6.42	2.1 2.1	2.1	2.1	5.2 5.5	5.4	6.1	10.2 11.1	10.7	13.6	156.9 162.1	159.5	128.0
				Middle	15.5	25.6 25.6	25.6	33.3 33.3	33.3	94.30 94.30	94.30	6.39 6.39	6.39		2.2 2.1	2.2		6.3 5.1	5.7		13.7 14.2	14.0		123.9 120.6	122.3	
				Bottom	30.1	25.6 25.6	25.6	33.3 33.3	33.3	94.90 94.40	94.65	6.43 6.40	6.42	6.42	2.0 2.1	2.1		7.2 7.3	7.3		15.8 16.6	16.2		100.8 103.4	102.1	
30-May-17	Sunny	Moderate	8:36	Surface	1	25.9 25.9	25.9	33.3 33.3	33.3	100.50 100.60	100.55	6.77 6.78	6.78	6.75	1.5 1.4	1.5	1.5	0.9 1.2	1.1	1.1	16.5 16.8	16.6	15.1	119.2 131.5	125.4	187.1
				Middle	15.6	25.9 25.9	25.9	33.3 33.3	33.3	99.90 100.00	99.95	6.73 6.73	6.73		1.6 1.6	1.6		0.7 1.3	1.0		13.4 13.5	13.4		213.4 220.4	216.9	
				Bottom	30.3	25.9 25.9	25.9	33.4 33.4	33.4	100.10 99.70	99.90	6.74 6.71	6.73	6.73	1.6 1.5	1.6		1.3 1.4	1.4		15.0 15.5	15.2		220.7 217.6	219.1	
1-Jun-17	Sunny	Moderate	10:31	Surface	1	26.3 26.3	26.3	35.5 35.5	35.5	102.10 101.60	101.85	6.75 6.71	6.73	6.68	1.8 1.7	1.8	1.8	1.2 1.2	1.2	2.0	9.8 8.6	9.2	13.7	246.7 252.7	249.7	223.4
				Middle	15.4	26.2 26.2	26.2	35.6 35.6	35.6	100.40 99.50	99.95	6.65 6.59	6.62		1.8 1.8	1.8		1.8 3.4	8.2		12.3 14.1	13.2		227.1 230.6	228.9	
				Bottom	29.8	26.0 26.0	26.0	35.8 35.8	35.8	100.70 99.60	100.15	6.67 6.60	6.64	6.64	1.8 1.9	1.9		1.4 3.0	2.2		19.9 17.7	18.8		194.5 188.6	191.5	
3-Jun-17	Sunny	Moderate	13:22	Surface	1	27.0 27.0	27.0	34.0 34.0	34.0	111.90 113.70	112.80	7.37 7.49	7.43	7.36	1.4 1.5	1.5	1.7	5.0 4.2	4.6	3.5	30.6 27.8	29.2	27.3	173.4 163.2	168.3	161.4
				Middle	15.6	26.6 26.6	26.6	34.6 34.5	34.5	110.40 110.00	110.20	7.30 7.27	7.29		1.6 1.6	1.6		3.4 3.5	3.5		27.2 28.9	28.1		146.0 160.0	153.0	
				Bottom	30.3	26.5 26.5	26.5	34.8 34.7	34.7	108.50 111.40	109.95	7.18 7.37	7.28	7.28	1.9 2.0	2.0		2.4 2.4	2.4		23.9 25.5	24.7		155.7 170.1	162.9	

Remark: * DA: Depth-Averaged

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

Water Quality Monitoring Results at E7 - Mid-Ebb Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)			Current Velocity (cm/s)			Direction		
						Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
9-May-17	Sunny	Moderate	12:16	Surface	1	25.1 25.4	25.3	33.6 33.5	33.6	97.10 99.80	98.45	6.61 6.77	6.69	6.42	2.2 2.1	2.2	2.4	3.0 4.5	3.8	4.2	16.9 15.8	16.3	19.1	87.7 86.5	87.1	38.2
				Middle	19.3	24.1 24.0	24.1	34.4 34.4	34.4	90.90 87.10	89.00	6.28 6.02	6.15		2.5 2.5	2.5		3.8 4.1	4.0		18.5 21.1	19.8		14.4 10.8	12.6	
				Bottom	37.7	24.0 24.0	24.0	34.4 34.4	34.4	87.20 85.60	86.40	6.02 5.91	5.97	5.97	2.5 2.5	2.5		5.6 4.3	5.0		21.7 21.0	21.3		15.6 14.4	15.0	
11-May-17	Sunny	Moderate	12:09	Surface	1	25.2 25.2	25.2	33.4 33.4	33.4	100.20 102.40	101.30	6.83 6.98	6.91	6.54	2.0 1.9	2.0	2.7	1.0 1.2	1.1	1.9	20.9 21.2	21.1	20.8	88.8 85.0	86.9	68.8
				Middle	20.2	24.4 24.4	24.4	34.4 34.4	34.4	89.10 90.40	89.75	6.12 6.21	6.17		3.1 3.4	3.3		1.0 1.1	1.1		21.8 22.7	22.2		68.3 67.8	68.0	
				Bottom	39.3	24.4 24.4	24.4	34.4 34.4	34.4	92.90 95.40	94.15	6.38 6.55	6.47	6.47	3.0 2.9	3.0		3.0 4.1	3.6		19.5 18.7	19.1		52.9 50.0	51.4	
13-May-17	Fine	Moderate	13:29	Surface	1	26.0 26.0	26.0	32.1 32.1	32.1	109.60 109.90	109.75	7.42 7.44	7.43	7.32	1.5 1.6	1.6	1.7	3.3 4.3	3.8	4.4	21.5 20.2	20.9	20.0	126.2 126.0	126.1	136.4
				Middle	18.4	25.2 25.4	25.3	33.4 33.2	33.3	108.50 103.10	105.80	7.39 7.02	7.21		1.7 1.7	1.7		4.9 4.9	4.9		18.5 18.9	18.7		147.6 141.6	144.6	
				Bottom	35.8	25.2 25.1	25.1	33.6 33.6	33.6	102.90 101.20	102.05	7.00 6.88	6.94	6.94	1.8 1.8	1.8		3.9 5.1	4.5		20.2 20.7	20.4		142.2 134.8	138.5	
16-May-17	Cloudy	Moderate	14:49	Surface	1	25.6 25.6	25.6	32.7 32.7	32.7	110.90 110.40	110.65	7.54 7.50	7.52	7.50	1.5 1.4	1.5	1.5	<0.5 <0.5	0.5	0.5	19.3 17.9	18.6	20.0	143.5 138.6	141.1	142.5
				Middle	19.5	25.6 25.6	25.6	32.7 32.7	32.7	109.50 110.30	109.90	7.44 7.50	7.47		1.4 1.5	1.5		<0.5 <0.5	0.5		20.3 18.6	19.5		151.1 146.1	148.6	
				Bottom	37.9	25.6 25.6	25.6	32.7 32.7	32.7	107.70 110.10	108.90	7.32 7.49	7.41	7.41	1.5 1.5	1.5		<0.5 <0.5	0.5		22.5 21.1	21.8		134.3 141.1	137.7	
18-May-17	Fine	Moderate	16:34	Surface	1	25.8 25.8	25.8	32.8 32.8	32.8	109.90 110.40	110.15	7.44 7.47	7.46	7.40	1.7 1.7	1.7	1.7	0.9 1.7	1.3	2.7	13.3 15.1	14.2	16.6	98.8 100.6	99.7	96.6
				Middle	20.2	25.7 25.7	25.7	32.8 32.9	32.8	108.50 108.60	108.55	7.35 7.35	7.35		1.8 1.8	1.8		3.3 5.1	4.2		15.8 16.4	16.1		114.7 109.8	112.2	
				Bottom	39.4	25.7 25.7	25.7	32.9 32.9	32.9	108.70 109.20	108.95	7.36 7.40	7.38	7.38	1.7 1.6	1.7		2.2 3.1	2.7		18.7 20.1	19.4		76.7 78.9	77.8	
20-May-17	Cloudy	Rough	7:51	Surface	1	25.5 25.5	25.5	32.9 32.9	32.9	104.80 105.10	104.95	7.13 7.15	7.14	7.13	1.5 1.5	1.5	1.6	2.7 4.3	3.5	3.1	22.2 24.2	23.2	21.3	288.1 290.2	289.1	277.9
				Middle	19.5	25.5 25.4	25.5	32.9 32.9	32.9	104.80 104.60	104.70	7.13 7.12	7.13		1.5 1.6	1.6		2.1 3.4	2.8		26.1 23.9	25.0		266.6 271.7	269.2	
				Bottom	38.0	25.4 25.5	25.4	32.9 32.9	32.9	104.50 104.60	104.55	7.11 7.12	7.12	7.12	1.6 1.6	1.6		2.0 3.8	2.9		15.0 16.7	15.8		274.7 276.3	275.5	
23-May-17	Sunny	Rough	9:41	Surface	1	25.5 25.5	25.5	33.5 33.5	33.5	99.90 99.90	99.90	6.77 6.77	6.77	6.74	1.4 1.4	1.4	1.5	1.3 1.3	1.3	1.0	8.0 8.9	8.4	10.5	139.6 150.1	144.8	156.5
				Middle	19.2	25.4 25.4	25.4	33.7 33.7	33.7	99.00 98.80	98.90	6.71 6.69	6.70		1.5 1.7	1.6		0.6 0.8	0.7		9.7 10.7	10.2		177.6 186.5	182.1	
				Bottom	37.4	25.4 25.4	25.4	33.6 33.7	33.7	99.40 99.00	99.20	6.74 6.71	6.73	6.73	1.5 1.6	1.6		0.8 1.1	1.0		12.3 13.4	12.8		146.1 138.8	142.5	
25-May-17	Sunny	Rough	11:22	Surface	1	25.8 25.8	25.8	32.8 32.7	32.7	96.60 96.60	96.60	6.54 6.54	6.54	6.51	2.7 2.6	2.7	2.7	<0.5 <0.5	0.5	0.6	23.2 23.1	23.2	23.4	100.2 103.4	101.8	106.5
				Middle	19.0	25.6 25.6	25.6	33.6 33.6	33.6	95.80 95.60	95.70	6.48 6.47	6.48		2.7 2.7	2.7		1.1 0.7	0.9		25.6 24.8	25.2		106.4 105.3	105.9	
				Bottom	37.0	25.6 25.6	25.6	33.6 33.5	33.6	94.70 94.50	94.60	6.41 6.39	6.40	6.40	2.7 2.8	2.8		<0.5 <0.5	0.5		22.4 21.4	21.9		110.3 113.5	111.9	

Remark: * DA: Depth-Averaged

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

Water Quality Monitoring Results at E7 - Mid-Ebb Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)			Current Velocity (cm/s)			Direction		
						Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
27-May-17	Sunny	Moderate	13:07	Surface	1	25.8 25.8	25.8	32.8 32.8	32.8	97.90 98.20	98.05	6.63 6.65	6.64	6.68	1.8 1.8	1.8	1.7	4.3 4.1	4.2	3.9	8.9 9.7	9.3	10.8	90.2 94.7	92.4	88.1
				Middle	19.2	25.6 25.6	25.6	32.9 32.9	32.9	99.10 99.00	99.05	6.72 6.72	6.72		1.6 1.7	1.7		3.5 3.5	3.5		13.9 12.8	13.3		105.8 108.9	107.4	
				Bottom	37.5	25.4 25.5	25.5	33.0 33.0	33.0	97.80 98.10	97.95	6.65 6.67	6.66	6.66	1.6 1.6	1.6		4.0 3.9	4.0		10.4 9.2	9.8		63.5 65.5	64.5	
30-May-17	Fine	Moderate	15:59	Surface	1	26.1 26.1	26.1	32.9 32.9	32.9	99.00 98.60	98.80	6.66 6.63	6.65	6.60	1.7 1.6	1.7	1.7	0.9 0.5	0.7	0.7	8.0 8.9	8.4	12.2	136.3 148.5	142.4	135.3
				Middle	19.3	25.9 25.9	25.9	32.9 32.9	32.9	96.90 97.50	97.20	6.54 6.58	6.56		1.7 1.8	1.8		<0.5 <0.5	0.5		12.2 14.1	13.2		150.7 162.1	156.4	
				Bottom	37.6	25.9 25.9	25.9	33.0 33.0	33.0	98.00 96.70	97.35	6.61 6.53	6.57	6.57	1.7 1.8	1.8		0.6 1.2	0.9		14.6 15.3	15.0		100.7 113.7	107.2	
1-Jun-17	Fine	Moderate	17:56	Surface	1	26.4 26.4	26.4	35.6 35.6	35.6	105.40 104.40	104.90	6.95 6.88	6.92	6.76	1.9 1.9	1.9	2.1	1.5 3.0	2.3	1.7	13.2 15.0	14.1	13.3	155.7 147.7	151.7	147.2
				Middle	19.5	26.0 26.0	26.0	35.9 36.0	35.9	100.00 99.60	99.80	6.62 6.60	6.61		2.0 2.1	2.1		1.5 2.0	4.0		9.9 10.8	10.4		163.3 156.6	159.9	
				Bottom	38.1	26.0 26.0	26.0	36.1 36.1	36.1	101.80 102.50	102.15	6.74 6.79	6.77	6.77	2.4 2.2	2.3		1.0 1.1	1.1		14.7 15.9	15.3		128.8 131.3	130.0	
3-Jun-17	Fine	Moderate	7:42	Surface	1	27.0 27.1	27.0	33.6 33.5	33.5	105.10 105.40	105.25	6.94 6.95	6.95	6.72	1.6 1.5	1.6	1.7	1.5 2.4	2.0	2.8	23.5 21.0	22.2	22.1	80.8 74.3	77.6	75.2
				Middle	19.3	26.1 26.1	26.1	35.6 35.6	35.6	97.90 97.90	97.90	6.48 6.49	6.49		1.8 1.6	1.7		4.5 2.6	3.6		21.8 22.9	22.4		68.2 89.0	78.6	
				Bottom	37.7	26.1 26.2	26.1	35.6 35.8	35.7	100.50 103.90	102.20	6.66 6.87	6.77	6.77	1.7 1.8	1.8		2.4 3.5	3.0		20.9 22.6	21.7		72.2 66.6	69.4	

Remark: * DA: Depth-Averaged

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

Water Quality Monitoring Results at E7 - Mid-Flood Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (^{o}C)		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)			Current Velocity (cm/s)			Direction		
						Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
9-May-17	Sunny	Moderate	17:45	Surface	1	25.3 25.2	25.2	33.8 33.8	33.8	102.40 102.20	102.30	6.95 6.95	6.95	6.64	2.1 2.1	2.1	2.8	6.1 6.7	6.4	6.2	15.9 15.3	15.6	14.4	159.8 151.0	155.4	133.4
				Middle	19.2	24.5 24.4	24.5	34.4 34.4	34.4	91.40 93.30	92.35	6.26 6.41	6.34		3.3 3.1	3.2		6.3 5.3	5.8		14.0 14.7	14.4		103.1 94.5	98.8	
				Bottom	37.4	24.4 24.5	24.4	34.4 34.4	34.4	91.10 91.00	91.05	6.25 6.24	6.25	6.25	3.1 3.0	3.1		6.4 6.5	6.5		14.2 12.5	13.4		143.8 148.0	145.9	
11-May-17	Sunny	Moderate	18:52	Surface	1	26.1 26.1	26.1	33.3 33.3	33.3	125.80 124.60	125.20	8.45 8.37	8.41	8.17	1.7 1.5	1.6	1.6	0.8 <0.5	0.7	1.9	21.7 20.1	20.9	27.6	65.1 63.0	64.1	61.1
				Middle	20.0	25.6 25.5	25.5	33.6 33.6	33.6	119.30 115.20	117.25	8.07 7.80	7.94		1.5 1.6	1.6		1.3 1.8	1.6		38.8 38.5	38.7		72.6 78.9	75.7	
				Bottom	39.1	25.3 25.4	25.4	33.6 33.6	33.6	112.10 121.50	116.80	7.61 8.24	7.93	7.93	1.5 1.5	1.5		4.4 2.5	3.5		24.0 22.2	23.1		42.4 44.3	43.4	
13-May-17	Cloudy	Moderate	6:27	Surface	1	25.7 25.6	25.6	32.3 32.4	32.3	98.30 97.20	97.75	6.69 6.64	6.67	6.62	1.8 1.9	1.9	2.3	2.6 2.4	2.5	2.7	20.4 20.7	20.6	14.3	153.0 150.8	151.9	162.4
				Middle	19.3	24.5 24.4	24.4	34.2 34.4	34.3	96.90 95.20	96.05	6.62 6.54	6.58		2.4 2.5	2.5		2.2 2.1	2.2		11.1 10.1	10.6		167.4 170.8	169.1	
				Bottom	37.6	24.4 24.6	24.5	34.4 34.1	34.2	90.20 92.00	91.10	6.20 6.31	6.26	6.26	2.5 2.5	2.5		3.0 4.0	3.5		11.4 11.9	11.6		162.6 169.8	166.2	
16-May-17	Cloudy	Moderate	7:54	Surface	1	25.6 25.6	25.6	32.5 32.5	32.5	108.10 108.80	108.45	7.35 7.40	7.38	7.32	1.6 1.5	1.6	1.6	1.7 1.9	1.8	3.3	16.3 15.7	16.0	13.5	142.6 150.3	146.5	152.6
				Middle	19.5	25.6 25.6	25.6	32.6 32.6	32.6	106.70 107.00	106.85	7.26 7.28	7.27		1.7 1.5	1.6		4.6 5.7	5.2		14.4 12.9	13.7		156.6 170.2	163.4	
				Bottom	38.1	25.5 25.5	25.5	32.8 32.8	32.8	106.60 106.60	106.60	7.25 7.25	7.25	7.25	1.7 1.6	1.7		3.3 2.7	3.0		10.4 11.1	10.8		144.6 151.2	147.9	
18-May-17	Cloudy	Moderate	4:30	Surface	1	25.7 25.7	25.7	32.8 32.8	32.8	106.70 106.60	106.65	7.23 7.23	7.23	7.23	1.4 1.4	1.4	1.4	3.0 5.3	4.2	4.6	13.4 14.1	13.8	12.5	156.5 160.4	158.4	162.6
				Middle	19.5	25.7 25.7	25.7	32.8 32.8	32.8	106.50 106.40	106.45	7.22 7.22	7.22		1.4 1.4	1.4		1.2 2.7	2.0		12.1 12.4	12.3		163.5 171.3	167.4	
				Bottom	38.1	25.7 25.7	25.7	32.8 32.8	32.8	106.30 106.40	106.35	7.21 7.21	7.21	7.21	1.4 1.4	1.4		8.4 6.7	7.6		11.2 12.0	11.6		158.2 165.9	162.0	
20-May-17	Cloudy	Rough	12:20	Surface	1	25.5 25.5	25.5	32.9 32.9	32.9	105.40 105.40	105.40	7.17 7.16	7.17	7.15	1.5 1.4	1.5	1.5	4.1 3.0	3.6	3.3	15.4 16.3	15.8	16.1	134.1 140.7	137.4	144.2
				Middle	19.5	25.5 25.5	25.5	32.9 32.9	32.9	104.90 104.90	104.90	7.13 7.14	7.14		1.5 1.4	1.5		3.5 4.6	4.1		14.9 15.0	15.0		160.6 157.8	159.2	
				Bottom	37.9	25.5 25.5	25.5	32.9 32.9	32.9	104.90 104.80	104.85	7.13 7.13	7.13	7.13	1.5 1.5	1.5		1.5 2.9	2.2		17.2 18.0	17.6		140.3 131.5	135.9	
23-May-17	Fine	Rough	16:12	Surface	1	25.5 25.5	25.5	33.5 33.5	33.5	98.60 99.40	99.00	6.68 6.73	6.71	6.63	2.0 1.9	2.0	2.2	2.6 3.3	3.0	3.4	14.7 13.7	14.2	13.5	70.9 71.6	71.3	71.7
				Middle	19.1	25.4 25.4	25.4	33.6 33.6	33.6	96.80 96.70	96.75	6.56 6.56	6.56		2.4 2.4	2.4		3.2 3.3	3.3		12.3 11.2	11.7		79.6 83.4	81.5	
				Bottom	37.2	25.4 25.4	25.4	33.6 33.6	33.6	97.40 98.00	97.70	6.61 6.65	6.63	6.63	2.3 2.4	2.4		3.4 4.8	4.1		15.5 14.0	14.7		60.9 63.7	62.3	
25-May-17	Cloudy	Rough	18:00	Surface	1	25.7 25.7	25.7	32.9 32.9	32.9	97.70 97.50	97.60	6.62 6.61	6.62	6.59	2.1 1.9	2.0	2.1	<0.5 <0.5	0.5	0.6	18.4 17.5	18.0	17.3	304.1 303.5	303.8	307.5
				Middle	19.5	25.6 25.6	25.6	33.3 33.3	33.3	96.90 97.20	97.05	6.55 6.58	6.57		2.1 2.1	2.1		<0.5 <0.5	0.5		16.3 17.0	16.6		311.5 317.7	314.6	
				Bottom	37.9	25.6 25.6	25.6	33.4 33.5	33.4	96.40 96.30	96.35	6.53 6.52	6.53	6.53	2.1 2.3	2.2		<0.5 0.8	0.7		17.5 17.3	17.4		305.8 302.5	304.1	

Remark: * DA: Depth-Averaged

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

Water Quality Monitoring Results at E7 - Mid-Flood Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)			Current Velocity (cm/s)			Direction		
						Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
27-May-17	Fine	Rough	5:32	Surface	1	25.6 25.6	25.6	33.2 33.2	33.2	95.90 97.10	96.50	6.50 6.58	6.54	6.51	1.9 1.8	1.9	2.0	3.3 3.4	3.4	4.5	20.4 18.7	19.6	15.8	94.4 100.7	97.6	77.0
				Middle	19.3	25.6 25.6	25.6	33.2 33.2	33.2	95.30 95.60	95.45	6.46 6.48	6.47		2.1 2.0	2.1		3.8 3.1	3.5		14.0 12.9	13.4		59.7 63.5	61.6	
				Bottom	37.7	25.5 25.5	25.5	33.2 33.2	33.2	95.90 95.50	95.70	6.50 6.47	6.49	6.49	2.1 2.0	2.1		6.8 6.3	6.6		15.6 13.1	14.3		70.8 72.5	71.7	
30-May-17	Sunny	Moderate	8:21	Surface	1	26.0 26.0	26.0	33.5 33.5	33.5	100.60 100.50	100.55	6.75 6.75	6.75	6.73	1.3 1.4	1.4	1.3	0.9 0.5	0.7	0.9	15.2 16.4	15.8	13.7	166.3 170.8	168.5	149.9
				Middle	19.2	25.9 25.9	25.9	33.4 33.4	33.4	99.50 99.70	99.60	6.70 6.71	6.71		1.4 1.3	1.4		0.8 1.4	1.1		10.8 11.2	11.0		127.9 131.7	129.8	
				Bottom	37.3	25.9 25.9	25.9	33.4 33.4	33.4	99.80 99.70	99.75	6.72 6.71	6.72	6.72	1.3 1.3	1.3		0.7 0.9	0.8		13.9 14.4	14.2		150.6 152.2	151.4	
1-Jun-17	Sunny	Moderate	10:17	Surface	1	26.3 26.3	26.3	35.5 35.5	35.5	103.10 102.80	102.95	6.82 6.79	6.81	6.72	1.8 1.8	1.8	1.8	<0.5 0.8	0.7	0.7	12.6 11.8	12.2	12.0	259.9 266.8	263.4	253.6
				Middle	19.4	26.2 26.2	26.2	35.6 35.6	35.6	100.10 100.50	100.30	6.63 6.65	6.64		1.8 1.8	1.8		0.7 <0.5	5.8		14.8 13.7	14.3		276.6 256.0	266.3	
				Bottom	37.8	26.0 26.0	26.0	35.9 35.8	35.9	101.10 101.50	101.30	6.70 6.73	6.72	6.72	2.0 1.8	1.9		1.0 0.6	0.8		10.0 9.2	9.6		225.4 236.6	231.0	
3-Jun-17	Sunny	Moderate	13:36	Surface	1	27.0 27.1	27.0	33.5 33.4	33.5	105.40 107.40	106.40	6.96 7.09	7.03	6.83	1.6 1.5	1.6	1.7	3.7 3.9	3.8	4.3	20.1 18.2	19.1	19.8	192.2 183.3	187.8	170.4
				Middle	19.2	26.5 26.3	26.4	34.5 35.1	34.8	99.30 100.80	100.05	6.58 6.68	6.63		1.5 1.7	1.6		5.6 6.6	6.1		19.7 16.7	18.2		175.6 168.6	172.1	
				Bottom	37.3	26.4 26.1	26.2	35.4 35.8	35.6	106.50 97.10	101.80	7.03 6.43	6.73	6.73	1.9 1.7	1.8		3.6 2.6	3.1		23.1 21.2	22.2		148.9 153.6	151.3	

Remark: * DA: Depth-Averaged

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

Water Quality Monitoring Results at B1 - Mid-Ebb Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)			Current Velocity (cm/s)			Direction		
						Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
9-May-17	Sunny	Moderate	10:54	Surface	1	25.2 25.2	25.2	33.3 33.3	33.3	106.30 107.00	106.65	7.25 7.29	7.27	7.05	2.1 2.1	2.1	2.1	3.1 3.6	3.4	3.4	12.9 12.1	12.5	16.3	86.7 82.0	84.4	80.9
				Middle	4.0	24.5 24.5	24.5	33.4 33.4	33.4	99.90 97.80	98.85	6.90 6.74	6.82		2.3 2.4	2.4		3.6 3.1	3.4		18.6 19.2	18.9		73.1 78.0	75.6	
				Bottom	6.9	24.4 24.4	24.4	33.5 33.5	33.5	98.60 97.30	97.95	6.79 6.72	6.76	6.76	2.3 2.5	2.4		3.0 2.4	2.7		17.6 17.5	17.6		80.2 85.3	82.7	
11-May-17	Sunny	Moderate	10:51	Surface	1	25.5 25.4	25.4	33.1 33.2	33.2	107.10 105.50	106.30	7.27 7.17	7.22	7.18	1.5 1.6	1.6	1.6	0.7 1.2	1.0	1.3	21.1 21.8	21.5	22.4	233.6 221.2	227.4	200.0
				Middle	5.2	25.1 25.1	25.1	33.1 33.2	33.1	105.70 103.20	104.45	7.22 7.05	7.14		1.5 1.6	1.6		0.9 <0.5	0.7		25.9 24.7	25.3		133.3 130.0	131.6	
				Bottom	9.4	25.1 25.1	25.1	33.2 33.2	33.2	100.90 105.70	103.30	6.89 7.22	7.06	7.06	1.8 1.6	1.7		2.1 2.5	2.3		19.7 20.9	20.3		251.4 230.7	241.1	
13-May-17	Fine	Moderate	14:41	Surface	1	25.3 25.3	25.3	33.3 33.3	33.3	103.10 102.90	103.00	7.02 7.00	7.01	6.97	1.7 1.7	1.7	1.7	2.3 3.7	3.0	5.2	11.7 11.4	11.5	11.2	45.5 46.0	45.8	35.7
				Middle	4.0	25.1 25.1	25.1	33.4 33.3	33.4	100.70 102.30	101.50	6.88 6.98	6.93		1.7 1.7	1.7		6.7 6.2	6.5		13.4 14.3	13.8		19.8 47.7	33.7	
				Bottom	7.0	25.1 25.1	25.1	33.5 33.5	33.5	101.50 100.50	101.00	6.93 6.86	6.90	6.90	1.7 1.9	1.8		6.1 6.4	6.3		7.7 8.9	8.3		28.2 26.8	27.5	
16-May-17	Cloudy	Moderate	16:09	Surface	1	25.4 25.4	25.4	32.8 32.8	32.8	102.90 104.10	103.50	7.01 7.10	7.06	6.98	1.6 1.6	1.6	1.6	0.9 1.5	1.2	1.1	6.9 8.0	7.4	8.0	43.4 47.2	45.3	42.7
				Middle	4.0	25.3 25.3	25.3	32.9 32.9	32.9	100.40 101.90	101.15	6.84 6.95	6.90		1.6 1.6	1.6		1.3 0.8	1.1		10.1 10.0	10.1		50.6 51.1	50.8	
				Bottom	7.0	25.3 25.3	25.3	33.0 33.0	33.0	100.80 100.10	100.45	6.88 6.83	6.86	6.86	1.6 1.6	1.6		0.9 1.0	1.0		6.1 7.0	6.6		30.2 33.6	31.9	
18-May-17	Fine	Moderate	17:43	Surface	1	25.8 25.8	25.8	32.8 32.8	32.8	112.40 112.30	112.35	7.61 7.60	7.61	7.58	1.7 1.7	1.7	1.7	8.8 6.6	7.7	8.3	8.6 9.2	8.9	8.9	99.6 104.8	102.2	107.2
				Middle	5.3	25.8 25.8	25.8	32.8 32.8	32.8	111.60 111.80	111.70	7.55 7.57	7.56		1.9 1.7	1.8		9.7 8.6	9.2		9.6 10.1	9.8		133.1 121.6	127.3	
				Bottom	9.5	25.7 25.8	25.7	32.8 32.8	32.8	111.50 111.70	111.60	7.55 7.56	7.56	7.56	1.7 1.7	1.7		6.7 9.3	8.0		7.7 8.2	8.0		90.9 93.3	92.1	
20-May-17	Cloudy	Rough	6:29	Surface	1	25.5 25.5	25.5	32.9 32.9	32.9	104.80 104.50	104.65	7.13 7.10	7.12	7.10	1.4 1.4	1.4	1.5	1.6 0.9	1.3	2.4	7.0 6.8	6.9	8.0	54.4 60.6	57.5	55.1
				Middle	4.0	25.5 25.5	25.5	32.9 32.9	32.9	104.10 104.20	104.15	7.07 7.08	7.08		1.5 1.4	1.5		2.9 2.0	2.5		8.1 9.1	8.6		67.9 66.9	67.4	
				Bottom	7.1	25.5 25.5	25.5	32.9 32.9	32.9	104.00 103.90	103.95	7.07 7.06	7.07	7.07	1.5 1.6	1.6		3.0 3.9	3.5		9.0 8.0	8.5		41.1 39.9	40.5	
23-May-17	Sunny	Rough	8:22	Surface	1	25.3 25.3	25.3	33.2 33.2	33.2	97.80 97.50	97.65	6.66 6.64	6.65	6.64	1.4 1.5	1.5	1.4	1.5 1.6	1.6	1.3	10.0 10.2	10.1	11.5	138.0 145.7	141.8	148.4
				Middle	4.1	25.4 25.4	25.4	33.3 33.3	33.3	97.40 97.80	97.60	6.62 6.64	6.63		1.4 1.4	1.4		1.5 1.5	1.5		10.9 8.7	9.8		203.6 235.6	219.6	
				Bottom	7.3	25.4 25.4	25.4	33.4 33.4	33.4	97.40 97.00	97.20	6.61 6.58	6.60	6.60	1.4 1.5	1.5		0.8 0.8	0.8		15.1 14.3	14.7		87.5 80.1	83.8	
25-May-17	Sunny	Rough	10:15	Surface	1	25.6 25.6	25.6	32.3 32.3	32.3	96.60 96.70	96.65	6.58 6.58	6.58	6.58	1.7 1.7	1.7	1.8	<0.5 <0.5	0.5	0.5	10.2 10.1	10.2	10.5	70.2 69.2	69.7	66.4
				Middle	4.0	25.5 25.5	25.5	32.4 32.4	32.4	96.40 96.60	96.50	6.57 6.58	6.58		1.7 1.8	1.8		<0.5 0.6	0.6		10.9 10.6	10.7		68.1 64.6	66.3	
				Bottom	7.0	25.5 25.4	25.5	32.5 32.6	32.5	96.00 95.90	95.95	6.54 6.54	6.54	6.54	1.8 1.8	1.8		<0.5 <0.5	0.5		10.5 10.6	10.6		65.1 61.1	63.1	

Remark: * DA: Depth-Averaged

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

Water Quality Monitoring Results at B1 - Mid-Ebb Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)			Current Velocity (cm/s)			Direction		
						Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
27-May-17	Sunny	Moderate	14:36	Surface	1	25.8 25.8	25.8	32.7 32.7	32.7	88.50 90.40	89.45	5.99 6.13	6.06	6.10	2.1 2.2	2.2	2.4	4.0 4.5	4.3	4.9	8.9 9.0	9.0	10.8	275.8 286.7	281.3	229.4
				Middle	4.2	25.5 25.5	25.5	32.9 32.9	32.9	92.10 88.50	90.30	6.26 6.01	6.14		2.6 2.4	2.5		6.4 4.3	5.4		12.4 12.7	12.5		146.7 157.7	152.2	
				Bottom	7.4	25.6 25.5	25.6	32.9 33.0	32.9	88.90 95.80	92.35	6.03 6.51	6.27	6.27	2.4 2.6	2.5		5.8 4.6	5.2		10.5 11.6	11.0		251.9 257.8	254.9	
30-May-17	Fine	Moderate	17:15	Surface	1	26.0 26.0	26.0	32.9 32.8	32.8	97.10 97.40	97.25	6.55 6.57	6.56	6.54	1.8 1.7	1.8	1.9	1.6 1.2	1.4	1.1	19.2 20.2	19.7	15.8	51.1 57.8	54.5	44.2
				Middle	4.1	25.9 25.9	25.9	33.0 33.0	33.0	96.30 96.70	96.50	6.50 6.53	6.52		1.9 1.7	1.8		0.9 1.0	1.0		15.3 16.0	15.7		43.9 47.7	45.8	
				Bottom	7.2	25.8 25.8	25.8	33.2 33.2	33.2	96.30 96.60	96.45	6.50 6.52	6.51	6.51	2.2 2.0	2.1		1.0 1.1	1.1		11.7 12.2	12.0		30.2 34.2	32.2	
1-Jun-17	Fine	Moderate	19:06	Surface	1	26.3 26.3	26.3	35.7 35.6	35.7	101.10 102.20	101.65	6.68 6.75	6.72	6.67	1.8 1.8	1.8	1.8	1.9 1.0	1.5	1.8	13.4 14.7	14.0	15.5	50.1 44.9	47.5	49.9
				Middle	4.1	26.0 26.0	26.0	35.8 35.8	35.8	100.30 99.60	99.95	6.65 6.60	6.63		1.9 1.9	1.9		2.0 2.4	3.4		19.2 17.0	18.1		38.6 40.2	39.4	
				Bottom	7.3	26.0 25.9	26.0	35.9 35.9	35.9	101.70 99.70	100.70	6.74 6.61	6.68	6.68	1.8 1.8	1.8		2.3 1.1	1.7		13.3 15.5	14.4		62.2 63.6	62.9	
3-Jun-17	Fine	Moderate	6:24	Surface	1	26.9 26.8	26.8	34.0 34.1	34.0	102.20 101.00	101.60	6.75 6.67	6.71	6.67	1.6 1.6	1.6	1.7	4.6 6.9	5.8	6.1	18.7 20.4	19.6	17.0	76.3 80.5	78.4	54.2
				Middle	4.1	26.4 26.4	26.4	34.7 34.7	34.7	99.90 100.40	100.15	6.62 6.65	6.64		1.7 1.6	1.7		5.0 7.4	6.2		19.5 20.9	20.2		55.9 59.6	57.7	
				Bottom	7.3	26.3 26.3	26.3	35.2 35.3	35.2	100.90 101.20	101.05	6.67 6.70	6.69	6.69	1.8 1.7	1.8		6.2 6.7	6.5		11.7 11.0	11.3		29.2 23.8	26.5	

Remark: * DA: Depth-Averaged

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

Water Quality Monitoring Results at B1 - Mid-Flood Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (^{o}C)		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)			Current Velocity (cm/s)			Direction		
						Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
9-May-17	Sunny	Moderate	18:49	Surface	1	25.6 25.7	25.7	34.0 33.3	33.7	133.70 132.30	133.00	9.01 8.93	8.97	8.75	1.7 1.6	1.7	1.7	3.6 3.6	3.6	3.8	18.3 20.1	19.2	16.9	182.7 182.1	182.4	173.8
				Middle	4.0	25.2 25.4	25.3	33.3 33.3	33.3	123.70 126.70	125.20	8.44 8.61	8.53		2.1 2.1	2.1		3.8 4.5	4.2		18.5 17.9	18.2		178.7 181.9	180.3	
				Bottom	6.7	25.2 25.2	25.2	33.3 33.3	33.3	125.90 123.40	124.65	8.59 8.41	8.50		2.2 2.2	2.2		3.8 3.2	3.5		14.2 12.7	13.5		149.5 168.1	158.8	
11-May-17	Sunny	Moderate	19:57	Surface	1	25.2 25.4	25.3	33.5 33.4	33.5	101.30 103.80	102.55	6.89 7.04	6.97	6.87	1.9 1.7	1.8	1.8	<0.5 0.8	0.7	0.9	17.0 17.1	17.1	16.8	22.2 24.1	23.1	47.3
				Middle	5.1	24.8 24.8	24.8	33.5 33.5	33.5	99.10 98.70	98.90	6.79 6.77	6.78		2.2 2.0	2.1		0.7 1.6	1.2		18.9 18.7	18.8		47.0 46.1	46.5	
				Bottom	9.1	24.8 24.8	24.8	33.5 33.5	33.5	99.40 100.40	99.90	6.82 6.88	6.85	6.85	2.0 1.9	2.0		0.7 1.1	0.9		16.9 12.5	14.7		72.1 72.6	72.4	
13-May-17	Cloudy	Moderate	5:12	Surface	1	25.0 25.0	25.0	33.3 33.3	33.3	92.20 92.20	92.20	6.33 6.31	6.32	6.29	1.8 1.8	1.8	1.8	4.3 4.5	4.4	4.3	8.1 9.5	8.8	9.3	219.1 235.3	227.2	183.3
				Middle	4.3	24.7 24.7	24.7	33.9 33.9	33.9	91.50 91.40	91.45	6.26 6.26	6.26		1.9 1.8	1.9		3.8 3.9	3.9		7.4 8.4	7.9		187.0 182.2	184.6	
				Bottom	7.4	24.8 24.5	24.6	33.7 34.1	33.9	91.00 90.60	90.80	6.23 6.21	6.22	6.22	1.8 1.9	1.9		4.0 5.2	4.6		12.2 10.3	11.2		145.7 130.6	138.1	
16-May-17	Cloudy	Moderate	6:31	Surface	1	25.4 25.5	25.5	32.6 32.6	32.6	98.90 99.00	98.95	6.74 6.75	6.75	6.71	1.5 1.5	1.5	1.5	1.5 1.3	1.4	2.7	6.7 7.4	7.0	7.9	241.1 232.5	236.8	200.5
				Middle	4.1	25.3 25.3	25.3	33.0 33.0	33.0	98.20 97.60	97.90	6.69 6.65	6.67		1.5 1.5	1.5		3.5 3.0	3.3		5.9 6.3	6.1		201.7 208.2	204.9	
				Bottom	7.0	25.2 25.2	25.2	33.5 33.5	33.5	97.10 96.30	96.70	6.62 6.56	6.59	6.59	1.6 1.6	1.6		2.8 4.3	3.6		10.0 11.1	10.6		161.4 158.3	159.8	
18-May-17	Cloudy	Moderate	2:56	Surface	1	25.7 25.6	25.6	32.8 32.8	32.8	104.30 104.40	104.35	7.07 7.08	7.08	7.07	1.5 1.5	1.5	1.5	3.2 2.8	3.0	4.0	6.2 6.0	6.1	6.8	198.7 202.1	200.4	210.3
				Middle	4.1	25.6 25.6	25.6	32.8 32.8	32.8	104.00 104.00	104.00	7.06 7.06	7.06		1.5 1.6	1.6		3.3 3.4	3.4		5.1 6.0	5.6		241.3 230.7	236.0	
				Bottom	7.0	25.6 25.6	25.6	32.8 32.8	32.8	103.80 103.80	103.80	7.04 7.04	7.04	7.04	1.6 1.5	1.6		4.7 6.4	5.6		8.6 9.1	8.9		188.8 200.3	194.6	
20-May-17	Cloudy	Rough	13:30	Surface	1	25.5 25.5	25.5	32.9 32.9	32.9	105.80 105.80	105.80	7.19 7.20	7.20	7.19	1.5 1.5	1.5	1.5	4.6 6.6	5.6	3.9	10.0 10.4	10.2	8.4	174.3 180.2	177.3	187.5
				Middle	4.1	25.5 25.5	25.5	32.9 32.9	32.9	105.50 105.70	105.60	7.18 7.19	7.19		1.5 1.5	1.5		4.3 3.9	4.1		6.9 7.7	7.3		190.2 183.4	186.8	
				Bottom	7.0	25.5 25.5	25.5	32.9 32.9	32.9	105.40 105.60	105.50	7.17 7.18	7.18	7.18	1.5 1.5	1.5		2.4 1.3	1.9		8.0 7.4	7.7		201.2 195.9	198.6	
23-May-17	Fine	Rough	17:28	Surface	1	25.4 25.4	25.4	32.9 32.8	32.8	94.60 94.30	94.45	6.44 6.42	6.43	6.45	1.8 1.9	1.9	1.8	1.6 1.3	1.5	2.2	7.7 8.0	7.9	7.9	26.0 27.7	26.8	52.3
				Middle	4.3	25.3 25.3	25.3	33.0 33.0	33.0	94.80 95.00	94.90	6.46 6.48	6.47		1.8 1.8	1.8		1.4 1.8	1.6		5.9 6.2	6.0		60.5 56.8	58.6	
				Bottom	7.3	25.3 25.3	25.3	33.1 33.1	33.1	94.20 94.70	94.45	6.41 6.44	6.43	6.43	1.7 1.6	1.7		3.3 3.5	3.4		9.5 10.0	9.7		70.8 72.2	71.5	
25-May-17	Cloudy	Rough	19:12	Surface	1	25.7 25.7	25.7	32.3 32.3	32.3	95.60 97.30	96.45	6.50 6.63	6.57	6.55	1.7 1.7	1.7	1.7	1.0 0.7	0.9	1.0	10.2 10.8	10.5	10.4	30.6 29.8	30.2	32.0
				Middle	4.2	25.5 25.5	25.5	32.4 32.4	32.4	96.40 95.40	95.90	6.57 6.50	6.54		1.7 1.7	1.7		0.6 1.0	0.8		10.4 10.2	10.3		30.5 31.0	30.8	
				Bottom	7.3	25.6 25.5	25.5	32.4 32.4	32.4	95.00 96.00	95.50	6.47 6.53	6.50	6.50	1.7 1.9	1.8		1.5 1.0	1.3		10.2 10.4	10.3		35.9 33.9	34.9	

Remark: * DA: Depth-Averaged

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

Water Quality Monitoring Results at B1 - Mid-Flood Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (^{o}C)		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)			Current Velocity (cm/s)			Direction		
						Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
27-May-17	Fine	Rough	4:13	Surface	1	25.6 25.6	25.6	32.8 32.8	32.8	97.30 96.80	97.05	6.61 6.58	6.60	6.60	1.7 1.8	1.8	1.7	5.6 3.7	4.7	6.4	13.4 12.7	13.1	10.5	32.3 30.9	31.6	57.6
				Middle	4.2	25.5 25.5	25.5	32.9 32.9	32.9	97.50 97.00	97.25	6.62 6.60	6.61		1.7 1.7	1.7		4.3 4.1	4.2		11.0 9.4	10.2		63.6 60.9	62.2	
				Bottom	7.4	25.5 25.4	25.4	32.9 32.9	32.9	96.90 98.50	97.70	6.59 6.70	6.65	6.65	1.6 1.5	1.6		10.9 9.7	10.3		8.8 7.7	8.2		77.9 79.9	78.9	
30-May-17	Sunny	Moderate	7:05	Surface	1	26.0 26.0	26.0	33.2 33.2	33.2	98.30 98.10	98.20	6.62 6.61	6.62	6.58	1.5 1.5	1.5	1.6	1.2 0.7	1.0	0.9	20.1 20.8	20.4	18.4	200.4 219.6	210.0	194.8
				Middle	4.3	25.8 25.8	25.8	33.2 33.2	33.2	97.00 96.90	96.95	6.55 6.54	6.55		1.7 1.6	1.7		0.5 0.7	0.6		15.5 14.9	15.2		173.3 168.9	171.1	
				Bottom	7.3	25.8 25.8	25.8	33.2 33.3	33.2	97.20 97.20	97.20	6.57 6.56	6.57	6.57	1.8 1.7	1.8		1.0 1.1	1.1		19.9 19.4	19.6		199.9 206.7	203.3	
1-Jun-17	Sunny	Moderate	9:06	Surface	1	26.4 26.4	26.4	35.0 35.0	35.0	101.70 100.90	101.30	6.73 6.67	6.70	6.65	1.9 1.9	1.9	1.9	1.9 2.9	2.4	1.8	22.5 22.7	22.6	20.2	163.4 169.9	166.6	193.3
				Middle	4.1	26.0 26.0	26.0	35.6 35.7	35.6	99.40 99.50	99.45	6.59 6.60	6.60		1.9 1.9	1.9		2.7 1.3	4.2		20.0 20.9	20.4		216.7 220.7	218.7	
				Bottom	7.1	26.0 26.1	26.1	35.7 35.6	35.7	99.40 100.90	100.15	6.59 6.68	6.64	6.64	1.9 2.0	2.0		1.3 0.8	1.1		17.9 17.1	17.5		188.6 200.6	194.6	
3-Jun-17	Sunny	Moderate	14:57	Surface	1	27.0 26.8	26.9	33.6 33.7	33.7	108.10 103.30	105.70	7.14 6.84	6.99	6.91	1.7 1.6	1.7	1.7	4.8 2.9	3.9	3.5	17.7 18.5	18.1	19.8	159.9 166.3	163.1	181.4
				Middle	4.2	26.3 26.5	26.4	35.2 34.2	34.7	101.20 104.70	102.95	6.70 6.95	6.83		1.6 1.7	1.7		4.1 2.6	3.4		22.4 23.5	23.0		176.9 180.3	178.6	
				Bottom	7.4	26.3 26.0	26.2	35.7 35.9	35.8	106.50 104.30	105.40	7.03 6.91	6.97	6.97	1.7 1.9	1.8		3.7 2.7	3.2		18.4 18.2	18.3		200.1 204.7	202.4	

Remark: * DA: Depth-Averaged

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

Water Quality Monitoring Results at G1 - Mid-Ebb Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)			Current Velocity (cm/s)			Direction		
						Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
9-May-17	Sunny	Moderate	13:01	Surface	1	25.2 25.2	25.2	33.6 33.6	33.6	106.30 104.30	105.30	7.23 7.10	7.17	6.86	1.7 1.6	1.7	2.0	1.7 0.6	1.2	3.2	14.0 11.5	12.7	14.5	100.9 99.8	100.3	78.1
				Middle	13.1	24.2 24.2	24.2	34.2 34.3	34.2	95.80 94.10	94.95	6.61 6.49	6.55		2.2 2.1	2.2		1.3 1.9	1.6		14.3 13.7	14.0		69.1 65.0	67.0	
				Bottom	25.1	24.2 24.2	24.2	34.3 34.3	34.3	90.70 92.80	91.75	6.25 6.40	6.33	6.33	2.1 2.2	2.2		7.1 6.3	6.7		16.7 17.0	16.8		68.2 65.6	66.9	
11-May-17	Sunny	Moderate	12:50	Surface	1	25.6 25.6	25.6	33.5 33.6	33.6	111.70 111.80	111.75	7.55 7.56	7.56	7.27	1.5 1.5	1.5	1.9	1.0 2.0	1.5	1.2	29.5 31.1	30.3	32.6	63.5 65.2	64.4	63.5
				Middle	12.6	24.9 25.0	24.9	33.8 33.7	33.7	102.40 102.10	102.25	7.00 6.97	6.99		1.9 1.9	1.9		1.0 1.7	1.4		33.9 33.9	33.9		60.6 65.9	63.2	
				Bottom	24.2	24.7 24.8	24.8	33.9 33.9	33.9	103.20 101.00	102.10	7.06 6.91	6.99	6.99	2.1 2.2	2.2		0.8 0.9	0.9		35.2 32.2	33.7		63.6 62.2	62.9	
13-May-17	Fine	Moderate	12:47	Surface	1	25.7 25.7	25.7	32.5 32.4	32.4	102.20 99.70	100.95	6.94 6.77	6.86	6.76	2.3 2.4	2.4	3.1	3.7 4.4	4.1	4.6	12.1 12.2	12.1	11.2	89.6 86.9	88.3	77.8
				Middle	13.0	24.1 24.3	24.2	34.7 34.5	34.6	96.50 97.10	96.80	6.65 6.68	6.67		3.4 3.4	3.4		2.9 3.3	3.1		8.0 7.8	7.9		78.5 71.7	75.1	
				Bottom	25.0	24.2 24.1	24.2	34.5 34.6	34.6	91.80 92.30	92.05	6.31 6.36	6.34	6.34	3.5 3.3	3.4		7.2 5.9	6.6		13.6 13.6	13.6		72.3 67.8	70.0	
16-May-17	Cloudy	Moderate	14:06	Surface	1	25.5 25.5	25.5	32.7 32.7	32.7	107.00 107.50	107.25	7.29 7.32	7.31	7.29	1.4 1.5	1.5	1.5	1.9 1.8	1.9	1.3	16.3 15.0	15.6	12.4	96.3 88.8	92.5	81.4
				Middle	13.0	25.5 25.5	25.5	32.7 32.7	32.7	107.00 106.80	106.90	7.28 7.27	7.28		1.4 1.5	1.5		1.3 1.8	1.6		10.0 9.8	9.9		77.9 80.6	79.3	
				Bottom	25.0	25.5 25.5	25.5	32.7 32.7	32.7	106.60 106.20	106.40	7.26 7.23	7.25	7.25	1.5 1.5	1.5		<0.5 <0.5	0.5		11.1 12.1	11.6		69.9 74.9	72.4	
18-May-17	Fine	Moderate	16:02	Surface	1	25.8 25.8	25.8	32.8 32.8	32.8	110.10 110.20	110.15	7.45 7.46	7.46	7.41	1.7 1.7	1.7	2.0	1.7 2.5	2.1	2.8	12.1 12.6	12.3	11.4	72.2 79.6	75.9	75.7
				Middle	12.6	25.7 25.7	25.7	32.8 32.8	32.8	108.30 109.10	108.70	7.34 7.39	7.37		1.8 1.7	1.8		2.7 5.4	4.1		10.2 11.7	11.0		69.0 74.2	71.6	
				Bottom	24.1	25.7 25.7	25.7	32.8 32.8	32.8	107.00 109.40	108.20	7.25 7.41	7.33	7.33	2.6 2.4	2.5		2.5 1.8	2.2		11.5 10.5	11.0		78.4 80.8	79.6	
20-May-17	Cloudy	Rough	8:28	Surface	1	25.5 25.5	25.5	32.9 32.9	32.9	105.40 105.30	105.35	7.17 7.16	7.17	7.15	1.6 1.5	1.6	1.6	3.3 5.3	4.3	4.4	23.2 25.6	24.4	24.2	252.9 261.4	257.2	256.3
				Middle	13.0	25.4 25.4	25.4	32.9 32.9	32.9	105.00 104.90	104.95	7.14 7.14	7.14		1.6 1.6	1.6		4.7 7.3	6.0		22.8 26.6	24.7		261.6 271.2	266.4	
				Bottom	24.9	25.4 25.4	25.4	32.9 32.9	32.9	104.90 105.00	104.95	7.14 7.14	7.14	7.14	1.7 1.6	1.7		3.1 2.6	2.9		24.3 22.9	23.6		241.7 248.8	245.3	
23-May-17	Sunny	Rough	10:23	Surface	1	25.5 25.5	25.5	33.4 33.4	33.4	101.80 101.90	101.85	6.91 6.91	6.91	6.88	1.2 1.3	1.3	1.3	1.1 1.3	1.2	1.4	16.2 17.9	17.0	14.5	63.3 66.9	65.1	76.3
				Middle	12.9	25.4 25.4	25.4	33.5 33.6	33.5	101.20 100.70	100.95	6.87 6.83	6.85		1.4 1.3	1.4		1.2 1.6	1.4		10.9 11.9	11.4		85.5 91.2	88.4	
				Bottom	24.8	25.4 25.4	25.4	33.6 33.5	33.5	100.60 101.30	100.95	6.83 6.87	6.85	6.85	1.3 1.3	1.3		1.2 1.8	1.5		14.9 15.1	15.0		79.0 71.7	75.3	
25-May-17	Sunny	Rough	11:57	Surface	1	25.8 25.8	25.8	32.5 32.5	32.5	100.00 99.90	99.95	6.77 6.77	6.77	6.74	1.9 1.9	1.9	2.2	<0.5 <0.5	0.5	1.3	26.8 27.4	27.1	26.3	47.3 48.8	48.0	49.8
				Middle	13.0	25.6 25.6	25.6	33.2 33.3	33.2	98.20 99.70	98.95	6.65 6.76	6.71		2.2 2.4	2.3		0.9 0.5	0.7		24.4 23.1	23.8		50.9 50.0	50.4	
				Bottom	25.0	25.6 25.6	25.6	33.4 33.3	33.4	97.00 96.80	96.90	6.57 6.55	6.56	6.56	2.4 2.3	2.4		3.2 2.4	2.8		27.8 28.1	28.0		51.5 50.3	50.9	

Remark: * DA: Depth-Averaged

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

Water Quality Monitoring Results at G1 - Mid-Ebb Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)			Current Velocity (cm/s)			Direction		
						Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
27-May-17	Sunny	Moderate	12:29	Surface	1	25.7 25.7	25.7	32.9 32.9	32.9	100.70 100.90	100.80	6.82 6.84	6.83	6.82	2.0 1.9	2.0	1.7	4.8 5.1	5.0	4.7	9.9 10.2	10.0	12.1	47.7 49.1	48.4	55.9
				Middle	13.2	25.5 25.5	25.5	33.0 33.0	33.0	100.20 99.90	100.05	6.81 6.79	6.80		1.5 1.4	1.5		4.2 3.8	4.0		12.2 13.1	12.7		56.0 60.1	58.1	
				Bottom	25.3	25.5 25.5	25.5	33.1 33.1	33.1	100.00 99.90	99.95	6.79 6.78	6.79	6.79	1.5 1.6	1.6		6.1 4.2	5.2		14.0 13.0	13.5		60.1 62.2	61.2	
30-May-17	Fine	Moderate	15:22	Surface	1	26.1 26.1	26.1	32.9 32.9	32.9	99.30 99.30	99.30	6.68 6.68	6.68	6.64	1.7 1.8	1.8	1.8	0.9 0.9	0.9	0.8	12.3 10.9	11.6	12.2	63.1 72.0	67.5	71.0
				Middle	13.0	26.0 26.0	26.0	32.9 32.9	32.9	97.90 98.10	98.00	6.60 6.61	6.61		1.7 1.8	1.8		0.8 0.6	0.7		14.5 14.7	14.6		85.2 91.3	88.3	
				Bottom	25.1	25.9 25.9	25.9	33.0 32.9	32.9	97.50 97.10	97.30	6.58 6.56	6.57	6.57	1.8 1.9	1.9		0.9 0.5	0.7		10.7 9.9	10.3		53.2 60.9	57.1	
1-Jun-17	Fine	Moderate	17:16	Surface	1	26.4 26.4	26.4	35.5 35.5	35.5	107.50 107.40	107.45	7.09 7.08	7.09	6.97	2.1 1.8	2.0	2.0	1.7 1.7	1.7	1.1	20.4 18.7	19.5	20.0	70.9 66.5	68.7	69.5
				Middle	13.2	26.3 26.3	26.3	35.6 35.6	35.6	105.10 102.60	103.85	6.94 6.78	6.86		1.9 1.9	1.9		0.8 0.7	1.6		22.4 23.2	22.8		74.3 71.6	73.0	
				Bottom	25.5	26.0 26.0	26.0	36.0 36.0	36.0	103.40 103.20	103.30	6.85 6.84	6.85	6.85	1.9 2.1	2.0		1.0 0.6	0.8		18.6 16.7	17.6		68.3 65.5	66.9	
3-Jun-17	Fine	Moderate	8:21	Surface	1	27.1 27.1	27.1	33.9 34.0	33.9	110.00 110.30	110.15	7.24 7.26	7.25	7.10	1.4 1.4	1.4	1.6	2.9 5.3	4.1	4.0	24.8 26.4	25.6	24.2	79.9 83.5	81.7	59.6
				Middle	13.2	26.5 26.5	26.5	34.7 34.5	34.6	104.20 105.70	104.95	6.90 7.00	6.95		1.7 1.6	1.7		5.6 4.6	5.1		26.9 25.2	26.1		49.7 55.7	52.7	
				Bottom	25.4	26.4 26.3	26.4	35.0 35.3	35.1	107.80 105.10	106.45	7.13 6.95	7.04	7.04	1.6 1.6	1.6		2.6 2.9	2.8		20.0 22.1	21.1		40.0 48.8	44.4	

Remark: * DA: Depth-Averaged

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

Water Quality Monitoring Results at G1 - Mid-Flood Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (^{o}C)		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)			Current Velocity (cm/s)			Direction		
						Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
9-May-17	Sunny	Moderate	17:08	Surface	1	25.0 25.3	25.2	33.8 33.7	33.7	107.40 111.90	109.65	7.32 7.60	7.46	7.21	1.8 1.9	1.9	1.9	7.0 5.6	6.3	5.5	13.1 12.6	12.9	15.5	53.2 53.5	53.3	110.9
				Middle	13.0	24.7 24.8	24.8	34.0 33.9	34.0	99.70 103.40	101.55	6.83 7.07	6.95		2.1 2.1	2.1		5.2 5.0	5.1		23.4 22.3	22.9		175.3 171.9	173.6	
				Bottom	24.9	24.6 24.7	24.6	34.1 34.0	34.0	98.70 103.30	101.00	6.77 7.07	6.92	6.92	2.1 2.1	2.1		5.4 5.0	5.2		11.3 10.1	10.7		108.6 102.8	105.7	
11-May-17	Sunny	Moderate	18:24	Surface	1	26.0 26.0	26.0	33.5 33.5	33.5	121.50 117.30	119.40	8.16 7.88	8.02	7.80	1.6 1.8	1.7	1.8	<0.5 <0.5	0.5	1.1	17.1 15.7	16.4	22.3	65.5 66.9	66.2	57.5
				Middle	13.0	25.3 25.3	25.3	33.6 33.7	33.6	111.00 112.30	111.65	7.54 7.63	7.59		1.8 2.0	1.9		1.9 2.7	2.3		27.4 27.9	27.6		66.5 71.2	68.9	
				Bottom	24.9	25.2 25.3	25.2	33.7 33.7	33.7	113.40 109.90	111.65	7.71 7.47	7.59	7.59	1.9 1.9	1.9		0.7 <0.5	0.6		22.4 23.2	22.8		38.3 36.6	37.5	
13-May-17	Cloudy	Moderate	6:57	Surface	1	25.2 25.1	25.2	33.2 33.3	33.3	94.50 94.10	94.30	6.44 6.45	6.45	6.43	1.8 1.8	1.8	2.0	4.5 4.1	4.3	4.1	9.8 8.9	9.4	10.7	276.8 286.5	281.6	233.2
				Middle	13.2	24.5 24.4	24.4	34.4 34.4	34.4	94.00 93.50	93.75	6.42 6.40	6.41		2.1 2.1	2.1		3.1 3.0	3.1		11.9 11.3	11.6		284.9 251.0	267.9	
				Bottom	25.4	24.5 24.6	24.5	34.4 34.3	34.3	91.70 91.10	91.40	6.29 6.25	6.27	6.27	2.0 2.0	2.0		5.2 4.4	4.8		11.5 10.5	11.0		151.6 148.5	150.1	
16-May-17	Cloudy	Moderate	8:44	Surface	1	25.5 25.5	25.5	32.7 32.7	32.7	105.30 105.20	105.25	7.17 7.16	7.17	7.16	1.4 1.5	1.5	1.5	3.9 3.9	3.9	3.4	12.0 11.4	11.7	12.1	88.6 90.3	89.5	93.5
				Middle	13.0	25.5 25.5	25.5	32.7 32.7	32.7	105.10 104.70	104.90	7.16 7.13	7.15		1.5 1.5	1.5		3.2 2.6	2.9		13.3 13.0	13.2		94.6 100.1	97.3	
				Bottom	25.1	25.5 25.5	25.5	32.7 32.7	32.7	103.80 105.10	104.45	7.07 7.15	7.11	7.11	1.7 1.6	1.7		2.6 4.0	3.3		11.7 11.1	11.4		92.6 94.9	93.7	
18-May-17	Cloudy	Moderate	5:08	Surface	1	25.7 25.7	25.7	32.8 32.8	32.8	106.50 106.40	106.45	7.22 7.21	7.22	7.20	1.4 1.4	1.4	1.4	6.9 7.6	7.3	4.5	10.6 11.0	10.8	11.4	114.1 108.8	111.5	107.3
				Middle	13.0	25.7 25.7	25.7	32.8 32.8	32.8	106.10 106.10	106.10	7.19 7.19	7.19		1.4 1.4	1.4		2.0 1.1	1.6		11.1 10.8	11.0		99.8 103.2	101.5	
				Bottom	24.9	25.7 25.7	25.7	32.8 32.8	32.8	106.10 106.10	106.10	7.19 7.19	7.19	7.19	1.4 1.4	1.4		5.1 4.1	4.6		12.1 12.6	12.3		106.8 111.2	109.0	
20-May-17	Cloudy	Rough	11:44	Surface	1	25.5 25.5	25.5	32.9 32.9	32.9	105.50 105.60	105.55	7.17 7.18	7.18	7.17	1.5 1.4	1.5	1.5	5.1 4.6	4.9	3.6	13.5 14.1	13.8	14.9	100.3 110.1	105.2	106.9
				Middle	12.9	25.5 25.5	25.5	32.9 32.9	32.9	105.40 105.40	105.40	7.17 7.16	7.17		1.4 1.5	1.5		6.5 3.6	5.1		15.4 15.7	15.5		111.2 109.1	110.2	
				Bottom	24.9	25.5 25.5	25.5	32.9 32.9	32.9	105.40 105.30	105.35	7.16 7.16	7.16	7.16	1.5 1.5	1.5		1.2 0.6	0.9		14.8 16.0	15.4		106.1 104.7	105.4	
23-May-17	Fine	Rough	15:30	Surface	1	25.6 25.6	25.6	33.5 33.5	33.5	101.50 101.20	101.35	6.87 6.85	6.86	6.83	1.6 1.4	1.5	1.5	2.2 3.0	2.6	2.4	9.7 8.3	9.0	10.1	78.8 73.6	76.2	68.6
				Middle	13.1	25.5 25.5	25.5	33.6 33.6	33.6	100.30 100.20	100.25	6.80 6.79	6.80		1.6 1.5	1.6		2.3 2.2	2.3		12.5 13.3	12.9		80.1 82.1	81.1	
				Bottom	25.1	25.5 25.5	25.5	33.6 33.6	33.6	100.80 100.50	100.65	6.83 6.81	6.82	6.82	1.6 1.5	1.6		2.3 2.1	2.2		7.7 8.9	8.3		46.7 50.2	48.5	
25-May-17	Cloudy	Rough	17:26	Surface	1	25.8 25.8	25.8	32.4 32.5	32.4	99.30 98.90	99.10	6.73 6.71	6.72	6.69	1.8 2.0	1.9	2.1	<0.5 <0.5	0.5	0.5	20.5 20.2	20.3	22.0	263.3 250.5	256.9	250.8
				Middle	14.0	25.6 25.6	25.6	33.6 33.6	33.6	98.50 98.70	98.60	6.66 6.67	6.67		2.2 2.2	2.2		<0.5 <0.5	0.5		26.8 26.5	26.6		250.5 248.1	249.3	
				Bottom	27.0	25.6 25.6	25.6	33.6 33.6	33.6	95.90 96.50	96.20	6.49 6.52	6.51	6.51	2.1 2.3	2.2		<0.5 <0.5	0.5		19.1 18.9	19.0		249.8 242.5	246.2	

Remark: * DA: Depth-Averaged

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

Water Quality Monitoring Results at G1 - Mid-Flood Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (^{o}C)		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)			Current Velocity (cm/s)			Direction		
						Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
27-May-17	Fine	Rough	6:12	Surface	1	25.6 25.6	25.6	33.2 33.2	33.2	100.40 100.90	100.65	6.79 6.83	6.81	6.81	1.3 1.3	1.3	1.6	4.0 4.6	4.3	5.5	19.7 20.2	19.9	18.9	56.3 60.9	58.6	74.6
				Middle	13.1	25.5 25.6	25.6	33.2 33.2	33.2	100.80 99.90	100.35	6.83 6.77	6.80		1.5 1.6	1.6		5.7 3.8	4.8		21.4 23.2	22.3		60.7 62.2	61.5	
				Bottom	25.2	25.5 25.5	25.5	33.2 33.2	33.2	100.10 101.40	100.75	6.79 6.88	6.84	6.84	1.8 2.0	1.9		7.9 7.1	7.5		14.1 15.0	14.6		104.7 102.8	103.7	
30-May-17	Sunny	Moderate	9:02	Surface	1	26.1 26.1	26.1	32.9 33.1	33.0	99.50 99.80	99.65	6.69 6.71	6.70	6.70	1.7 1.7	1.7	1.7	1.1 0.8	1.0	0.9	17.7 18.2	18.0	14.7	76.8 81.5	79.1	103.1
				Middle	13.1	26.1 26.1	26.1	33.1 33.1	33.1	99.60 99.50	99.55	6.70 6.69	6.70		1.7 1.7	1.7		0.8 <0.5	0.7		15.5 16.2	15.8		169.2 163.3	166.3	
				Bottom	25.1	26.0 26.0	26.0	33.1 33.1	33.1	99.30 99.50	99.40	6.68 6.70	6.69	6.69	1.7 1.8	1.8		1.4 0.8	1.1		10.9 9.9	10.4		61.1 66.5	63.8	
1-Jun-17	Sunny	Moderate	10:56	Surface	1	26.3 26.3	26.3	35.5 35.5	35.5	101.50 101.70	101.60	6.71 6.73	6.72	6.68	1.9 1.8	1.9	1.9	2.7 4.7	3.7	3.1	22.7 21.0	21.8	18.5	215.4 225.5	220.5	200.8
				Middle	13.1	26.2 26.1	26.1	35.6 35.7	35.6	99.60 100.90	100.25	6.59 6.68	6.64		1.9 1.8	1.9		2.7 5.0	5.1		19.2 20.0	19.6		183.5 193.2	188.3	
				Bottom	25.3	26.1 25.9	26.0	35.8 35.9	35.9	101.10 99.00	100.05	6.70 6.56	6.63	6.63	1.9 1.8	1.9		1.6 1.7	1.7		13.3 14.8	14.1		198.9 188.5	193.7	
3-Jun-17	Sunny	Moderate	12:55	Surface	1	26.9 27.0	26.9	34.0 34.0	34.0	114.30 114.90	114.60	7.53 7.57	7.55	7.53	1.6 1.4	1.5	1.5	3.2 5.3	4.3	4.0	25.2 26.3	25.7	24.9	213.4 225.4	219.4	193.5
				Middle	13.2	26.9 26.9	26.9	34.0 34.0	34.0	113.80 113.80	113.80	7.51 7.50	7.51		1.4 1.5	1.5		5.0 4.6	4.8		27.4 28.5	28.0		166.7 169.4	168.1	
				Bottom	25.5	26.6 26.7	26.6	34.5 34.3	34.4	111.70 112.40	112.05	7.39 7.43	7.41	7.41	1.6 1.6	1.6		3.3 2.7	3.0		20.9 21.2	21.1		195.6 190.2	192.9	

Remark: * DA: Depth-Averaged

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

Water Quality Monitoring Results at G2 - Mid-Ebb Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)			Current Velocity (cm/s)			Direction		
						Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
9-May-17	Sunny	Moderate	13:20	Surface	1	25.6 25.3	25.4	33.4 33.5	33.5	108.60 107.50	108.05	7.35 7.30	7.33	6.85	1.6 1.5	1.6	1.8	3.5 2.8	3.2	3.2	24.5 26.0	25.2	18.7	92.5 91.1	91.8	65.8
				Middle	15.5	24.2 24.0	24.1	34.2 34.4	34.3	94.40 90.10	92.25	6.52 6.24	6.38		1.9 2.0	2.0		2.0 3.8	2.9		14.7 14.3	14.5		58.9 52.0	55.5	
				Bottom	30.1	23.9 24.1	24.0	34.4 34.3	34.3	88.40 92.90	90.65	6.12 6.40	6.26	6.26	2.0 1.9	2.0		2.9 4.3	3.6		15.1 17.4	16.3		47.9 52.2	50.0	
11-May-17	Sunny	Moderate	13:16	Surface	1	26.1 26.4	26.2	33.6 33.5	33.6	105.00 109.50	107.25	7.04 7.30	7.17	6.83	1.7 1.5	1.6	2.1	0.5 1.3	0.9	1.4	24.1 23.2	23.7	23.4	52.6 53.8	53.2	73.0
				Middle	15.4	24.7 24.6	24.6	34.3 34.3	34.3	94.00 95.70	94.85	6.43 6.55	6.49		2.4 2.4	2.4		1.4 0.8	1.1		23.0 24.3	23.6		94.4 92.5	93.4	
				Bottom	29.9	24.4 24.5	24.5	34.4 34.4	34.4	92.70 93.70	93.20	6.36 6.35	6.36	6.36	2.2 2.2	2.2		2.6 1.5	2.1		22.5 23.1	22.8		71.8 72.7	72.2	
13-May-17	Fine	Moderate	12:17	Surface	1	25.4 25.4	25.4	33.0 33.0	33.0	98.30 100.70	99.50	6.70 6.86	6.78	6.61	1.8 1.8	1.8	2.3	4.3 3.4	3.9	5.1	10.0 10.9	10.5	11.7	127.9 122.6	125.2	145.9
				Middle	15.1	24.4 24.3	24.4	34.5 34.6	34.5	91.40 95.80	93.60	6.28 6.61	6.45		2.5 2.6	2.6		6.3 6.0	6.2		13.5 10.8	12.1		161.7 167.1	164.4	
				Bottom	29.1	24.4 24.1	24.2	34.6 34.6	34.6	89.20 91.50	90.35	6.12 6.28	6.20	6.20	2.5 2.5	2.5		5.5 4.9	5.2		12.7 12.0	12.3		140.4 155.8	148.1	
16-May-17	Cloudy	Moderate	13:45	Surface	1	25.5 25.5	25.5	32.8 32.8	32.8	103.20 103.30	103.25	7.02 7.03	7.03	7.01	1.6 1.5	1.6	1.6	0.7 <0.5	0.6	1.1	14.4 13.8	14.1	14.5	143.0 133.0	138.0	148.4
				Middle	15.5	25.4 25.5	25.4	32.9 32.8	32.8	102.50 102.80	102.65	6.98 7.00	6.99		1.6 1.5	1.6		1.0 1.3	1.2		12.3 16.4	14.3		166.1 159.2	162.6	
				Bottom	30.0	25.4 25.4	25.4	32.9 32.9	32.9	102.30 102.70	102.50	6.97 6.99	6.98	6.98	1.6 1.5	1.6		1.8 1.3	1.6		15.6 14.9	15.2		138.7 150.5	144.6	
18-May-17	Fine	Moderate	15:40	Surface	1	25.8 25.8	25.8	32.8 32.8	32.8	109.10 109.80	109.45	7.38 7.42	7.40	7.37	1.7 1.7	1.7	1.6	0.8 <0.5	0.7	1.6	18.2 20.1	19.2	15.2	100.5 96.1	98.3	81.6
				Middle	15.5	25.8 25.8	25.8	32.9 32.9	32.9	108.40 108.30	108.35	7.34 7.33	7.34		1.6 1.6	1.6		1.1 1.9	1.5		11.0 12.9	11.9		81.7 74.5	78.1	
				Bottom	30.1	25.8 25.8	25.8	32.9 32.9	32.9	108.70 108.60	108.65	7.35 7.35	7.35	7.35	1.6 1.6	1.6		2.4 2.6	2.5		14.1 15.2	14.7		66.3 70.8	68.5	
20-May-17	Cloudy	Rough	8:50	Surface	1	25.4 25.4	25.4	32.9 32.9	32.9	105.00 105.00	105.00	7.14 7.14	7.14	7.14	1.5 1.5	1.5	1.5	2.0 3.9	3.0	3.4	19.3 17.0	18.2	19.5	254.3 261.3	257.8	264.5
				Middle	15.5	25.4 25.4	25.4	32.9 32.9	32.9	104.80 105.00	104.90	7.13 7.14	7.14		1.5 1.5	1.5		3.6 6.3	5.0		20.2 21.1	20.7		271.9 268.8	270.4	
				Bottom	30.1	25.4 25.4	25.4	32.9 32.9	32.9	104.70 104.80	104.75	7.12 7.13	7.13	7.13	1.6 1.6	1.6		2.3 2.1	2.2		18.8 20.6	19.7		266.1 264.7	265.4	
23-May-17	Sunny	Rough	10:50	Surface	1	25.4 25.4	25.4	33.5 33.5	33.5	101.90 101.80	101.85	6.91 6.91	6.91	6.88	1.4 1.4	1.4	1.5	1.3 1.0	1.2	2.7	12.3 14.1	13.2	12.4	100.9 104.3	102.6	123.4
				Middle	15.6	25.3 25.3	25.3	33.6 33.6	33.6	101.00 100.90	100.95	6.86 6.85	6.86		1.5 1.4	1.5		4.3 3.0	3.7		8.0 8.9	8.4		116.7 120.5	118.6	
				Bottom	30.2	25.3 25.3	25.3	33.6 33.6	33.6	101.00 100.90	100.95	6.86 6.85	6.86	6.86	1.8 1.7	1.8		3.2 3.6	3.4		15.5 16.0	15.7		146.5 151.5	149.0	
25-May-17	Sunny	Rough	12:27	Surface	1	25.8 25.8	25.8	32.5 32.6	32.5	99.20 98.80	99.00	6.73 6.70	6.72	6.70	1.9 1.9	1.9	2.2	<0.5 <0.5	0.5	1.3	19.4 18.9	19.2	18.8	83.3 81.3	82.3	82.1
				Middle	15.0	25.6 25.6	25.6	33.2 33.3	33.2	98.80 98.70	98.75	6.69 6.68	6.69		2.3 2.4	2.4		0.7 1.1	0.9		20.9 20.1	20.5		80.5 80.7	80.6	
				Bottom	29.0	25.6 25.6	25.6	33.3 33.3	33.3	96.70 96.80	96.75	6.55 6.55	6.55	6.55	2.2 2.3	2.3		2.2 3.0	2.6		16.3 17.1	16.7		85.4 81.4	83.4	

Remark: * DA: Depth-Averaged

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

Water Quality Monitoring Results at G2 - Mid-Ebb Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)			Current Velocity (cm/s)			Direction		
						Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
27-May-17	Sunny	Moderate	12:01	Surface	1	25.7 25.7	25.7	32.8 32.9	32.8	101.10 100.90	101.00	6.85 6.84	6.85	6.82	1.5 1.5	1.5	1.5	3.5 2.6	3.1	4.6	14.3 13.9	14.1	12.7	47.0 46.2	46.6	65.5
				Middle	15.3	25.5 25.5	25.5	33.0 33.0	33.0	100.00 99.90	99.95	6.79 6.79	6.79		1.4 1.4	1.4		4.8 3.4	4.1		15.6 15.0	15.3		88.5 90.9	89.7	
				Bottom	29.7	25.5 25.5	25.5	33.1 33.1	33.1	100.10 100.20	100.15	6.80 6.80	6.80	6.80	1.4 1.5	1.5		7.1 6.4	6.8		8.4 9.1	8.8		59.8 60.7	60.2	
30-May-17	Fine	Moderate	14:57	Surface	1	26.0 26.0	26.0	32.9 32.8	32.8	97.50 97.70	97.60	6.57 6.58	6.58	6.58	1.8 1.7	1.8	1.9	0.9 <0.5	0.7	0.7	15.3 16.1	15.7	15.3	183.4 170.6	177.0	167.4
				Middle	15.4	25.9 25.9	25.9	33.0 33.0	33.0	97.80 97.20	97.50	6.59 6.56	6.58		2.0 2.0	2.0		0.9 <0.5	0.7		16.8 15.7	16.2		146.9 155.4	151.2	
				Bottom	29.8	26.0 26.0	26.0	33.1 33.1	33.1	97.80 97.50	97.65	6.58 6.57	6.58	6.58	2.0 2.0	2.0		1.0 0.5	0.8		14.2 13.9	14.1		177.9 170.4	174.2	
1-Jun-17	Fine	Moderate	16:51	Surface	1	26.4 26.4	26.4	35.6 35.6	35.6	105.50 107.10	106.30	6.96 7.07	7.02	6.88	1.8 1.8	1.8	1.9	0.8 <0.5	0.7	2.1	15.1 15.8	15.5	16.9	104.5 113.2	108.8	122.6
				Middle	15.1	26.1 26.1	26.1	35.7 35.7	35.7	101.30 102.60	101.95	6.71 6.79	6.75		2.2 1.8	2.0		0.6 1.4	2.9		18.2 19.1	18.7		135.6 132.1	133.8	
				Bottom	29.2	26.0 26.0	26.0	35.9 35.9	35.9	102.60 103.60	103.10	6.80 6.87	6.84	6.84	1.7 1.8	1.8		5.5 3.6	4.6		16.3 16.7	16.5		123.9 126.7	125.3	
3-Jun-17	Fine	Moderate	8:46	Surface	1	27.0 26.9	27.0	34.0 34.1	34.0	107.80 106.60	107.20	7.10 7.03	7.07	6.97	1.7 1.5	1.6	1.5	2.1 2.6	2.4	3.1	25.2 21.5	23.4	21.4	57.4 60.5	58.9	66.0
				Middle	15.2	26.4 26.3	26.4	34.8 35.2	35.0	104.10 103.60	103.85	6.89 6.86	6.88		1.6 1.5	1.6		2.1 2.4	2.3		21.6 20.2	20.9		69.5 71.8	70.6	
				Bottom	29.4	26.3 26.3	26.3	35.4 35.3	35.3	106.50 105.10	105.80	7.04 6.95	7.00	7.00	1.4 1.5	1.5		3.7 5.8	4.8		20.9 18.8	19.8		56.3 80.5	68.4	

Remark: * DA: Depth-Averaged

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

Water Quality Monitoring Results at G2 - Mid-Flood Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)			Current Velocity (cm/s)			Direction		
						Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
9-May-17	Sunny	Moderate	16:40	Surface	1	25.8 25.8	25.8	33.6 33.6	33.6	109.20 112.20	110.70	7.35 7.56	7.46	7.19	1.6 1.5	1.6	2.1	3.1 5.4	4.3	4.4	16.9 17.5	17.2	18.5	28.5 32.5	30.5	139.3
				Middle	16.0	24.2 24.5	24.3	34.2 33.4	33.8	89.90 110.80	100.35	6.23 7.61	6.92		2.3 2.4	2.4		4.0 3.3	3.7		17.8 26.9	22.3		89.9 138.5	114.2	
				Bottom	31.0	24.2 23.9	24.0	34.2 34.5	34.4	92.90 88.70	90.80	6.41 6.12	6.27	6.27	2.2 2.3	2.3		5.4 5.3	5.4		15.6 16.5	16.0		269.0 277.3	273.2	
11-May-17	Sunny	Moderate	18:02	Surface	1	26.1 26.2	26.1	33.6 33.7	33.6	116.10 113.60	114.85	7.78 7.60	7.69	7.72	1.4 1.5	1.5	1.7	<0.5 <0.5	0.5	0.8	30.1 115.4	72.7	54.1	94.1 111.1	102.6	80.0
				Middle	15.8	25.2 25.6	25.4	34.0 33.4	33.7	107.20 121.50	114.35	7.27 8.22	7.75		1.8 1.8	1.8		<0.5 <0.5	0.5		35.1 41.6	38.4		82.1 61.7	71.9	
				Bottom	30.7	25.1 25.1	25.1	34.1 34.1	34.1	110.60 106.50	108.55	7.52 7.23	7.38	7.38	1.8 1.7	1.8		1.0 1.5	1.3		37.9 64.3	51.1		65.3 65.9	65.6	
13-May-17	Cloudy	Moderate	7:23	Surface	1	25.4 25.2	25.3	32.9 33.2	33.1	98.40 95.10	96.75	6.69 6.48	6.59	6.37	1.8 1.8	1.8	2.2	6.1 4.9	5.5	5.2	11.3 10.8	11.1	11.4	176.1 176.8	176.4	182.3
				Middle	15.5	24.3 23.9	24.1	34.6 34.7	34.7	93.30 86.10	89.70	6.41 5.91	6.16		2.4 2.4	2.4		4.6 4.4	4.5		16.2 5.4	10.8		147.1 279.0	213.0	
				Bottom	29.9	24.3 24.3	24.3	34.6 34.6	34.6	90.60 90.40	90.50	6.23 6.22	6.23	6.23	2.4 2.5	2.5		6.2 4.9	5.6		12.1 12.4	12.3		163.7 151.1	157.4	
16-May-17	Cloudy	Moderate	9:10	Surface	1	25.4 25.4	25.4	32.9 32.8	32.9	102.10 102.50	102.30	6.95 6.98	6.97	6.91	1.5 1.4	1.5	1.5	1.7 1.9	1.8	2.3	14.4 16.0	15.2	13.0	103.3 98.8	101.1	124.9
				Middle	15.5	25.4 25.3	25.4	32.9 33.0	32.9	101.90 99.20	100.55	6.94 6.76	6.85		1.5 1.5	1.5		1.8 1.4	1.6		16.5 8.1	12.3		101.9 258.6	180.2	
				Bottom	30.0	25.3 25.4	25.4	33.0 32.9	32.9	100.60 101.70	101.15	6.85 6.93	6.89	6.89	1.5 1.5	1.5		3.7 3.3	3.5		11.0 12.0	11.5		94.4 92.6	93.5	
18-May-17	Cloudy	Moderate	5:31	Surface	1	25.7 25.7	25.7	32.8 32.8	32.8	107.00 107.00	107.00	7.26 7.25	7.26	7.24	1.5 1.5	1.5	1.5	6.5 8.3	7.4	5.7	10.4 9.8	10.1	9.4	92.2 88.9	90.5	118.4
				Middle	15.5	25.7 25.7	25.7	32.8 32.8	32.8	106.70 106.60	106.65	7.24 7.22	7.23		1.5 1.5	1.5		2.1 4.4	3.3		8.4 7.0	7.7		100.3 249.5	174.9	
				Bottom	30.0	25.6 25.6	25.6	32.8 32.8	32.8	106.70 106.50	106.60	7.24 7.22	7.23	7.23	1.5 1.5	1.5		6.4 6.6	6.5		11.0 10.0	10.5		86.5 93.0	89.8	
20-May-17	Cloudy	Rough	11:21	Surface	1	25.5 25.5	25.5	32.9 32.9	32.9	105.40 105.20	105.30	7.16 7.15	7.16	7.15	1.4 1.4	1.4	1.4	2.0 0.9	1.5	1.2	10.3 11.1	10.7	10.8	94.7 99.0	96.9	122.6
				Middle	15.5	25.5 25.5	25.5	32.9 32.9	32.9	105.10 105.20	105.15	7.14 7.16	7.15		1.4 1.4	1.4		1.9 1.0	1.5		10.0 9.1	9.6		104.8 220.0	162.4	
				Bottom	30.0	25.5 25.5	25.5	32.9 32.9	32.9	104.60 104.90	104.75	7.11 7.13	7.12	7.12	1.4 1.5	1.5		0.9 0.7	0.8		12.1 11.9	12.0		110.0 107.2	108.6	
23-May-17	Fine	Rough	15:06	Surface	1	25.5 25.5	25.5	33.5 33.5	33.5	102.60 102.50	102.55	6.95 6.95	6.95	6.89	1.3 1.3	1.3	1.3	3.4 2.7	3.1	3.4	15.0 15.6	15.3	13.5	66.9 70.1	68.5	70.8
				Middle	15.7	25.4 25.4	25.4	33.6 33.3	33.4	101.50 99.40	100.45	6.89 6.75	6.82		1.3 1.3	1.3		3.1 4.9	4.0		18.8 7.6	13.2		74.9 108.7	91.8	
				Bottom	30.4	25.4 25.4	25.4	33.6 33.6	33.6	101.60 101.50	101.55	6.89 6.89	6.89	6.89	1.3 1.2	1.3		3.1 3.1	3.1		11.6 12.5	12.1		53.9 50.5	52.2	
25-May-17	Cloudy	Rough	17:06	Surface	1	25.9 25.9	25.9	32.3 32.3	32.3	101.40 102.00	101.70	6.87 6.91	6.89	6.75	1.5 1.5	1.5	2.0	0.6 <0.5	0.6	0.6	18.3 19.0	18.7	16.7	271.2 275.4	273.3	222.2
				Middle	15.5	25.5 25.5	25.5	33.2 32.9	33.1	100.50 94.40	97.45	6.80 6.40	6.60		2.2 2.2	2.2		0.6 0.5	0.6		16.5 11.1	13.8		268.2 14.2	141.2	
				Bottom	30.1	25.6 25.6	25.6	33.6 33.5	33.5	95.80 97.70	96.75	6.48 6.62	6.55	6.55	2.2 2.2	2.2		0.6 1.0	0.8		17.8 17.5	17.6		253.8 250.5	252.2	

Remark: * DA: Depth-Averaged

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

Water Quality Monitoring Results at G2 - Mid-Flood Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)			Current Velocity (cm/s)			Direction		
						Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
27-May-17	Fine	Rough	6:36	Surface	1	25.6 25.6	25.6	33.2 33.2	33.2	100.00 100.10	100.05	6.77 6.78	6.78	6.75	1.3 1.4	1.4	1.3	4.8 3.6	4.2	4.8	11.8 12.3	12.0	13.5	55.7 53.7	54.7	74.3
				Middle	15.4	25.5 25.4	25.5	33.2 33.0	33.1	99.30 98.70	99.00	6.73 6.72	6.73		1.3 1.2	1.3		4.7 5.4	5.1		9.8 13.2	11.5		60.9 135.2	98.0	
				Bottom	29.7	25.5 25.5	25.5	33.3 33.3	33.3	99.20 99.30	99.25	6.73 6.73	6.73	6.73	1.2 1.2	1.2		6.2 4.3	5.3		16.9 17.1	17.0		70.0 70.5	70.2	
30-May-17	Sunny	Moderate	9:25	Surface	1	26.1 26.1	26.1	32.9 32.9	32.9	99.20 98.80	99.00	6.67 6.65	6.66	6.67	1.7 1.6	1.7	1.7	1.7 1.3	1.5	2.6	14.1 14.9	14.5	15.5	33.7 40.8	37.3	96.0
				Middle	15.4	26.1 25.9	26.0	33.1 33.5	33.3	99.30 99.30	99.30	6.68 6.68	6.68		1.7 1.8	1.8		2.8 3.7	3.3		11.8 13.1	12.5		143.2 263.2	203.2	
				Bottom	29.7	26.0 26.0	26.0	33.1 33.1	33.1	98.50 99.10	98.80	6.63 6.67	6.65	6.65	1.8 1.7	1.8		2.7 3.2	3.0		20.8 18.6	19.7		43.9 51.0	47.4	
1-Jun-17	Sunny	Moderate	11:20	Surface	1	26.3 26.3	26.3	35.5 35.5	35.5	102.10 102.30	102.20	6.75 6.76	6.76	6.68	1.8 1.8	1.8	1.9	2.7 1.4	2.1	1.9	18.8 19.9	19.4	18.7	191.1 187.7	189.4	190.4
				Middle	15.2	26.2 26.0	26.1	35.5 35.7	35.6	100.50 99.10	99.80	6.64 6.57	6.61		1.9 1.8	1.9		2.0 2.8	4.9		17.7 15.7	16.7		174.4 200.0	187.2	
				Bottom	29.5	26.0 26.0	26.0	35.8 35.8	35.8	100.20 100.80	100.50	6.64 6.68	6.66	6.66	1.8 2.0	1.9		1.6 0.9	1.3		20.8 19.1	20.0		193.8 195.5	194.7	
3-Jun-17	Sunny	Moderate	12:32	Surface	1	27.0 27.0	27.0	34.0 34.1	34.0	113.10 112.50	112.80	7.45 7.41	7.43	7.19	1.4 1.4	1.4	1.5	5.4 6.1	5.8	4.5	23.1 25.0	24.1	21.6	200.6 192.1	196.4	179.1
				Middle	15.3	26.7 26.1	26.4	34.2 35.5	34.8	111.70 98.60	105.15	7.38 6.53	6.96		1.6 1.6	1.6		2.7 5.0	3.9		17.7 21.2	19.5		144.5 194.6	169.6	
				Bottom	29.6	26.5 26.5	26.5	34.7 34.7	34.7	110.40 111.30	110.85	7.30 7.36	7.33	7.33	1.5 1.6	1.6		5.0 2.6	3.8		20.2 22.4	21.3		169.0 173.4	171.2	

Remark: * DA: Depth-Averaged

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

Water Quality Monitoring Results at G3 - Mid-Ebb Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)			Current Velocity (cm/s)			Direction		
						Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
9-May-17	Sunny	Moderate	11:10	Surface	1	25.1 25.6	25.3	33.4 33.2	33.3	96.80 103.40	100.10	6.61 7.01	6.81	6.10	3.1 3.1	3.1	3.2	1.6 1.9	1.8	2.4	15.6 17.7	16.7	16.8	116.5 116.0	116.3	110.3
				Middle	11.5	23.6 23.6	23.6	34.3 34.3	34.3	76.50 77.80	77.15	5.33 5.43	5.38		3.1 3.3	3.2		1.5 1.1	1.3		19.0 20.1	19.6		115.3 103.4	109.4	
				Bottom	22.0	23.5 23.5	23.5	34.4 34.6	34.5	74.00 75.20	74.60	5.16 5.25	5.21	5.21	3.3 3.1	3.2		4.2 4.1	4.2		14.2 13.9	14.0		110.5 100.0	105.3	
11-May-17	Sunny	Moderate	11:05	Surface	1	25.4 25.5	25.5	33.4 33.4	33.4	97.70 98.00	97.85	6.63 6.64	6.64	6.19	1.8 1.7	1.8	2.2	0.9 0.9	0.9	1.7	16.7 16.5	16.6	17.8	122.8 136.2	129.5	99.1
				Middle	11.6	23.9 23.9	23.9	34.5 34.5	34.5	84.10 81.90	83.00	5.82 5.67	5.75		2.5 2.4	2.5		2.4 3.6	3.0		17.5 19.0	18.3		82.4 87.7	85.1	
				Bottom	22.1	23.9 23.9	23.9	34.5 34.5	34.5	87.90 83.80	85.85	6.09 5.80	5.95	5.95	2.3 2.4	2.4		0.9 1.6	1.3		18.7 18.4	18.5		80.8 84.3	82.6	
13-May-17	Fine	Moderate	14:30	Surface	1	25.2 25.2	25.2	33.2 33.2	33.2	96.60 96.00	96.30	6.59 6.55	6.57	6.48	1.8 1.8	1.8	2.0	4.4 3.0	3.7	3.5	16.6 14.4	15.5	15.2	255.7 235.8	245.7	236.2
				Middle	11.0	24.6 24.6	24.6	34.1 34.1	34.1	93.20 92.30	92.75	6.42 6.37	6.40		2.0 2.1	2.1		3.2 3.6	3.4		13.3 12.0	12.6		237.0 221.4	229.2	
				Bottom	20.9	24.2 24.1	24.1	34.5 34.6	34.5	90.40 89.30	89.85	6.20 6.13	6.17	6.17	2.0 2.1	2.1		3.4 3.3	3.4		17.1 17.6	17.4		222.0 245.7	233.8	
16-May-17	Cloudy	Moderate	15:59	Surface	1	25.4 25.4	25.4	32.8 32.8	32.8	109.20 108.50	108.85	7.43 7.39	7.41	7.39	1.5 1.5	1.5	1.6	1.4 1.8	1.6	1.2	20.0 18.9	19.4	21.1	194.7 203.1	198.9	202.3
				Middle	11.8	25.4 25.4	25.4	32.8 32.8	32.8	108.00 108.70	108.35	7.35 7.40	7.38		1.6 1.5	1.6		<0.5 <0.5	0.5		21.3 20.2	20.7		184.8 200.2	192.5	
				Bottom	22.6	25.4 25.4	25.4	32.8 32.8	32.8	106.40 108.40	107.40	7.25 7.38	7.32	7.32	1.6 1.6	1.6		1.5 1.2	1.4		22.1 24.2	23.1		221.5 209.4	215.4	
18-May-17	Fine	Moderate	17:31	Surface	1	25.8 25.8	25.8	32.8 32.8	32.8	111.30 111.80	111.55	7.54 7.57	7.56	7.50	1.6 1.7	1.7	1.7	5.5 4.2	4.9	4.5	16.6 15.6	16.1	14.8	157.7 146.6	152.2	120.2
				Middle	11.5	25.7 25.7	25.7	32.8 32.9	32.8	110.40 109.50	109.95	7.48 7.41	7.45		1.7 1.8	1.8		2.0 2.9	2.5		17.0 14.8	15.9		113.3 119.6	116.4	
				Bottom	22.1	25.7 25.7	25.7	32.9 32.8	32.9	108.40 110.90	109.65	7.35 7.51	7.43	7.43	1.7 1.7	1.7		6.9 5.5	6.2		13.1 12.0	12.6		93.3 90.6	92.0	
20-May-17	Cloudy	Rough	6:44	Surface	1	25.5 25.5	25.5	32.9 32.9	32.9	105.00 104.60	104.80	7.13 7.11	7.12	7.11	1.5 1.4	1.5	1.5	4.2 4.2	4.2	3.2	14.4 16.0	15.2	17.7	97.1 101.2	99.2	98.0
				Middle	11.8	25.5 25.5	25.5	32.9 32.9	32.9	104.40 104.40	104.40	7.09 7.10	7.10		1.5 1.4	1.5		1.9 3.0	2.5		17.1 19.3	18.2		99.2 102.2	100.7	
				Bottom	22.5	25.5 25.5	25.5	32.9 32.9	32.9	104.20 104.10	104.15	7.08 7.08	7.08	7.08	1.4 1.5	1.5		2.4 3.4	2.9		20.2 18.8	19.5		93.1 95.0	94.1	
23-May-17	Sunny	Rough	8:34	Surface	1	25.3 25.4	25.3	33.2 33.2	33.2	98.50 98.30	98.40	6.70 6.68	6.69	6.68	1.4 1.3	1.4	1.4	1.2 1.9	1.6	1.4	13.9 11.6	12.7	10.2	285.0 266.2	275.6	254.0
				Middle	11.7	25.4 25.4	25.4	33.5 33.5	33.5	97.90 98.50	98.20	6.64 6.68	6.66		1.5 1.4	1.5		0.8 1.3	1.1		10.6 9.5	10.0		206.7 231.2	218.9	
				Bottom	22.3	25.4 25.4	25.4	33.5 33.5	33.5	98.70 97.80	98.25	6.70 6.63	6.67	6.67	1.5 1.4	1.5		1.8 1.3	1.6		7.4 8.1	7.7		262.8 272.4	267.6	
25-May-17	Sunny	Rough	10:27	Surface	1	25.7 25.6	25.7	32.2 32.3	32.2	94.40 94.40	94.40	6.42 6.41	6.42	6.40	1.9 1.9	1.9	1.9	<0.5 <0.5	0.5	0.5	16.3 15.5	15.9	19.0	128.1 130.7	129.4	132.1
				Middle	12.1	25.5 25.5	25.5	33.2 33.5	33.3	94.20 93.90	94.05	6.40 6.36	6.38		1.8 1.9	1.9		<0.5 <0.5	0.5		18.3 17.7	18.0		133.5 129.5	131.5	
				Bottom	23.1	25.5 25.5	25.5	33.6 33.6	33.6	92.40 93.00	92.70	6.27 6.30	6.29	6.29	2.2 2.1	2.2		<0.5 <0.5	0.5		23.1 22.9	23.0		136.3 134.8	135.6	

Remark: * DA: Depth-Averaged

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

Water Quality Monitoring Results at G3 - Mid-Ebb Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)			Current Velocity (cm/s)			Direction		
						Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
27-May-17	Sunny	Moderate	14:23	Surface	1	25.8 25.8	25.8	32.7 32.7	32.7	91.60 89.00	90.30	6.20 6.03	6.12	6.15	2.3 2.2	2.3	2.6	5.8 4.0	4.9	6.9	17.3 15.3	16.3	14.4	145.0 149.2	147.1	97.3
				Middle	11.9	25.5 25.5	25.5	33.0 33.0	33.0	89.30 92.90	91.10	6.06 6.31	6.19		2.7 2.9	2.8		5.1 4.8	5.0		12.6 13.0	12.8		63.5 61.0	62.2	
				Bottom	22.7	25.5 25.5	25.5	33.0 33.0	33.0	96.30 89.60	92.95	6.54 6.08	6.31	6.31	2.7 2.7	2.7		11.8 9.7	10.8		14.0 14.1	14.1		81.4 83.7	82.6	
30-May-17	Fine	Moderate	17:02	Surface	1	26.1 26.1	26.1	32.8 32.8	32.8	97.80 98.00	97.90	6.58 6.60	6.59	6.57	1.7 1.9	1.8	1.8	1.3 1.2	1.3	1.5	22.7 21.9	22.3	17.9	286.5 277.9	282.2	237.8
				Middle	11.6	25.9 25.9	25.9	32.9 32.9	32.9	97.00 96.90	96.95	6.54 6.54	6.54		1.7 1.7	1.7		1.5 1.9	1.7		16.6 16.9	16.7		203.3 216.5	209.9	
				Bottom	22.3	25.8 25.8	25.8	33.2 33.2	33.2	96.40 96.40	96.40	6.50 6.50	6.50	6.50	1.7 1.8	1.8		1.4 1.8	1.6		13.8 15.8	14.8		225.1 217.2	221.1	
1-Jun-17	Fine	Moderate	18:53	Surface	1	26.3 26.3	26.3	35.7 35.7	35.7	102.00 102.70	102.35	6.73 6.78	6.76	6.73	1.7 1.8	1.8	1.8	3.2 2.4	2.8	3.6	20.9 17.4	19.2	22.7	118.9 125.1	122.0	120.8
				Middle	11.6	26.1 26.1	26.1	35.7 35.7	35.7	101.00 101.70	101.35	6.68 6.73	6.71		1.8 1.8	1.8		2.9 2.0	1.3		28.6 26.2	27.4		137.4 145.1	141.3	
				Bottom	22.3	26.0 26.0	26.0	35.8 35.8	35.8	100.80 100.60	100.70	6.68 6.67	6.68	6.68	1.7 1.9	1.8		4.7 6.4	5.6		22.6 20.3	21.4		97.5 100.7	99.1	
3-Jun-17	Fine	Moderate	6:37	Surface	1	26.9 26.9	26.9	33.9 33.9	33.9	103.80 102.70	103.25	6.85 6.78	6.82	6.69	1.5 1.7	1.6	1.6	6.4 4.0	5.2	4.3	14.7 13.0	13.8	15.0	84.3 88.6	86.4	72.0
				Middle	11.8	26.4 26.4	26.4	34.7 34.8	34.7	99.30 98.60	98.95	6.58 6.53	6.56		1.5 1.6	1.6		3.7 2.7	3.2		17.0 17.7	17.4		79.3 82.4	80.9	
				Bottom	22.6	26.3 26.2	26.2	35.3 35.4	35.4	99.60 99.40	99.50	6.60 6.58	6.59	6.59	1.5 1.8	1.7		5.4 3.3	4.4		13.4 14.5	13.9		47.7 49.5	48.6	

Remark: * DA: Depth-Averaged

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

Water Quality Monitoring Results at G3 - Mid-Flood Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)			Current Velocity (cm/s)			Direction		
						Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
9-May-17	Sunny	Moderate	18:37	Surface	1	25.6 25.5	25.6	33.3 33.3	33.3	119.60 116.60	118.10	8.10 7.90	8.00	7.64	1.6 1.7	1.7	1.8	3.8 2.3	3.1	5.0	18.5 19.6	19.0	17.6	146.6 127.1	136.9	131.1
				Middle	11.7	24.6 24.4	24.5	33.4 33.5	33.5	103.90 106.80	105.35	7.18 7.39	7.29		1.9 1.9	1.9		5.2 3.9	4.6		20.5 21.1	20.8		137.1 124.5	130.8	
				Bottom	22.4	24.2 24.3	24.3	33.6 33.5	33.6	102.60 103.80	103.20	7.09 7.15	7.12	7.12	1.9 1.8	1.9		6.6 8.3	7.5		14.1 12.1	13.1		124.9 126.1	125.5	
11-May-17	Sunny	Moderate	19:48	Surface	1	26.0 26.0	26.0	33.3 33.3	33.3	121.10 121.00	121.05	8.14 8.14	8.14	7.96	1.6 1.6	1.6	1.7	0.6 1.4	1.0	0.8	21.6 23.1	22.4	25.8	71.8 72.8	72.3	72.1
				Middle	11.9	25.3 25.2	25.2	33.4 33.4	33.4	115.90 112.00	113.95	7.90 7.64	7.77		1.9 1.6	1.8		0.9 0.6	0.8		20.5 22.4	21.5		78.0 74.4	76.2	
				Bottom	22.9	25.2 25.2	25.2	33.4 33.4	33.4	109.50 107.70	108.60	7.45 7.33	7.39	7.39	1.8 1.8	1.8		0.9 <0.5	0.7		32.8 34.2	33.5		69.5 66.4	67.9	
13-May-17	Cloudy	Moderate	5:28	Surface	1	25.0 25.0	25.0	33.1 33.2	33.2	90.40 89.40	89.90	6.19 6.12	6.16	6.14	2.0 2.1	2.1	2.6	4.5 4.8	4.7	4.8	13.4 14.1	13.8	11.2	251.5 263.6	257.5	175.1
				Middle	11.3	24.0 23.9	24.0	34.7 34.7	34.7	88.10 88.80	88.45	6.08 6.15	6.12		2.8 2.9	2.9		3.9 3.8	3.9		11.6 10.7	11.2		135.9 160.5	148.2	
				Bottom	21.6	23.8 24.0	23.9	34.8 34.6	34.7	85.60 85.10	85.35	5.92 5.87	5.90	5.90	2.9 2.8	2.9		6.6 5.3	6.0		8.5 8.9	8.7		122.1 117.2	119.7	
16-May-17	Cloudy	Moderate	6:44	Surface	1	25.4 25.4	25.4	32.9 32.9	32.9	101.90 101.60	101.75	6.94 6.92	6.93	6.92	1.6 1.6	1.6	1.6	1.9 1.9	1.9	1.6	12.2 10.9	11.5	10.2	191.6 196.0	193.8	149.5
				Middle	11.8	25.4 25.4	25.4	32.9 32.9	32.9	101.50 101.20	101.35	6.91 6.89	6.90		1.6 1.6	1.6		1.6 1.0	1.3		9.6 8.9	9.3		156.5 140.1	148.3	
				Bottom	22.6	25.4 25.4	25.4	33.0 33.0	33.0	101.00 101.40	101.20	6.88 6.90	6.89	6.89	1.6 1.6	1.6		1.7 1.3	1.5		9.4 10.1	9.7		104.0 108.7	106.3	
18-May-17	Cloudy	Moderate	3:12	Surface	1	25.6 25.6	25.6	32.8 32.8	32.8	107.10 107.00	107.05	7.27 7.26	7.27	7.25	1.4 1.4	1.4	1.5	1.8 0.9	1.4	1.9	10.3 10.7	10.5	8.6	123.4 128.2	125.8	123.3
				Middle	11.3	25.6 25.6	25.6	32.8 32.8	32.8	106.90 106.10	106.50	7.26 7.20	7.23		1.4 1.5	1.5		2.4 2.5	2.5		7.8 8.0	7.9		133.4 125.7	129.5	
				Bottom	21.5	25.6 25.6	25.6	32.8 32.9	32.9	106.70 103.90	105.30	7.24 7.05	7.15	7.15	1.5 1.5	1.5		2.3 1.4	1.9		7.1 7.4	7.3		112.4 116.8	114.6	
20-May-17	Cloudy	Rough	13:18	Surface	1	25.5 25.5	25.5	32.9 32.9	32.9	105.50 105.80	105.65	7.18 7.19	7.19	7.17	1.5 1.6	1.6	1.6	1.7 2.0	1.9	2.9	11.2 12.0	11.6	9.9	143.5 150.5	147.0	150.9
				Middle	11.7	25.5 25.5	25.5	32.9 32.9	32.9	105.20 105.40	105.30	7.15 7.17	7.16		1.6 1.5	1.6		4.1 2.9	3.5		9.1 9.7	9.4		139.9 144.4	142.2	
				Bottom	22.5	25.4 25.4	25.4	32.9 32.9	32.9	105.30 105.10	105.20	7.16 7.15	7.16	7.16	1.5 1.6	1.6		4.0 2.6	3.3		8.3 9.2	8.8		160.2 166.8	163.5	
23-May-17	Fine	Rough	17:15	Surface	1	25.4 25.4	25.4	32.8 32.8	32.8	95.00 95.50	95.25	6.47 6.50	6.49	6.51	1.9 1.8	1.9	1.8	4.1 2.5	3.3	2.8	13.1 14.1	13.6	12.3	102.6 106.1	104.4	94.1
				Middle	11.6	25.4 25.4	25.4	33.2 33.2	33.2	96.60 95.60	96.10	6.57 6.50	6.54		1.5 1.6	1.6		2.3 2.1	2.2		10.8 11.2	11.0		98.2 100.2	99.2	
				Bottom	22.2	25.4 25.4	25.4	33.2 33.2	33.2	97.30 94.90	96.10	6.61 6.46	6.54	6.54	1.9 1.8	1.9		3.2 2.8	3.0		11.8 12.4	12.1		76.7 80.5	78.6	
25-May-17	Cloudy	Rough	18:59	Surface	1	25.7 25.8	25.7	32.2 32.2	32.2	96.10 96.60	96.35	6.53 6.56	6.55	6.52	1.7 1.8	1.8	1.7	<0.5 <0.5	0.5	0.5	17.4 16.9	17.2	18.1	45.4 44.4	44.9	42.2
				Middle	12.4	25.4 25.4	25.4	32.6 32.7	32.6	95.10 95.90	95.50	6.48 6.51	6.50		1.7 1.7	1.7		<0.5 0.6	0.6		16.9 17.5	17.2		41.7 40.4	41.1	
				Bottom	23.8	25.5 25.5	25.5	32.6 33.2	32.9	94.80 94.80	94.80	6.46 6.46	6.46	6.46	1.6 1.7	1.7		<0.5 <0.5	0.5		20.6 19.2	19.9		40.9 40.2	40.5	

Remark: * DA: Depth-Averaged

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

Water Quality Monitoring Results at G3 - Mid-Flood Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)			Current Velocity (cm/s)			Direction		
						Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
27-May-17	Fine	Rough	4:28	Surface	1	25.6 25.6	25.6	32.8 32.8	32.8	97.30 97.50	97.40	6.61 6.62	6.62	6.65	1.8 1.8	1.8	1.7	9.3 8.5	8.9	10.1	16.1 16.4	16.3	14.4	117.9 122.4	120.1	116.9
				Middle	11.8	25.5 25.5	25.5	33.0 33.0	33.0	98.50 98.20	98.35	6.70 6.68	6.69		1.6 1.7	1.7		10.9 11.3	11.1		12.8 11.9	12.3		132.8 128.9	130.8	
				Bottom	22.5	25.4 25.4	25.4	33.0 32.9	33.0	98.00 97.30	97.65	6.67 6.62	6.65	6.65	1.7 1.7	1.7		9.6 11.0	10.3		14.8 14.1	14.5		100.6 98.8	99.7	
30-May-17	Sunny	Moderate	7:16	Surface	1	25.9 25.9	25.9	33.3 33.3	33.3	99.40 99.30	99.35	6.70 6.69	6.70	6.66	1.4 1.5	1.5	1.5	<0.5 1.4	1.0	0.7	23.2 22.6	22.9	18.7	147.8 151.6	149.7	169.9
				Middle	11.7	25.8 25.8	25.8	33.4 33.4	33.4	98.50 98.10	98.30	6.64 6.61	6.63		1.4 1.5	1.5		<0.5 <0.5	0.5		15.0 15.7	15.3		169.5 175.2	172.4	
				Bottom	22.4	25.8 25.8	25.8	33.5 33.4	33.4	98.60 98.70	98.65	6.65 6.66	6.66	6.66	1.5 1.5	1.5		<0.5 0.6	0.6		17.5 18.4	18.0		184.3 190.7	187.5	
1-Jun-17	Sunny	Moderate	9:21	Surface	1	26.4 26.5	26.4	35.1 35.0	35.0	100.10 101.60	100.85	6.63 6.72	6.68	6.64	1.8 1.9	1.9	1.8	<0.5 <0.5	0.5	1.2	14.8 15.5	15.1	15.4	233.9 220.6	227.2	261.8
				Middle	11.7	26.0 26.0	26.0	35.7 35.7	35.7	99.60 99.30	99.45	6.61 6.58	6.60		1.8 1.8	1.8		1.5 3.0	4.6		16.9 17.7	17.3		286.1 290.0	288.0	
				Bottom	22.5	26.0 26.1	26.0	35.8 35.7	35.7	100.30 100.00	100.15	6.65 6.63	6.64	6.64	1.7 1.8	1.8		0.9 1.0	1.0		13.2 14.3	13.7		267.0 273.4	270.2	
3-Jun-17	Sunny	Moderate	14:44	Surface	1	26.8 27.1	26.9	33.6 33.5	33.6	101.80 105.80	103.80	6.74 6.98	6.86	6.69	1.6 1.6	1.6	1.7	5.5 4.6	5.1	5.3	15.0 13.7	14.3	11.7	174.6 163.4	169.0	177.1
				Middle	11.8	26.2 26.2	26.2	35.4 35.4	35.4	97.90 98.90	98.40	6.48 6.55	6.52		1.7 1.6	1.7		7.4 5.3	6.4		12.2 10.4	11.3		198.7 200.7	199.7	
				Bottom	22.7	26.0 26.1	26.1	35.9 35.8	35.8	102.60 100.80	101.70	6.80 6.67	6.74	6.74	1.6 1.9	1.8		3.5 5.6	4.6		9.8 8.8	9.3		159.9 165.3	162.6	

Remark: * DA: Depth-Averaged

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

Water Quality Monitoring Results at G4 - Mid-Ebb Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)			Current Velocity (cm/s)			Direction		
						Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
9-May-17	Sunny	Moderate	12:00	Surface	1	24.9 25.0	25.0	33.6 33.6	33.6	101.40 103.40	102.40	6.94 7.06	7.00	6.61	2.2 2.2	2.2	2.5	5.8 4.3	5.1	4.4	17.2 16.8	17.0	14.2	105.8 106.2	106.0	90.2
				Middle	17.3	24.3 24.2	24.2	34.2 34.3	34.2	93.70 86.70	90.20	6.44 5.99	6.22		2.6 2.6	2.6		4.0 3.8	3.9		14.7 13.4	14.1		77.6 75.3	76.4	
				Bottom	33.4	24.1 24.4	24.2	34.3 34.2	34.2	85.90 88.60	87.25	5.93 6.10	6.02	6.02	2.6 2.5	2.6		4.4 4.0	4.2		12.5 10.3	11.4		90.2 85.8	88.0	
11-May-17	Sunny	Moderate	11:54	Surface	1	25.5 25.5	25.5	33.4 33.4	33.4	111.00 110.20	110.60	7.52 7.47	7.50	6.88	1.6 1.7	1.7	2.2	1.1 0.7	0.9	1.9	20.7 22.7	21.7	19.0	105.0 98.7	101.9	115.3
				Middle	16.8	24.6 24.5	24.6	34.0 34.1	34.0	91.30 91.10	91.20	6.27 6.25	6.26		2.3 2.5	2.4		1.1 0.8	1.0		19.6 18.5	19.1		131.5 126.8	129.1	
				Bottom	32.6	24.3 24.4	24.4	34.2 34.2	34.2	93.70 94.10	93.90	6.45 6.47	6.46	6.46	2.4 2.4	2.4		4.6 3.1	3.9		16.3 16.2	16.2		119.5 110.5	115.0	
13-May-17	Fine	Moderate	13:38	Surface	1	25.6 25.6	25.6	32.7 32.6	32.6	98.40 97.30	97.85	6.74 6.68	6.71	6.64	2.1 2.2	2.2	2.5	3.7 3.7	3.7	4.6	13.3 13.2	13.3	15.2	57.8 53.8	55.8	61.2
				Middle	16.7	24.3 24.4	24.3	34.5 34.5	34.5	96.50 96.70	96.60	6.56 6.57	6.57		2.6 2.6	2.6		4.3 3.6	4.0		15.6 13.8	14.7		67.7 62.2	65.0	
				Bottom	32.4	24.5 24.6	24.5	34.3 34.2	34.2	91.50 91.50	91.50	6.29 6.29	6.29	6.29	2.6 2.6	2.6		6.0 6.3	6.2		17.8 17.3	17.6		62.4 63.0	62.7	
16-May-17	Cloudy	Moderate	15:03	Surface	1	25.6 25.6	25.6	32.6 32.6	32.6	111.10 111.20	111.15	7.55 7.56	7.56	7.55	1.4 1.5	1.5	1.5	1.5 1.0	1.3	0.8	14.6 13.4	14.0	14.3	70.4 65.3	67.8	73.5
				Middle	17.3	25.6 25.6	25.6	32.7 32.6	32.6	110.80 111.00	110.90	7.53 7.54	7.54		1.5 1.6	1.6		0.5 <0.5	0.5		15.6 16.7	16.1		77.8 80.2	79.0	
				Bottom	33.0	25.6 25.6	25.6	32.7 32.7	32.7	110.60 110.60	110.60	7.51 7.52	7.52	7.52	1.5 1.6	1.6		<0.5 <0.5	0.5		11.5 14.0	12.8		70.6 76.9	73.8	
18-May-17	Fine	Moderate	16:44	Surface	1	25.8 25.8	25.8	32.8 32.8	32.8	111.50 111.80	111.65	7.55 7.57	7.56	7.51	1.8 1.8	1.8	2.0	3.2 2.1	2.7	2.8	14.2 16.4	15.3	13.5	154.0 151.8	152.9	150.9
				Middle	16.7	25.8 25.8	25.8	32.8 32.8	32.8	110.90 109.60	110.25	7.51 7.42	7.47		1.8 2.0	1.9		3.1 2.3	2.7		13.0 13.4	13.2		172.7 168.8	170.8	
				Bottom	32.5	25.8 25.7	25.8	32.8 32.8	32.8	108.10 110.80	109.45	7.32 7.50	7.41	7.41	2.3 2.2	2.3		2.2 4.0	3.1		11.8 12.5	12.2		131.7 126.1	128.9	
20-May-17	Cloudy	Rough	7:41	Surface	1	25.5 25.5	25.5	32.9 32.9	32.9	104.60 105.10	104.85	7.12 7.15	7.14	7.12	1.5 1.5	1.5	1.5	5.9 4.6	5.3	2.6	15.7 16.1	15.9	15.7	253.3 260.9	257.1	255.6
				Middle	17.2	25.5 25.5	25.5	32.9 32.9	32.9	104.60 104.20	104.40	7.12 7.09	7.11		1.5 1.5	1.5		1.6 1.4	1.5		17.1 18.2	17.6		248.1 252.2	250.1	
				Bottom	33.0	25.4 25.4	25.4	32.9 32.9	32.9	103.50 104.40	103.95	7.04 7.10	7.07	7.07	1.6 1.6	1.6		1.1 1.2	1.2		13.3 14.1	13.7		261.7 257.3	259.5	
23-May-17	Sunny	Rough	9:28	Surface	1	25.5 25.5	25.5	33.5 33.5	33.5	100.30 99.90	100.10	6.80 6.78	6.79	6.74	1.4 1.5	1.5	1.8	0.7 0.7	0.7	1.1	13.6 12.3	12.9	15.9	78.9 83.3	81.1	96.6
				Middle	17.2	25.4 25.4	25.4	33.7 33.6	33.7	98.70 98.80	98.75	6.69 6.70	6.70		2.0 1.8	1.9		1.6 1.3	1.5		15.2 14.5	14.8		92.5 90.8	91.7	
				Bottom	33.2	25.4 25.4	25.4	33.7 33.7	33.7	98.90 99.10	99.00	6.71 6.71	6.71	6.71	1.9 2.0	2.0		1.2 1.1	1.2		20.2 19.4	19.8		113.3 120.8	117.1	
25-May-17	Sunny	Rough	11:10	Surface	1	25.8 25.8	25.8	32.7 32.8	32.7	97.10 96.50	96.80	6.58 6.54	6.56	6.52	2.0 2.2	2.1	2.5	1.6 1.0	1.3	0.8	14.5 15.0	14.7	15.1	66.5 67.0	66.7	65.2
				Middle	17.1	25.6 25.6	25.6	33.5 33.5	33.5	95.90 95.60	95.75	6.49 6.47	6.48		2.6 2.5	2.6		<0.5 0.7	0.6		13.4 13.3	13.3		67.4 68.2	67.8	
				Bottom	33.1	25.6 25.6	25.6	33.5 33.6	33.6	95.10 94.60	94.85	6.44 6.40	6.42	6.42	2.8 2.8	2.8		0.6 <0.5	0.6		17.4 16.9	17.2		61.3 60.9	61.1	

Remark: * DA: Depth-Averaged

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

Water Quality Monitoring Results at G4 - Mid-Ebb Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)			Current Velocity (cm/s)			Direction		
						Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
27-May-17	Sunny	Moderate	13:33	Surface	1	25.7 25.8	25.7	32.8 32.8	32.8	99.10 99.00	99.05	6.72 6.70	6.71	6.74	1.9 2.0	2.0	1.7	3.5 4.6	4.1	6.4	14.2 13.8	14.0	12.6	84.1 85.7	84.9	65.3
				Middle	17.3	25.5 25.5	25.5	33.0 33.0	33.0	99.80 99.30	99.55	6.78 6.75	6.77		1.5 1.6	1.6		4.4 5.6	5.0		10.6 11.5	11.0		39.2 41.5	40.3	
				Bottom	33.4	25.5 25.5	25.5	33.0 33.0	33.0	98.60 98.20	98.40	6.70 6.68	6.69	6.69	1.6 1.6	1.6		9.8 10.3	10.1		12.7 12.8	12.7		71.7 69.6	70.7	
30-May-17	Fine	Moderate	16:16	Surface	1	26.1 26.1	26.1	32.9 32.9	32.9	99.30 98.90	99.10	6.68 6.66	6.67	6.61	1.6 1.6	1.6	1.7	0.6 1.1	0.9	0.7	15.8 16.0	15.9	14.7	93.2 85.7	89.5	82.4
				Middle	17.2	25.9 25.9	25.9	32.9 32.9	32.9	96.60 97.20	96.90	6.52 6.56	6.54		1.8 1.7	1.8		0.6 <0.5	0.6		11.3 12.7	12.0		100.7 90.9	95.8	
				Bottom	33.3	25.9 25.9	25.9	32.9 32.9	32.9	96.70 98.30	97.50	6.53 6.63	6.58	6.58	1.9 1.7	1.8		0.9 <0.5	0.7		17.3 15.2	16.3		60.3 63.2	61.8	
1-Jun-17	Fine	Moderate	18:13	Surface	1	26.4 26.4	26.4	35.6 35.6	35.6	107.60 103.80	105.70	7.10 6.85	6.98	6.83	1.8 1.9	1.9	2.0	0.7 1.0	0.9	0.8	13.2 15.2	14.2	17.9	96.3 110.8	103.5	121.1
				Middle	17.3	26.1 26.3	26.2	35.7 35.6	35.7	99.60 102.70	101.15	6.59 6.78	6.69		1.9 2.0	2.0		<0.5 0.6	3.9		20.0 18.8	19.4		139.8 130.2	135.0	
				Bottom	33.2	26.0 26.0	26.0	36.0 36.0	36.0	96.50 99.50	98.00	6.39 6.59	6.49	6.49	2.2 2.1	2.2		1.0 1.2	1.1		19.1 21.3	20.2		120.0 129.4	124.7	
3-Jun-17	Fine	Moderate	7:27	Surface	1	27.2 27.2	27.2	33.5 33.5	33.5	107.70 107.90	107.80	7.10 7.11	7.11	6.84	1.5 1.4	1.5	1.6	4.4 2.7	3.6	4.1	28.8 29.6	29.2	24.5	66.2 60.7	63.5	70.8
				Middle	17.5	26.6 26.4	26.5	34.3 34.8	34.5	100.60 98.10	99.35	6.66 6.50	6.58		1.5 1.5	1.5		2.8 4.7	3.8		25.4 24.4	24.9		80.5 82.4	81.5	
				Bottom	34.1	26.1 26.2	26.1	35.8 35.7	35.7	100.70 98.40	99.55	6.67 6.51	6.59	6.59	1.8 2.0	1.9		6.2 3.9	5.1		20.6 18.1	19.4		71.1 63.5	67.3	

Remark: * DA: Depth-Averaged

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

Water Quality Monitoring Results at G4 - Mid-Flood Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)			Current Velocity (cm/s)			Direction		
						Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
9-May-17	Sunny	Moderate	17:56	Surface	1	25.6 25.7	25.6	33.4 33.4	33.4	122.80 124.20	123.50	8.30 8.40	8.35	8.13	1.7 1.6	1.7	1.8	8.3 6.3	7.3	7.6	26.3 25.6	26.0	19.6	119.3 121.6	120.5	128.7
				Middle	17.2	25.4 25.3	25.3	33.6 33.8	33.7	118.60 114.80	116.70	8.04 7.78	7.91		1.8 1.8	1.8		6.0 7.9	7.0		19.4 19.9	19.6		130.6 132.2	131.4	
				Bottom	33.4	25.4 25.4	25.4	34.0 34.0	34.0	116.60 110.80	113.70	7.89 7.50	7.70	7.70	1.8 1.8	1.8		9.3 7.6	8.5		14.1 12.4	13.2		139.9 128.8	134.3	
11-May-17	Sunny	Moderate	19:02	Surface	1	26.1 26.1	26.1	33.3 33.3	33.3	126.30 124.40	125.35	8.49 8.35	8.42	8.39	1.5 1.5	1.5	1.4	1.4 1.1	1.3	1.0	25.9 22.6	24.3	20.0	115.4 117.5	116.4	128.4
				Middle	17.4	25.9 25.8	25.8	33.6 33.6	33.6	124.20 123.60	123.90	8.38 8.33	8.36		1.3 1.4	1.4		0.8 0.6	0.7		14.1 13.5	13.8		128.6 121.1	124.8	
				Bottom	33.8	25.8 25.7	25.7	33.5 33.5	33.5	113.90 118.60	116.25	7.68 7.99	7.84	7.84	1.3 1.3	1.3		<0.5 1.5	1.0		21.5 22.1	21.8		142.7 144.8	143.8	
13-May-17	Cloudy	Moderate	6:17	Surface	1	25.6 25.4	25.5	32.3 32.8	32.5	97.70 99.20	98.45	6.65 6.75	6.70	6.57	1.8 1.7	1.8	2.2	0.6 1.8	1.2	1.2	15.6 15.9	15.7	15.1	54.7 51.4	53.1	48.3
				Middle	16.9	24.6 24.3	24.4	34.1 34.5	34.3	96.50 90.90	93.70	6.60 6.26	6.43		2.2 2.5	2.4		0.8 1.8	1.3		16.7 16.8	16.7		51.1 51.7	51.4	
				Bottom	32.8	24.8 24.2	24.5	33.9 34.6	34.3	92.00 87.20	89.60	6.31 6.00	6.16	6.16	2.4 2.5	2.5		1.7 <0.5	1.1		13.0 12.8	12.9		40.0 41.1	40.6	
16-May-17	Cloudy	Moderate	7:37	Surface	1	25.6 25.6	25.6	32.5 32.5	32.5	108.70 107.20	107.95	7.39 7.29	7.34	7.29	1.5 1.5	1.5	1.5	1.9 1.7	1.8	1.6	11.8 12.4	12.1	13.5	79.4 84.1	81.7	70.6
				Middle	17.0	25.6 25.6	25.6	32.6 32.6	32.6	107.50 105.40	106.45	7.31 7.17	7.24		1.5 1.5	1.5		1.4 1.6	1.5		17.0 16.8	16.9		67.8 71.7	69.8	
				Bottom	33.0	25.5 25.5	25.5	32.9 32.7	32.8	104.60 107.20	105.90	7.11 7.29	7.20	7.20	1.5 1.5	1.5		1.2 1.5	1.4		11.0 12.1	11.5		59.3 61.2	60.3	
18-May-17	Cloudy	Moderate	4:14	Surface	1	25.7 25.7	25.7	32.8 32.8	32.8	106.90 106.90	106.90	7.25 7.25	7.25	7.24	1.4 1.4	1.4	1.4	7.3 5.2	6.3	5.3	10.2 9.6	9.9	11.3	93.4 99.4	96.4	94.0
				Middle	17.1	25.7 25.7	25.7	32.8 32.8	32.8	106.70 106.70	106.70	7.23 7.24	7.24		1.5 1.4	1.5		3.3 4.7	4.0		11.1 10.4	10.7		89.6 88.8	89.2	
				Bottom	33.1	25.7 25.7	25.7	32.8 32.8	32.8	106.50 106.70	106.60	7.22 7.23	7.23	7.23	1.5 1.4	1.5		4.6 6.5	5.6		13.3 12.9	13.1		93.4 99.1	96.2	
20-May-17	Cloudy	Rough	12:32	Surface	1	25.5 25.5	25.5	32.9 32.9	32.9	105.70 105.40	105.55	7.18 7.16	7.17	7.15	1.4 1.5	1.5	1.5	1.6 2.8	2.2	3.2	12.1 11.7	11.9	10.4	84.7 90.3	87.5	87.6
				Middle	17.0	25.5 25.5	25.5	32.9 32.9	32.9	104.60 105.00	104.80	7.11 7.14	7.13		1.5 1.5	1.5		2.2 4.3	3.3		9.6 10.8	10.2		79.5 90.4	84.9	
				Bottom	33.0	25.4 25.4	25.4	32.9 32.9	32.9	104.70 104.60	104.65	7.12 7.11	7.12	7.12	1.6 1.5	1.6		3.0 5.2	4.1		9.6 8.4	9.0		91.1 89.7	90.4	
23-May-17	Fine	Rough	16:25	Surface	1	25.5 25.5	25.5	33.5 33.5	33.5	98.40 98.20	98.30	6.66 6.65	6.66	6.61	1.9 2.0	2.0	2.1	5.2 4.8	5.0	5.3	13.8 14.2	14.0	13.1	126.2 119.7	122.9	108.4
				Middle	17.0	25.4 25.4	25.4	33.6 33.6	33.6	97.00 96.80	96.90	6.58 6.56	6.57		2.3 2.4	2.4		5.8 5.5	5.7		15.2 14.2	14.7		109.4 112.3	110.9	
				Bottom	33.0	25.4 25.4	25.4	33.6 33.6	33.6	98.70 97.50	98.10	6.69 6.61	6.65	6.65	2.0 2.2	2.1		4.6 6.0	5.3		11.1 10.3	10.7		89.6 93.4	91.5	
25-May-17	Cloudy	Rough	18:13	Surface	1	25.7 25.7	25.7	32.8 32.9	32.8	98.30 97.50	97.90	6.66 6.61	6.64	6.60	1.8 1.9	1.9	1.9	<0.5 <0.5	0.5	0.5	16.5 16.5	16.5	16.9	266.4 270.3	268.4	268.3
				Middle	17.6	25.6 25.6	25.6	33.3 33.3	33.3	96.80 97.10	96.95	6.55 6.58	6.57		2.0 2.0	2.0		<0.5 <0.5	0.5		17.0 17.1	17.1		258.3 260.3	259.3	
				Bottom	34.2	25.6 25.6	25.6	33.5 33.3	33.4	96.30 96.40	96.35	6.52 6.53	6.53	6.53	2.0 1.9	2.0		<0.5 <0.5	0.5		16.3 18.0	17.2		279.5 275.0	277.2	

Remark: * DA: Depth-Averaged

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

Water Quality Monitoring Results at G4 - Mid-Flood Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (^{o}C)		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)			Current Velocity (cm/s)			Direction		
						Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
27-May-17	Fine	Rough	5:17	Surface	1	25.6 25.6	25.6	33.2 33.2	33.2	97.20 96.60	96.90	6.59 6.55	6.57	6.53	1.8 1.9	1.9	2.0	5.2 5.3	5.3	6.1	15.2 15.8	15.5	14.1	134.7 141.4	138.1	117.7
				Middle	17.2	25.6 25.5	25.5	33.2 33.2	33.2	95.80 95.40	95.60	6.50 6.47	6.49		1.9 2.1	2.0		6.3 6.4	6.4		17.0 17.4	17.2		103.6 98.7	101.1	
				Bottom	33.4	25.5 25.5	25.5	33.2 33.2	33.2	96.00 95.60	95.80	6.51 6.48	6.50	6.50	2.0 2.0	2.0		7.0 6.6	6.8		8.7 10.6	9.6		110.9 116.8	113.8	
30-May-17	Sunny	Moderate	8:06	Surface	1	26.1 26.0	26.1	33.5 33.5	33.5	100.80 100.60	100.70	6.76 6.75	6.76	6.73	1.4 1.3	1.4	1.5	0.9 0.9	0.9	1.0	9.5 8.9	9.2	12.5	112.3 119.5	115.9	129.1
				Middle	17.3	25.9 25.9	25.9	33.4 33.4	33.4	99.70 99.50	99.60	6.71 6.70	6.71		1.5 1.4	1.5		0.9 1.0	1.0		11.6 13.7	12.7		134.3 125.7	130.0	
				Bottom	33.7	25.9 25.9	25.9	33.4 33.4	33.4	99.80 99.50	99.65	6.72 6.70	6.71	6.71	1.6 1.5	1.6		0.5 1.7	1.1		14.4 16.7	15.6		142.7 139.7	141.2	
1-Jun-17	Sunny	Moderate	10:02	Surface	1	26.3 26.3	26.3	35.5 35.5	35.5	102.70 102.40	102.55	6.78 6.77	6.78	6.74	1.8 1.9	1.9	1.8	1.2 2.0	1.6	0.9	10.7 11.2	10.9	14.4	209.9 213.5	211.7	218.5
				Middle	17.3	26.3 26.3	26.3	35.5 35.5	35.5	101.00 101.70	101.35	6.67 6.72	6.70		1.8 1.8	1.8		0.6 0.6	7.0		13.4 12.8	13.1		233.2 208.8	221.0	
				Bottom	33.6	26.1 26.1	26.1	35.7 35.7	35.7	101.00 98.60	99.80	6.69 6.53	6.61	6.61	1.8 1.8	1.8		0.5 0.6	0.6		18.1 20.0	19.0		225.6 220.0	222.8	
3-Jun-17	Sunny	Moderate	13:53	Surface	1	27.0 26.9	27.0	33.5 33.5	33.5	108.00 104.90	106.45	7.14 6.94	7.04	6.87	1.5 1.5	1.5	1.8	3.7 2.6	3.2	3.9	28.1 25.9	27.0	21.5	300.7 289.7	295.2	285.4
				Middle	17.4	26.3 26.3	26.3	35.0 35.0	35.0	101.00 100.80	100.90	6.70 6.68	6.69		1.4 1.6	1.5		7.9 5.6	6.8		19.5 21.0	20.3		296.6 304.5	300.6	
				Bottom	33.8	26.0 26.2	26.1	35.9 35.7	35.8	103.30 104.30	103.80	6.84 6.90	6.87	6.87	2.5 2.3	2.4		1.5 2.3	1.9		16.7 17.9	17.3		266.1 254.7	260.4	

Remark: * DA: Depth-Averaged

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

Water Quality Monitoring Results at G5 - Mid-Ebb Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)			Current Velocity (cm/s)			Direction		
						Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
9-May-17	Sunny	Moderate	12:47	Surface	1	25.3 25.1	25.2	33.5 33.6	33.5	108.70 102.40	105.55	7.39 6.98	7.19	6.71	1.7 1.7	1.7	1.8	3.3 2.4	2.9	3.2	14.1 14.3	14.2	18.8	111.6 119.5	115.6	95.4
				Middle	14.9	24.2 24.2	24.2	34.2 34.2	34.2	92.50 88.40	90.45	6.38 6.09	6.24		1.8 1.8	1.8		2.1 3.3	2.7		15.8 14.7	15.2		58.8 52.2	55.5	
				Bottom	28.9	24.2 24.2	24.2	34.2 34.2	34.2	90.40 88.00	89.20	6.23 6.07	6.15	6.15	1.9 1.8	1.9		3.5 4.7	4.1		26.3 27.9	27.1		115.4 114.5	114.9	
11-May-17	Sunny	Moderate	12:34	Surface	1	25.3 25.5	25.4	33.5 33.4	33.4	103.60 109.50	106.55	7.04 7.43	7.24	6.96	1.9 1.7	1.8	2.1	1.1 0.9	1.0	1.0	28.0 26.3	27.2	31.1	45.3 49.0	47.1	56.3
				Middle	15.1	24.8 24.8	24.8	34.0 34.0	34.0	98.50 97.00	97.75	6.73 6.63	6.68		2.2 2.3	2.3		1.2 0.6	0.9		33.0 33.6	33.3		37.0 36.0	36.5	
				Bottom	29.2	24.8 24.8	24.8	34.0 34.0	34.0	99.10 99.60	99.35	6.78 6.81	6.80	6.80	2.3 2.2	2.3		1.4 1.0	1.2		32.5 33.3	32.9		85.7 85.0	85.4	
13-May-17	Fine	Moderate	13:07	Surface	1	25.8 25.6	25.7	32.6 32.9	32.7	104.80 98.30	101.55	7.10 6.67	6.89	6.77	2.2 2.1	2.2	2.8	4.5 5.0	4.8	5.5	14.7 12.6	13.7	11.8	42.3 38.7	40.5	46.0
				Middle	15.0	24.7 24.7	24.7	34.1 34.1	34.1	97.00 96.90	96.95	6.65 6.65	6.65		3.1 3.0	3.1		6.2 5.2	5.7		11.9 10.2	11.0		54.3 51.6	53.0	
				Bottom	29.1	24.4 24.5	24.5	34.4 34.3	34.3	92.20 92.80	92.50	6.31 6.34	6.33	6.33	3.1 3.1	3.1		5.8 6.4	6.1		10.7 10.8	10.7		44.1 44.8	44.4	
16-May-17	Cloudy	Moderate	14:20	Surface	1	25.6 25.6	25.6	32.5 32.6	32.6	108.90 108.00	108.45	7.41 7.35	7.38	7.35	1.5 1.5	1.5	1.5	0.7 1.1	0.9	0.9	13.1 12.9	13.0	11.3	54.2 48.4	51.3	53.4
				Middle	15.0	25.6 25.5	25.5	32.6 32.6	32.6	107.20 107.90	107.55	7.29 7.34	7.32		1.5 1.5	1.5		0.6 0.9	0.8		11.1 11.9	11.5		60.3 55.8	58.1	
				Bottom	29.0	25.5 25.5	25.5	32.7 32.8	32.7	106.50 107.40	106.95	7.24 7.31	7.28	7.28	1.5 1.5	1.5		0.8 1.0	0.9		9.9 8.8	9.3		51.7 49.9	50.8	
18-May-17	Fine	Moderate	16:16	Surface	1	25.8 25.8	25.8	32.8 32.8	32.8	110.30 110.30	110.30	7.46 7.47	7.47	7.44	1.6 1.7	1.7	1.7	6.9 6.0	6.5	5.6	22.1 19.6	20.8	17.6	57.8 63.5	60.6	58.5
				Middle	15.2	25.8 25.7	25.7	32.8 32.8	32.8	109.40 109.40	109.40	7.41 7.40	7.41		1.9 1.8	1.9		8.4 6.6	7.5		17.1 16.6	16.9		39.7 44.2	41.9	
				Bottom	29.4	25.7 25.7	25.7	32.8 32.8	32.8	109.70 109.50	109.60	7.43 7.41	7.42	7.42	1.7 1.7	1.7		2.5 3.1	2.8		15.6 14.5	15.0		74.9 70.7	72.8	
20-May-17	Cloudy	Rough	8:16	Surface	1	25.5 25.5	25.5	32.9 32.9	32.9	104.80 105.10	104.95	7.13 7.15	7.14	7.13	1.5 1.5	1.5	1.5	5.2 3.9	4.6	3.6	17.5 19.2	18.3	19.7	253.4 260.8	257.1	263.1
				Middle	15.0	25.5 25.4	25.4	32.9 32.9	32.9	104.90 104.70	104.80	7.13 7.12	7.13		1.5 1.5	1.5		4.2 2.5	3.4		21.1 22.7	21.9		266.3 261.2	263.8	
				Bottom	29.0	25.5 25.4	25.4	32.9 32.9	32.9	104.80 104.60	104.70	7.13 7.12	7.13	7.13	1.5 1.5	1.5		2.1 3.9	3.0		18.7 19.1	18.9		271.3 265.8	268.6	
23-May-17	Sunny	Rough	10:07	Surface	1	25.5 25.5	25.5	33.5 33.5	33.5	99.90 99.80	99.85	6.76 6.76	6.76	6.74	1.6 1.5	1.6	1.5	1.5 1.1	1.3	1.1	15.0 12.7	13.9	12.5	57.7 49.3	53.5	84.6
				Middle	15.1	25.4 25.4	25.4	33.6 33.6	33.6	99.20 99.30	99.25	6.72 6.73	6.73		1.4 1.5	1.5		0.5 <0.5	0.5		10.0 10.7	10.3		79.0 85.7	82.3	
				Bottom	29.3	25.4 25.4	25.4	33.6 33.6	33.6	99.40 99.20	99.30	6.74 6.72	6.73	6.73	1.5 1.4	1.5		1.8 1.3	1.6		12.8 13.8	13.3		113.7 122.1	117.9	
25-May-17	Sunny	Rough	11:44	Surface	1	25.8 25.8	25.8	32.7 32.6	32.6	96.80 96.90	96.85	6.56 6.57	6.57	6.54	2.4 2.4	2.4	2.5	1.1 1.9	1.5	1.1	23.7 22.6	23.2	21.5	107.4 105.4	106.4	106.3
				Middle	14.9	25.6 25.6	25.6	33.5 33.5	33.5	96.20 96.30	96.25	6.51 6.51	6.51		2.6 2.6	2.6		<0.5 <0.5	0.5		21.7 20.5	21.1		110.3 107.3	108.8	
				Bottom	28.9	25.6 25.6	25.6	33.5 33.5	33.5	95.30 95.50	95.40	6.45 6.46	6.46	6.46	2.6 2.6	2.6		1.2 1.2	1.2		20.8 19.4	20.1		104.8 102.7	103.7	

Remark: * DA: Depth-Averaged

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

Water Quality Monitoring Results at G5 - Mid-Ebb Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)			Current Velocity (cm/s)			Direction		
						Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
27-May-17	Sunny	Moderate	12:46	Surface	1	25.8 25.7	25.8	32.7 32.7	32.7	96.10 97.30	96.70	6.51 6.60	6.56	6.68	1.9 1.9	1.9	1.8	4.5 4.3	4.4	4.8	16.1 17.4	16.8	14.7	59.3 60.6	60.0	55.2
				Middle	15.1	25.6 25.6	25.6	32.9 32.9	32.9	99.10 101.30	100.20	6.73 6.88	6.81		1.6 1.6	1.6		4.0 4.7	4.4		13.6 12.7	13.1		67.3 63.9	65.6	
				Bottom	29.1	25.4 25.4	25.4	33.0 32.9	32.9	98.40 102.00	100.20	6.69 6.94	6.82	6.82	1.9 1.7	1.8		6.7 4.6	5.7		14.7 14.0	14.3		39.5 40.7	40.1	
30-May-17	Fine	Moderate	15:36	Surface	1	26.1 26.1	26.1	32.9 32.9	32.9	98.80 99.00	98.90	6.65 6.66	6.66	6.60	1.7 1.8	1.8	1.8	1.1 1.4	1.3	1.1	7.6 7.9	7.7	9.8	26.9 17.3	22.1	25.3
				Middle	15.4	25.9 25.9	25.9	32.9 32.9	32.9	97.30 96.90	97.10	6.56 6.54	6.55		1.9 1.8	1.9		1.0 1.6	1.3		10.9 10.0	10.4		30.3 41.6	35.9	
				Bottom	29.8	25.9 25.9	25.9	33.0 33.0	33.0	97.00 97.00	97.00	6.55 6.55	6.55	6.55	1.9 1.8	1.9		<0.5 0.7	0.6		10.7 11.7	11.2		20.5 15.3	17.9	
1-Jun-17	Fine	Moderate	17:33	Surface	1	26.4 26.4	26.4	35.6 35.6	35.6	104.50 103.30	103.90	6.89 6.81	6.85	6.72	1.8 1.9	1.9	1.9	1.4 2.7	2.1	2.7	14.8 15.8	15.3	14.7	100.1 113.4	106.8	103.4
				Middle	15.1	26.0 26.0	26.0	35.9 36.0	35.9	99.20 99.60	99.40	6.57 6.60	6.59		1.9 1.9	1.9		2.7 4.0	2.7		11.9 13.1	12.5		80.9 83.4	82.2	
				Bottom	29.3	26.0 26.0	26.0	36.0 36.0	36.0	99.30 101.00	100.15	6.58 6.69	6.64	6.64	2.0 2.0	2.0		2.4 3.0	2.7		16.6 15.9	16.2		123.4 119.0	121.2	
3-Jun-17	Fine	Moderate	8:08	Surface	1	27.1 27.1	27.1	34.0 33.9	33.9	111.50 111.50	111.50	7.34 7.34	7.34	7.20	1.3 1.5	1.4	1.5	6.8 3.6	5.2	4.1	26.6 27.8	27.2	27.1	130.6 122.7	126.7	115.1
				Middle	15.3	26.9 26.4	26.7	34.0 34.9	34.4	108.70 104.80	106.75	7.17 6.94	7.06		1.5 1.5	1.5		5.3 3.5	4.4		22.9 25.5	24.2		98.2 100.2	99.2	
				Bottom	29.6	26.4 26.3	26.4	35.2 35.2	35.2	107.40 101.60	104.50	7.10 6.72	6.91	6.91	1.8 1.6	1.7		3.4 2.1	2.8		30.9 29.1	30.0		122.5 116.5	119.5	

Remark: * DA: Depth-Averaged

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

Water Quality Monitoring Results at G5 - Mid-Flood Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)			Current Velocity (cm/s)			Direction		
						Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
9-May-17	Sunny	Moderate	17:23	Surface	1	25.3 25.2	25.2	33.7 33.8	33.8	104.60 105.00	104.80	7.10 7.13	7.12	6.97	1.8 1.7	1.8	2.0	5.5 5.7	5.6	6.8	26.4 24.4	25.4	22.1	46.3 41.8	44.0	96.6
				Middle	15.1	24.8 24.8	24.8	34.2 34.2	34.2	100.10 100.00	100.05	6.83 6.82	6.83		2.1 2.1	2.1		5.1 5.9	5.5		27.6 26.3	26.9		138.9 131.8	135.3	
				Bottom	29.3	24.8 24.8	24.8	34.3 34.3	34.3	98.30 97.40	97.85	6.71 6.65	6.68	6.68	2.2 2.1	2.2		10.4 8.0	9.2		14.8 13.1	13.9		110.4 110.7	110.6	
11-May-17	Sunny	Moderate	18:37	Surface	1	26.3 26.1	26.2	33.5 33.5	33.5	119.00 118.40	118.70	7.96 7.94	7.95	7.73	1.6 1.7	1.7	2.0	1.0 1.7	1.4	1.1	26.0 26.5	26.2	24.4	81.2 81.1	81.2	83.4
				Middle	15.6	25.3 25.2	25.2	33.7 33.7	33.7	111.50 109.40	110.45	7.58 7.43	7.51		2.2 2.3	2.3		0.8 1.5	1.2		24.0 23.4	23.7		67.3 64.1	65.7	
				Bottom	30.2	25.2 25.2	25.2	33.7 33.7	33.7	107.70 113.40	110.55	7.32 7.71	7.52	7.52	2.1 2.0	2.1		0.8 1.0	0.9		23.2 23.6	23.4		101.2 105.5	103.3	
13-May-17	Cloudy	Moderate	6:44	Surface	1	25.5 25.6	25.5	32.5 32.3	32.4	95.00 96.90	95.95	6.53 6.59	6.56	6.51	1.9 1.8	1.9	2.1	1.2 1.3	1.3	1.3	9.8 9.6	9.7	14.5	149.7 142.2	146.0	156.4
				Middle	15.0	24.2 24.2	24.2	34.6 34.6	34.6	94.80 94.00	94.40	6.46 6.46	6.46		2.2 2.1	2.2		1.0 1.8	1.4		13.9 15.2	14.6		159.5 159.6	159.5	
				Bottom	29.0	24.4 24.3	24.4	34.4 34.5	34.4	90.80 90.10	90.45	6.25 6.20	6.23	6.23	2.2 2.2	2.2		0.7 1.8	1.3		19.8 19.0	19.4		166.2 161.3	163.8	
16-May-17	Cloudy	Moderate	8:25	Surface	1	25.6 25.6	25.6	32.6 32.6	32.6	108.50 108.70	108.60	7.38 7.39	7.39	7.38	1.5 1.5	1.5	1.5	4.6 3.8	4.2	4.1	11.2 12.3	11.7	14.1	132.6 128.8	130.7	146.9
				Middle	15.0	25.6 25.6	25.6	32.7 32.6	32.6	108.40 108.20	108.30	7.37 7.36	7.37		1.5 1.5	1.5		3.6 4.6	4.1		14.4 13.7	14.1		143.4 161.0	152.2	
				Bottom	29.0	25.6 25.6	25.6	32.6 32.7	32.6	108.20 107.90	108.05	7.36 7.34	7.35	7.35	1.5 1.5	1.5		3.7 4.1	3.9		15.7 17.0	16.4		162.4 153.1	157.7	
18-May-17	Cloudy	Moderate	4:56	Surface	1	25.7 25.7	25.7	32.8 32.8	32.8	106.10 106.20	106.15	7.19 7.20	7.20	7.19	1.4 1.4	1.4	1.4	5.2 7.2	6.2	7.9	12.0 11.4	11.7	11.9	171.4 184.1	177.8	166.8
				Middle	15.0	25.7 25.7	25.7	32.8 32.8	32.8	105.90 106.10	106.00	7.18 7.19	7.19		1.4 1.4	1.4		8.4 6.5	7.5		11.0 11.8	11.4		167.5 160.5	164.0	
				Bottom	29.0	25.7 25.7	25.7	32.8 32.8	32.8	105.60 105.90	105.75	7.16 7.18	7.17	7.17	1.5 1.4	1.5		11.2 8.8	10.0		12.3 13.0	12.6		156.0 161.1	158.6	
20-May-17	Cloudy	Rough	11:54	Surface	1	25.5 25.5	25.5	32.9 32.9	32.9	105.40 105.50	105.45	7.16 7.17	7.17	7.16	1.6 1.5	1.6	1.6	1.1 2.4	1.8	3.1	14.3 13.9	14.1	13.9	160.1 159.2	159.7	170.1
				Middle	15.0	25.5 25.5	25.5	32.9 32.9	32.9	105.10 105.30	105.20	7.15 7.16	7.16		1.5 1.6	1.6		2.7 4.5	3.6		15.0 14.7	14.8		171.1 180.0	175.6	
				Bottom	29.0	25.5 25.5	25.5	32.9 32.9	32.9	105.10 105.30	105.20	7.15 7.16	7.16	7.16	1.5 1.6	1.6		3.0 4.9	4.0		12.4 13.0	12.7		178.8 171.1	175.0	
23-May-17	Fine	Rough	15:47	Surface	1	25.6 25.6	25.6	33.5 33.5	33.5	101.40 102.00	101.70	6.87 6.90	6.89	6.85	1.5 1.7	1.6	1.6	3.7 4.2	4.0	4.1	13.5 12.1	12.8	11.6	83.3 86.2	84.8	122.7
				Middle	15.1	25.5 25.5	25.5	33.6 33.6	33.6	100.60 100.60	100.60	6.82 6.81	6.82		1.6 1.6	1.6		3.9 4.9	4.4		9.9 10.7	10.3		120.7 116.6	118.6	
				Bottom	29.2	25.5 25.5	25.5	33.6 33.5	33.5	100.70 100.80	100.75	6.82 6.83	6.83	6.83	1.6 1.5	1.6		3.6 4.5	4.1		12.2 11.4	11.8		169.2 160.3	164.8	
25-May-17	Cloudy	Rough	17:38	Surface	1	25.7 25.7	25.7	33.0 32.9	33.0	98.30 98.20	98.25	6.66 6.65	6.66	6.64	1.9 1.9	1.9	1.9	1.2 1.6	1.4	0.8	26.5 25.9	26.2	28.3	260.1 256.1	258.1	253.8
				Middle	15.3	25.6 25.6	25.6	33.3 33.3	33.3	98.30 97.40	97.85	6.65 6.59	6.62		1.9 2.0	2.0		<0.5 0.6	0.6		33.5 31.7	32.6		253.8 249.8	251.8	
				Bottom	29.6	25.6 25.6	25.6	33.3 33.4	33.3	96.90 97.30	97.10	6.56 6.59	6.58	6.58	2.0 1.9	2.0		<0.5 <0.5	0.5		25.3 26.8	26.1		249.9 253.2	251.5	

Remark: * DA: Depth-Averaged

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

Water Quality Monitoring Results at G5 - Mid-Flood Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)			Current Velocity (cm/s)			Direction		
						Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
27-May-17	Fine	Rough	5:55	Surface	1	25.6 25.6	25.6	33.2 33.2	33.2	95.60 94.90	95.25	6.47 6.43	6.45	6.41	1.9 2.0	2.0	2.1	6.3 6.4	6.4	6.1	20.1 21.1	20.6	16.5	90.9 93.7	92.3	97.9
				Middle	15.3	25.6 25.6	25.6	33.3 33.3	33.3	94.10 94.10	94.10	6.37 6.37	6.37		2.3 2.2	2.3		6.7 6.0	6.4		14.4 13.3	13.8		72.7 80.1	76.4	
				Bottom	29.5	25.6 25.6	25.6	33.3 33.3	33.3	94.20 94.50	94.35	6.38 6.40	6.39	6.39	2.0 2.1	2.1		6.0 5.3	5.7		15.8 14.1	15.0		123.5 126.1	124.8	
30-May-17	Sunny	Moderate	8:45	Surface	1	25.9 25.9	25.9	33.3 33.3	33.3	100.20 100.30	100.25	6.75 6.76	6.76	6.71	1.6 1.5	1.6	1.7	1.4 0.7	1.1	1.0	11.6 12.1	11.8	12.5	97.5 100.9	99.2	97.0
				Middle	15.3	25.9 25.9	25.9	33.4 33.4	33.4	98.90 99.20	99.05	6.66 6.68	6.67		1.6 1.7	1.7		0.9 1.6	1.3		15.6 15.7	15.7		129.2 122.9	126.0	
				Bottom	29.6	25.9 25.8	25.8	33.4 33.5	33.4	99.60 98.80	99.20	6.71 6.66	6.69	6.69	2.0 1.8	1.9		1.1 <0.5	0.8		9.2 10.7	10.0		62.2 69.3	65.8	
1-Jun-17	Sunny	Moderate	10:40	Surface	1	26.3 26.3	26.3	35.5 35.5	35.5	102.20 101.10	101.65	6.76 6.68	6.72	6.68	2.0 2.0	2.0	1.9	0.8 0.8	0.8	1.7	18.8 17.2	18.0	18.5	168.8 172.3	170.5	188.1
				Middle	15.0	26.2 26.1	26.2	35.5 35.6	35.6	100.80 99.90	100.35	6.67 6.61	6.64		2.0 1.8	1.9		3.0 1.8	5.5		20.3 21.4	20.9		180.0 187.7	183.9	
				Bottom	29.0	26.0 26.0	26.0	35.9 35.9	35.9	100.20 99.00	99.60	6.64 6.56	6.60	6.60	1.8 1.7	1.8		1.2 2.4	1.8		17.1 15.9	16.5		204.5 215.3	209.9	
3-Jun-17	Sunny	Moderate	13:11	Surface	1	27.0 27.0	27.0	34.0 34.0	34.0	113.20 113.60	113.40	7.46 7.48	7.47	7.31	1.5 1.4	1.5	1.6	1.6 2.2	1.9	2.0	24.4 26.6	25.5	22.7	200.3 213.4	206.9	195.0
				Middle	15.6	26.6 26.5	26.5	34.6 34.6	34.6	107.10 109.20	108.15	7.08 7.23	7.16		1.6 1.6	1.6		3.3 2.4	2.9		18.8 20.4	19.6		176.6 174.4	175.5	
				Bottom	30.1	26.4 26.4	26.4	35.0 35.1	35.0	109.70 105.10	107.40	7.26 6.95	7.11	7.11	1.9 1.8	1.9		2.2 <0.5	1.4		22.2 23.8	23.0		199.7 205.8	202.7	

Remark: * DA: Depth-Averaged

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

Water Quality Monitoring Results at C1 - Mid-Ebb Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)			Current Velocity (cm/s)			Direction		
						Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
9-May-17	Sunny	Moderate	13:33	Surface	1	25.0 25.3	25.2	33.8 33.7	33.8	104.80 108.50	106.65	7.14 7.36	7.25	7.02	1.9 1.9	1.9	2.0	5.0 5.4	5.2	5.4	17.8 17.5	17.6	16.1	51.2 50.2	50.7	47.5
				Middle	17.5	24.3 24.4	24.4	34.3 34.2	34.2	100.50 97.00	98.75	6.91 6.66	6.79		1.7 1.8	1.8		4.0 5.4	4.7		15.2 14.1	14.7		35.4 36.8	36.1	
				Bottom	33.8	24.4 24.4	24.4	34.2 34.2	34.2	98.40 96.00	97.20	6.76 6.60	6.68	6.68	2.2 2.2	2.2		7.3 5.3	6.3		15.7 16.5	16.1		57.2 54.2	55.7	
11-May-17	Sunny	Moderate	13:42	Surface	1	26.6 26.6	26.6	33.5 33.5	33.5	110.30 114.40	112.35	7.33 7.61	7.47	7.29	1.4 1.2	1.3	1.6	0.8 <0.5	0.7	0.8	33.8 32.1	33.0	28.0	48.0 48.4	48.2	73.9
				Middle	16.8	24.9 25.0	25.0	34.1 34.1	34.1	103.00 105.40	104.20	7.02 7.18	7.10		1.8 1.8	1.8		<0.5 <0.5	0.5		20.5 21.9	21.2		70.2 70.9	70.5	
				Bottom	32.6	24.8 24.9	24.8	34.3 34.2	34.2	107.70 108.40	108.05	7.36 7.40	7.38	7.38	1.7 1.7	1.7		1.5 0.7	1.1		30.6 29.3	29.9		102.9 103.2	103.1	
13-May-17	Fine	Moderate	11:47	Surface	1	25.4 25.1	25.3	32.9 33.3	33.1	97.30 95.90	96.60	6.62 6.58	6.60	6.55	2.3 2.1	2.2	2.3	3.1 3.8	3.5	5.0	12.6 11.5	12.1	12.6	61.2 60.3	60.7	72.0
				Middle	17.1	24.3 24.3	24.3	34.7 34.7	34.7	95.60 94.70	95.15	6.55 6.46	6.51		2.3 2.4	2.4		3.8 3.6	3.7		12.2 11.6	11.9		67.9 68.2	68.1	
				Bottom	33.1	24.4 24.5	24.4	34.6 34.5	34.5	91.80 92.60	92.20	6.30 6.36	6.33	6.33	2.4 2.3	2.4		7.3 8.2	7.8		14.6 13.2	13.9		88.6 85.7	87.2	
16-May-17	Cloudy	Moderate	13:27	Surface	1	25.7 25.7	25.7	32.0 32.0	32.0	106.90 107.30	107.10	7.28 7.30	7.29	7.22	1.6 1.6	1.6	1.6	1.0 1.3	1.2	1.1	10.9 11.4	11.1	12.7	90.6 87.3	89.0	87.5
				Middle	17.6	25.7 25.7	25.7	32.3 32.2	32.2	106.50 104.00	105.25	7.24 7.07	7.16		1.6 1.6	1.6		0.8 1.2	1.0		12.2 10.9	11.5		96.7 92.4	94.5	
				Bottom	34.0	25.5 25.6	25.6	32.6 32.5	32.6	102.90 105.70	104.30	7.00 7.19	7.10	7.10	1.6 1.6	1.6		0.9 1.5	1.2		16.0 14.9	15.5		80.1 77.9	79.0	
18-May-17	Fine	Moderate	15:18	Surface	1	25.8 25.8	25.8	32.8 32.8	32.8	109.60 109.50	109.55	7.41 7.41	7.41	7.38	1.6 1.6	1.6	1.7	3.1 4.2	3.7	3.1	8.5 9.9	9.2	9.1	60.0 63.7	61.8	97.9
				Middle	16.8	25.8 25.8	25.8	32.8 32.8	32.8	108.60 108.40	108.50	7.35 7.33	7.34		1.7 1.7	1.7		4.2 4.2	4.2		7.5 8.1	7.8		90.9 93.7	92.3	
				Bottom	32.5	25.8 25.8	25.8	32.8 32.8	32.8	107.80 109.20	108.50	7.29 7.39	7.34	7.34	1.7 1.7	1.7		1.7 1.0	1.4		10.9 9.4	10.2		142.2 136.8	139.5	
20-May-17	Cloudy	Rough	9:12	Surface	1	25.5 25.5	25.5	32.9 32.9	32.9	105.90 106.10	106.00	7.19 7.21	7.20	7.19	1.4 1.3	1.4	1.4	5.0 5.6	5.3	5.2	18.9 20.1	19.5	19.4	301.1 304.0	302.6	304.5
				Middle	17.6	25.5 25.5	25.5	32.9 32.9	32.9	105.80 105.20	105.50	7.19 7.15	7.17		1.4 1.5	1.5		4.7 2.9	3.8		16.5 17.8	17.1		298.8 303.1	300.9	
				Bottom	34.0	25.5 25.5	25.5	32.9 32.9	32.9	104.80 105.70	105.25	7.12 7.18	7.15	7.15	1.5 1.5	1.5		7.3 5.5	6.4		22.1 21.1	21.6		311.4 308.6	310.0	
23-May-17	Sunny	Rough	11:18	Surface	1	25.4 25.4	25.4	33.5 33.5	33.5	101.80 101.80	101.80	6.91 6.91	6.91	6.88	1.2 1.2	1.2	1.2	3.8 2.2	3.0	3.4	20.1 19.5	19.8	14.6	69.9 71.7	70.8	64.7
				Middle	17.7	25.3 25.3	25.3	33.6 33.6	33.6	100.90 100.80	100.85	6.85 6.84	6.85		1.2 1.2	1.2		3.8 3.4	3.6		14.8 13.5	14.1		74.3 77.5	75.9	
				Bottom	34.3	25.3 25.3	25.3	33.6 33.6	33.6	100.70 101.00	100.85	6.84 6.86	6.85	6.85	1.2 1.2	1.2		3.3 3.7	3.5		10.5 9.6	10.0		44.7 49.8	47.2	
25-May-17	Sunny	Rough	12:59	Surface	1	25.7 25.8	25.8	32.5 32.6	32.5	98.60 98.80	98.70	6.69 6.70	6.70	6.65	1.9 1.8	1.9	2.1	<0.5 <0.5	0.5	0.6	31.5 30.1	30.8	33.4	110.7 109.8	110.3	118.0
				Middle	17.2	25.6 25.6	25.6	33.4 33.2	33.3	97.80 97.40	97.60	6.61 6.59	6.60		2.2 2.3	2.3		0.9 <0.5	0.7		40.6 38.2	39.4		120.5 118.5	119.5	
				Bottom	33.1	25.6 25.6	25.6	33.5 33.4	33.4	96.00 96.50	96.25	6.50 6.54	6.52	6.52	2.2 2.3	2.3		<0.5 0.5	0.5		29.8 30.1	30.0		123.6 124.8	124.2	

Remark: * DA: Depth-Averaged

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

Water Quality Monitoring Results at C1 - Mid-Ebb Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)			Current Velocity (cm/s)			Direction		
						Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
27-May-17	Sunny	Moderate	11:35	Surface	1	25.7 25.7	25.7	32.8 32.8	32.8	101.50 101.80	101.65	6.88 6.90	6.89	6.87	1.6 1.5	1.6	1.5	4.3 4.2	4.3	6.2	9.8 10.3	10.0	12.2	65.7 66.8	66.3	94.2
				Middle	17.7	25.5 25.5	25.5	33.1 33.0	33.0	100.70 100.90	100.80	6.84 6.86	6.85		1.5 1.4	1.5		5.6 7.0	6.3		12.8 13.1	13.0		80.7 82.4	81.6	
				Bottom	34.2	25.5 25.5	25.5	33.0 33.1	33.1	101.20 101.10	101.15	6.87 6.87	6.87		1.4 1.4	1.4		7.0 9.1	8.1		13.3 13.7	13.5		133.3 136.3	134.8	
30-May-17	Fine	Moderate	14:30	Surface	1	26.1 26.1	26.1	32.8 32.8	32.8	98.20 98.30	98.25	6.61 6.62	6.62	6.61	1.7 1.7	1.7	1.8	<0.5 <0.5	0.5	0.6	14.3 13.9	14.1	12.2	303.7 315.9	309.8	302.8
				Middle	17.6	25.9 26.0	25.9	33.0 33.0	33.0	97.70 98.00	97.85	6.59 6.60	6.60		1.9 1.8	1.9		1.1 0.6	0.9		10.7 11.1	10.9		265.1 279.8	272.5	
				Bottom	34.0	26.0 26.0	26.0	33.1 33.2	33.2	97.80 97.80	97.80	6.58 6.58	6.58	6.58	1.7 1.8	1.8		<0.5 <0.5	0.5		12.6 10.7	11.6		320.6 331.4	326.0	
1-Jun-17	Fine	Moderate	16:17	Surface	1	26.4 26.4	26.4	35.6 35.6	35.6	105.30 106.60	105.95	6.95 7.03	6.99	6.86	1.8 1.8	1.8	1.8	3.4 2.8	3.1	2.3	16.8 17.2	17.0	15.7	73.9 75.5	74.7	85.1
				Middle	17.5	26.1 26.1	26.1	35.7 35.7	35.7	101.40 101.80	101.60	6.71 6.74	6.73		1.8 1.9	1.9		1.4 2.6	4.7		14.0 14.7	14.3		93.4 90.5	91.9	
				Bottom	33.7	26.0 26.0	26.0	35.9 35.9	35.9	103.10 99.60	101.35	6.83 6.60	6.72	6.72	1.8 1.7	1.8		1.3 2.1	1.7		15.1 16.2	15.7		90.0 87.4	88.7	
3-Jun-17	Fine	Moderate	9:16	Surface	1	27.2 27.1	27.1	33.9 33.9	33.9	113.90 110.40	112.15	7.49 7.26	7.38	7.23	1.4 1.5	1.5	1.6	6.5 7.6	7.1	5.8	18.5 20.1	19.3	17.8	57.7 60.6	59.1	78.1
				Middle	17.3	26.7 26.5	26.6	34.2 34.6	34.4	108.10 105.70	106.90	7.15 7.00	7.08		1.6 1.5	1.6		4.6 6.7	5.7		16.2 15.8	16.0		80.9 83.4	82.2	
				Bottom	33.5	26.3 26.4	26.3	35.4 35.2	35.3	107.30 107.70	107.50	7.10 7.12	7.11	7.11	1.6 1.8	1.7		3.6 5.8	4.7		19.1 17.2	18.2		96.4 89.7	93.1	

Remark: * DA: Depth-Averaged

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

Water Quality Monitoring Results at C1 - Mid-Flood Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (^{o}C)		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)			Current Velocity (cm/s)			Direction		
						Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
9-May-17	Sunny	Moderate	16:12	Surface	1	25.1 25.1	25.1	33.8 33.8	33.8	105.90 105.90	105.90	7.22 7.21	7.22	7.03	2.0 2.0	2.0	2.0	5.4 5.4	5.4	4.7	11.6 12.2	11.9	17.5	321.9 343.8	332.9	152.9
				Middle	17.6	24.8 24.8	24.8	34.2 34.2	34.2	100.80 99.90	100.35	6.88 6.82	6.85		2.0 2.0	2.0		4.7 4.0	4.4		18.9 18.9	18.9		59.4 60.9	60.2	
				Bottom	34.1	24.7 24.8	24.8	34.3 34.3	34.3	100.10 100.80	100.45	6.83 6.88	6.86	6.86	2.1 2.1	2.1		3.7 5.1	4.4		21.2 22.2	21.7		59.3 71.7	65.5	
11-May-17	Sunny	Moderate	17:27	Surface	1	26.8 26.8	26.8	33.5 33.5	33.5	114.20 115.80	115.00	7.57 7.67	7.62	7.50	1.3 1.2	1.3	1.7	2.1 1.1	1.6	1.5	16.3 19.8	18.1	21.3	68.9 70.8	69.9	67.1
				Middle	17.0	25.4 25.3	25.4	33.6 33.8	33.7	111.30 105.90	108.60	7.55 7.19	7.37		1.7 1.7	1.7		1.4 1.4	1.4		22.5 21.2	21.9		64.1 65.2	64.7	
				Bottom	33.0	24.9 24.9	24.9	34.2 34.1	34.1	108.80 104.30	106.55	7.41 7.11	7.26	7.26	2.0 2.0	2.0		1.1 1.9	1.5		24.8 23.4	24.1		65.4 68.1	66.7	
13-May-17	Cloudy	Moderate	7:57	Surface	1	25.3 25.3	25.3	33.0 33.1	33.0	98.30 96.70	97.50	6.70 6.59	6.65	6.57	1.9 1.8	1.9	2.1	5.6 5.7	5.7	6.1	8.2 8.6	8.4	9.1	275.9 287.6	281.7	273.8
				Middle	17.4	24.3 24.3	24.3	34.7 34.7	34.7	93.80 95.40	94.60	6.44 6.55	6.50		2.2 2.2	2.2		6.8 6.1	6.5		8.7 8.2	8.5		285.0 293.4	289.2	
				Bottom	33.8	24.4 24.2	24.3	34.6 34.7	34.6	91.80 91.80	91.80	6.30 6.30	6.30	6.30	2.1 2.1	2.1		5.6 6.5	6.1		10.5 10.3	10.4		249.2 251.8	250.5	
16-May-17	Cloudy	Moderate	9:26	Surface	1	25.7 25.7	25.7	32.0 32.0	32.0	106.90 106.00	106.45	7.28 7.21	7.25	7.20	1.6 1.6	1.6	1.6	1.0 1.0	1.0	0.9	13.1 11.9	12.5	12.6	134.2 140.5	137.3	122.5
				Middle	17.5	25.7 25.7	25.7	32.2 32.1	32.1	105.10 105.10	105.10	7.15 7.15	7.15		1.6 1.6	1.6		0.8 0.6	0.7		14.0 16.1	15.1		110.3 108.9	109.6	
				Bottom	34.1	25.6 25.6	25.6	32.5 32.4	32.5	105.10 103.60	104.35	7.15 7.05	7.10	7.10	1.6 1.6	1.6		1.3 0.7	1.0		10.0 10.7	10.3		122.7 118.6	120.6	
18-May-17	Cloudy	Moderate	5:56	Surface	1	25.7 25.7	25.7	32.8 32.8	32.8	107.40 107.50	107.45	7.28 7.29	7.29	7.28	1.5 1.4	1.5	1.5	4.1 6.3	5.2	5.3	11.4 10.6	11.0	10.8	151.7 148.6	150.1	139.2
				Middle	17.5	25.7 25.7	25.7	32.8 32.8	32.8	107.10 107.20	107.15	7.26 7.27	7.27		1.5 1.4	1.5		5.6 6.9	6.3		12.0 12.2	12.1		122.4 130.0	126.2	
				Bottom	34.0	25.7 25.7	25.7	32.8 32.8	32.8	107.00 107.10	107.05	7.26 7.26	7.26	7.26	1.5 1.4	1.5		5.4 3.4	4.4		9.7 9.0	9.3		143.1 139.3	141.2	
20-May-17	Cloudy	Rough	10:55	Surface	1	25.5 25.5	25.5	32.9 32.9	32.9	105.90 106.00	105.95	7.19 7.20	7.20	7.19	1.5 1.4	1.5	1.5	3.8 4.1	4.0	3.1	14.1 15.2	14.6	15.4	163.3 151.0	157.1	132.9
				Middle	17.5	25.5 25.5	25.5	32.9 32.9	32.9	105.70 105.90	105.80	7.18 7.20	7.19		1.5 1.4	1.5		5.4 3.3	4.4		15.1 15.1	15.1		120.2 119.1	119.7	
				Bottom	34.0	25.5 25.5	25.5	32.9 32.9	32.9	105.70 105.60	105.65	7.18 7.17	7.18	7.18	1.5 1.6	1.6		0.7 1.4	1.1		17.0 16.2	16.6		120.3 123.3	121.8	
23-May-17	Fine	Rough	14:39	Surface	1	25.5 25.5	25.5	33.5 33.5	33.5	102.50 102.40	102.45	6.94 6.94	6.94	6.91	1.3 1.3	1.3	1.3	2.2 3.2	2.7	3.2	16.8 15.8	16.3	14.8	78.8 80.2	79.5	71.6
				Middle	17.7	25.4 25.4	25.4	33.6 33.6	33.6	101.30 101.60	101.45	6.87 6.90	6.89		1.3 1.3	1.3		3.4 3.6	3.5		17.1 16.0	16.6		61.2 63.3	62.3	
				Bottom	34.4	25.4 25.4	25.4	33.6 33.6	33.6	100.90 101.60	101.25	6.85 6.90	6.88	6.88	1.3 1.3	1.3		2.6 4.0	3.3		10.9 12.1	11.5		72.2 73.9	73.1	
25-May-17	Cloudy	Rough	16:32	Surface	1	25.7 25.7	25.7	32.5 32.5	32.5	99.80 99.30	99.55	6.77 6.74	6.76	6.71	1.7 1.8	1.8	2.3	1.5 1.2	1.4	1.2	31.1 30.6	30.9	30.5	203.5 210.1	206.8	209.2
				Middle	17.5	25.6 25.6	25.6	33.5 33.5	33.5	98.20 99.10	98.65	6.64 6.70	6.67		2.5 2.6	2.6		1.4 1.2	1.3		30.3 29.5	29.9		215.5 206.2	210.9	
				Bottom	34.1	25.6 25.6	25.6	33.6 33.6	33.6	96.20 96.30	96.25	6.51 6.51	6.51	6.51	2.5 2.5	2.5		0.8 1.3	1.1		31.0 30.3	30.6		209.7 210.5	210.1	

Remark: * DA: Depth-Averaged

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

Water Quality Monitoring Results at C1 - Mid-Flood Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (^{o}C)		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen (mg/L)			Turbidity(NTU)			Suspended Solids (mg/L)			Current Velocity (cm/s)			Direction		
						Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
27-May-17	Fine	Rough	7:05	Surface	1	25.6 25.6	25.6	33.3 33.3	33.3	100.00 99.90	99.95	6.77 6.77	6.77	6.73	1.3 1.4	1.4	1.4	5.3 6.9	6.1	7.6	15.4 14.2	14.8	13.3	79.2 81.9	80.6	74.2
				Middle	17.5	25.5 25.5	25.5	33.3 33.3	33.3	98.60 98.80	98.70	6.69 6.70	6.70		1.4 1.3	1.4		7.8 7.1	7.5		13.2 14.7	13.9		83.3 82.1	82.7	
				Bottom	34.1	25.5 25.5	25.5	33.3 33.3	33.3	98.90 98.90	98.90	6.71 6.71	6.71		1.3 1.4	1.4		8.6 10.1	9.4		10.5 11.8	11.2		57.6 60.8	59.2	
30-May-17	Sunny	Moderate	9:52	Surface	1	26.0 26.0	26.0	32.9 32.9	32.9	98.20 98.30	98.25	6.62 6.62	6.62	6.64	1.9 2.0	2.0	1.8	0.8 1.0	0.9	0.7	21.7 19.5	20.6	18.3	39.9 41.6	40.7	61.0
				Middle	17.3	26.0 26.0	26.0	33.1 33.1	33.1	99.10 98.80	98.95	6.67 6.65	6.66		1.8 1.7	1.8		0.7 <0.5	0.6		16.6 15.5	16.1		67.2 70.9	69.0	
				Bottom	33.7	26.0 26.0	26.0	33.1 33.2	33.1	98.50 98.20	98.35	6.63 6.61	6.62	6.62	1.8 1.8	1.8		0.7 <0.5	0.6		18.2 18.4	18.3		70.8 75.6	73.2	
1-Jun-17	Sunny	Moderate	11:54	Surface	1	26.3 26.3	26.3	35.5 35.5	35.5	102.60 103.10	102.85	6.79 6.82	6.81	6.77	1.8 1.8	1.8	1.8	1.9 1.7	1.8	1.8	11.2 12.9	12.1	14.4	159.2 163.3	161.3	186.4
				Middle	17.6	26.2 26.2	26.2	35.5 35.5	35.5	101.30 101.90	101.60	6.70 6.75	6.73		1.8 1.8	1.8		1.6 2.4	4.4		13.3 14.1	13.7		200.0 192.2	196.1	
				Bottom	34.2	26.2 26.1	26.1	35.5 35.7	35.6	101.90 101.20	101.55	6.74 6.70	6.72	6.72	1.8 1.6	1.7		1.7 1.7	1.7		18.7 16.2	17.4		200.4 203.4	201.9	
3-Jun-17	Sunny	Moderate	12:02	Surface	1	27.2 27.0	27.1	33.9 34.1	34.0	112.40 111.80	112.10	7.39 7.36	7.38	7.27	1.4 1.5	1.5	1.5	3.1 3.0	3.1	4.4	19.9 20.7	20.3	18.0	98.3 112.3	105.3	135.3
				Middle	17.4	26.6 26.7	26.7	34.4 34.3	34.3	106.50 110.10	108.30	7.05 7.28	7.17		1.4 1.5	1.5		6.4 4.1	5.3		14.6 16.2	15.4		136.5 148.6	142.5	
				Bottom	33.9	26.5 26.6	26.5	34.7 34.5	34.6	104.60 109.30	106.95	6.92 7.23	7.08	7.08	1.5 1.5	1.5		4.7 5.3	5.0		17.9 18.8	18.3		154.5 161.6	158.0	

Remark: * DA: Depth-Averaged

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

APPENDIX C
LABORATORY RESULTS

CERTIFICATE OF ANALYSIS

Client	:	**AECOM ASIA COMPANY LIMITED**	*Laboratory*	:	**ALS Technichem (HK) Pty Ltd**	*Page*	: **1 of 10**
Contact	:	**MR Y W FUNG**	*Contact*	:	**Fung Lim Chee, Richard**	*Work Order*	: **HK1718422**
Address	:	**1501-10, 15/F, TOWER 1, GRAND CENTRAL PLAZA, 138 SHATIN RURAL COMMITTEE ROAD, SHATIN NEW TERRITORIES, HONG KONG**	*Address*	:	**11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong**		
E-mail	:	**yw.fung@aecom.com**	*E-mail*	:	**Richard.Fung@alsglobal.com**		
Telephone	:	**+852 3105 8544**	*Telephone*	:	**+852 2610 1044**		
Facsimile	:	**----**	*Facsimile*	:	**+852 2610 2021**		
Project	:	**WATER QUALITY MONITORING FOR ASIA-AFRICA-EUROPE-1 CABLE SYSTEM (AAE-1) AT CAPE D AGUILAR HONG KONG**	*Quote number*	:	**----**	*Date received*	: **09-MAY-2017**
Order number	:	**----**				*Date of issue*	: **18-MAY-2017**
C-O-C number	:	**----**				*No. of samples*	- *Received* : **180**
Site	:	**----**					- *Analysed* : **180**

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	**General Manager**	**Inorganics**

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK1718422 supersedes any previous reports with this reference. Testing period is from 09-MAY-2017 to 18-MAY-2017. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for process purposes. Abbreviations: CAS number = Chemical Abstract Services number. LOR = Limit of reporting.

Specific Comments for Work Order HK1718422 :

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.
Sample(s) were picked up from client by ALS Technichem (HK) staff in chilled condition.
Water sample(s) analysed and reported on an as received basis.

Analytical Results

Sub-Matrix: **WATER**

Client sample ID	Client sampling date / time	Laboratory sample ID	Compound	EA025: Suspended Solids (SS)				
			LOR Unit	0.5 mg/L				
				EA/ED: Physical and Aggregate Properties				
L1/ME/S/ REPLICATE 1	[09-MAY-2017]	HK1718422-001		**3.6**				
L1/ME/S/ REPLICATE 2	[09-MAY-2017]	HK1718422-002		**3.8**				
L1/ME/M/ REPLICATE 1	[09-MAY-2017]	HK1718422-003		**2.7**				
L1/ME/M/ REPLICATE 2	[09-MAY-2017]	HK1718422-004		**4.0**				
L1/ME/B/ REPLICATE 1	[09-MAY-2017]	HK1718422-005		**4.4**				
L1/ME/B/ REPLICATE 2	[09-MAY-2017]	HK1718422-006		**4.1**				
B1/ME/S/ REPLICATE 1	[09-MAY-2017]	HK1718422-007		**3.1**				
B1/ME/S/ REPLICATE 2	[09-MAY-2017]	HK1718422-008		**3.6**				
B1/ME/M/ REPLICATE 1	[09-MAY-2017]	HK1718422-009		**3.6**				
B1/ME/M/ REPLICATE 2	[09-MAY-2017]	HK1718422-010		**3.1**				
B1/ME/B/ REPLICATE 1	[09-MAY-2017]	HK1718422-011		**3.0**				
B1/ME/B/ REPLICATE 2	[09-MAY-2017]	HK1718422-012		**2.4**				
G3/ME/S/ REPLICATE 1	[09-MAY-2017]	HK1718422-013		**1.6**				
G3/ME/S/ REPLICATE 2	[09-MAY-2017]	HK1718422-014		**1.9**				
G3/ME/M/ REPLICATE 1	[09-MAY-2017]	HK1718422-015		**1.5**				
G3/ME/M/ REPLICATE 2	[09-MAY-2017]	HK1718422-016		**1.1**				
G3/ME/B/ REPLICATE 1	[09-MAY-2017]	HK1718422-017		**4.2**				
G3/ME/B/ REPLICATE 2	[09-MAY-2017]	HK1718422-018		**4.1**				
E1/ME/S/ REPLICATE 1	[09-MAY-2017]	HK1718422-019		**4.2**				
E1/ME/S/ REPLICATE 2	[09-MAY-2017]	HK1718422-020		**4.3**				
E1/ME/M/ REPLICATE 1	[09-MAY-2017]	HK1718422-021		**3.8**				
E1/ME/M/ REPLICATE 2	[09-MAY-2017]	HK1718422-022		**4.1**				
E1/ME/B/ REPLICATE 1	[09-MAY-2017]	HK1718422-023		**3.2**				
E1/ME/B/ REPLICATE 2	[09-MAY-2017]	HK1718422-024		**4.2**				
E2/ME/S/ REPLICATE 1	[09-MAY-2017]	HK1718422-025		**2.7**				
E2/ME/S/ REPLICATE 2	[09-MAY-2017]	HK1718422-026		**4.3**				
E2/ME/M/ REPLICATE 1	[09-MAY-2017]	HK1718422-027		**4.3**				
E2/ME/M/ REPLICATE 2	[09-MAY-2017]	HK1718422-028		**4.5**				
E2/ME/B/ REPLICATE 1	[09-MAY-2017]	HK1718422-029		**5.2**				
E2/ME/B/ REPLICATE 2	[09-MAY-2017]	HK1718422-030		**6.1**				
E3/ME/S/ REPLICATE 1	[09-MAY-2017]	HK1718422-031		**4.9**				
E3/ME/S/ REPLICATE 2	[09-MAY-2017]	HK1718422-032		**5.0**				
E3/ME/M/ REPLICATE 1	[09-MAY-2017]	HK1718422-033		**4.1**				
E3/ME/M/ REPLICATE 2	[09-MAY-2017]	HK1718422-034		**4.4**				
E3/ME/B/ REPLICATE 1	[09-MAY-2017]	HK1718422-035		**5.5**				

Sub-Matrix: **WATER**

Client sample ID	*Client sampling date / time*	*Laboratory sample ID*	*Compound*	**EA025: Suspended Solids (SS)**				
			LOR Unit	0.5 mg/L				
				EA/ED: Physical and Aggregate Properties				
E3/ME/B/ REPLICATE 2	[09-MAY-2017]	HK1718422-036		**4.3**				
G1/ME/S/ REPLICATE 1	[09-MAY-2017]	HK1718422-037		**1.7**				
G1/ME/S/ REPLICATE 2	[09-MAY-2017]	HK1718422-038		**0.6**				
G1/ME/M/ REPLICATE 1	[09-MAY-2017]	HK1718422-039		**1.3**				
G1/ME/M/ REPLICATE 2	[09-MAY-2017]	HK1718422-040		**1.9**				
G1/ME/B/ REPLICATE 1	[09-MAY-2017]	HK1718422-041		**7.1**				
G1/ME/B/ REPLICATE 2	[09-MAY-2017]	HK1718422-042		**6.3**				
G2/ME/S/ REPLICATE 1	[09-MAY-2017]	HK1718422-043		**3.5**				
G2/ME/S/ REPLICATE 2	[09-MAY-2017]	HK1718422-044		**2.8**				
G2/ME/M/ REPLICATE 1	[09-MAY-2017]	HK1718422-045		**2.0**				
G2/ME/M/ REPLICATE 2	[09-MAY-2017]	HK1718422-046		**3.8**				
G2/ME/B/ REPLICATE 1	[09-MAY-2017]	HK1718422-047		**2.9**				
G2/ME/B/ REPLICATE 2	[09-MAY-2017]	HK1718422-048		**4.3**				
E5/ME/S/ REPLICATE 1	[09-MAY-2017]	HK1718422-049		**4.8**				
E5/ME/S/ REPLICATE 2	[09-MAY-2017]	HK1718422-050		**4.7**				
E5/ME/M/ REPLICATE 1	[09-MAY-2017]	HK1718422-051		**3.4**				
E5/ME/M/ REPLICATE 2	[09-MAY-2017]	HK1718422-052		**3.3**				
E5/ME/B/ REPLICATE 1	[09-MAY-2017]	HK1718422-053		**8.8**				
E5/ME/B/ REPLICATE 2	[09-MAY-2017]	HK1718422-054		**7.4**				
E4/ME/S/ REPLICATE 1	[09-MAY-2017]	HK1718422-055		**2.4**				
E4/ME/S/ REPLICATE 2	[09-MAY-2017]	HK1718422-056		**2.0**				
E4/ME/M/ REPLICATE 1	[09-MAY-2017]	HK1718422-057		**4.9**				
E4/ME/M/ REPLICATE 2	[09-MAY-2017]	HK1718422-058		**3.7**				
E4/ME/B/ REPLICATE 1	[09-MAY-2017]	HK1718422-059		**3.8**				
E4/ME/B/ REPLICATE 2	[09-MAY-2017]	HK1718422-060		**6.1**				
G5/ME/S/ REPLICATE 1	[09-MAY-2017]	HK1718422-061		**3.3**				
G5/ME/S/ REPLICATE 2	[09-MAY-2017]	HK1718422-062		**2.4**				
G5/ME/M/ REPLICATE 1	[09-MAY-2017]	HK1718422-063		**2.1**				
G5/ME/M/ REPLICATE 2	[09-MAY-2017]	HK1718422-064		**3.3**				
G5/ME/B/ REPLICATE 1	[09-MAY-2017]	HK1718422-065		**3.5**				
G5/ME/B/ REPLICATE 2	[09-MAY-2017]	HK1718422-066		**4.7**				
G4/ME/S/ REPLICATE 1	[09-MAY-2017]	HK1718422-067		**5.8**				
G4/ME/S/ REPLICATE 2	[09-MAY-2017]	HK1718422-068		**4.3**				
G4/ME/M/ REPLICATE 1	[09-MAY-2017]	HK1718422-069		**4.0**				
G4/ME/M/ REPLICATE 2	[09-MAY-2017]	HK1718422-070		**3.8**				

Sub-Matrix: **WATER**

Client sample ID	Client sampling date / time	Laboratory sample ID	Compound	EA025: Suspended Solids (SS)				
			LOR Unit	0.5 mg/L				
				EA/ED: Physical and Aggregate Properties				
G4/ME/B/ REPLICATE 1	[09-MAY-2017]	HK1718422-071		**4.4**				
G4/ME/B/ REPLICATE 2	[09-MAY-2017]	HK1718422-072		**4.0**				
E7/ME/S/ REPLICATE 1	[09-MAY-2017]	HK1718422-073		**3.0**				
E7/ME/S/ REPLICATE 2	[09-MAY-2017]	HK1718422-074		**4.5**				
E7/ME/M/ REPLICATE 1	[09-MAY-2017]	HK1718422-075		**3.8**				
E7/ME/M/ REPLICATE 2	[09-MAY-2017]	HK1718422-076		**4.1**				
E7/ME/B/ REPLICATE 1	[09-MAY-2017]	HK1718422-077		**5.6**				
E7/ME/B/ REPLICATE 2	[09-MAY-2017]	HK1718422-078		**4.3**				
E6/ME/S/ REPLICATE 1	[09-MAY-2017]	HK1718422-079		**3.8**				
E6/ME/S/ REPLICATE 2	[09-MAY-2017]	HK1718422-080		**5.6**				
E6/ME/M/ REPLICATE 1	[09-MAY-2017]	HK1718422-081		**7.6**				
E6/ME/M/ REPLICATE 2	[09-MAY-2017]	HK1718422-082		**10.4**				
E6/ME/B/ REPLICATE 1	[09-MAY-2017]	HK1718422-083		**10.1**				
E6/ME/B/ REPLICATE 2	[09-MAY-2017]	HK1718422-084		**8.4**				
C1/ME/S/ REPLICATE 1	[09-MAY-2017]	HK1718422-085		**5.0**				
C1/ME/S/ REPLICATE 2	[09-MAY-2017]	HK1718422-086		**5.4**				
C1/ME/M/ REPLICATE 1	[09-MAY-2017]	HK1718422-087		**4.0**				
C1/ME/M/ REPLICATE 2	[09-MAY-2017]	HK1718422-088		**5.4**				
C1/ME/B/ REPLICATE 1	[09-MAY-2017]	HK1718422-089		**7.3**				
C1/ME/B/ REPLICATE 2	[09-MAY-2017]	HK1718422-090		**5.3**				
L1/MF/S/ REPLICATE 1	[09-MAY-2017]	HK1718422-091		**3.6**				
L1/MF/S/ REPLICATE 2	[09-MAY-2017]	HK1718422-092		**3.7**				
L1/MF/M/ REPLICATE 1	[09-MAY-2017]	HK1718422-093		**3.6**				
L1/MF/M/ REPLICATE 2	[09-MAY-2017]	HK1718422-094		**3.3**				
L1/MF/B/ REPLICATE 1	[09-MAY-2017]	HK1718422-095		**3.2**				
L1/MF/B/ REPLICATE 2	[09-MAY-2017]	HK1718422-096		**3.2**				
B1/MF/S/ REPLICATE 1	[09-MAY-2017]	HK1718422-097		**3.6**				
B1/MF/S/ REPLICATE 2	[09-MAY-2017]	HK1718422-098		**3.6**				
B1/MF/M/ REPLICATE 1	[09-MAY-2017]	HK1718422-099		**3.8**				
B1/MF/M/ REPLICATE 2	[09-MAY-2017]	HK1718422-100		**4.5**				
B1/MF/B/ REPLICATE 1	[09-MAY-2017]	HK1718422-101		**3.8**				
B1/MF/B/ REPLICATE 2	[09-MAY-2017]	HK1718422-102		**3.2**				
G3/MF/S/ REPLICATE 1	[09-MAY-2017]	HK1718422-103		**3.8**				
G3/MF/S/ REPLICATE 2	[09-MAY-2017]	HK1718422-104		**2.3**				
G3/MF/M/ REPLICATE 1	[09-MAY-2017]	HK1718422-105		**5.2**				

Sub-Matrix: **WATER**

Client sample ID	*Client sampling date / time*	*Laboratory sample ID*	*Compound*	**EA025: Suspended Solids (SS)**				
			LOR Unit	0.5 mg/L				
				EA/ED: Physical and Aggregate Properties				
G3/MF/M/ REPLICATE 2	[09-MAY-2017]	HK1718422-106		**3.9**				
G3/MF/B/ REPLICATE 1	[09-MAY-2017]	HK1718422-107		**6.6**				
G3/MF/B/ REPLICATE 2	[09-MAY-2017]	HK1718422-108		**8.3**				
E1/MF/S/ REPLICATE 1	[09-MAY-2017]	HK1718422-109		**4.3**				
E1/MF/S/ REPLICATE 2	[09-MAY-2017]	HK1718422-110		**4.7**				
E1/MF/M/ REPLICATE 1	[09-MAY-2017]	HK1718422-111		**4.7**				
E1/MF/M/ REPLICATE 2	[09-MAY-2017]	HK1718422-112		**6.3**				
E1/MF/B/ REPLICATE 1	[09-MAY-2017]	HK1718422-113		**7.4**				
E1/MF/B/ REPLICATE 2	[09-MAY-2017]	HK1718422-114		**4.8**				
E2/MF/S/ REPLICATE 1	[09-MAY-2017]	HK1718422-115		**4.8**				
E2/MF/S/ REPLICATE 2	[09-MAY-2017]	HK1718422-116		**5.8**				
E2/MF/M/ REPLICATE 1	[09-MAY-2017]	HK1718422-117		**4.1**				
E2/MF/M/ REPLICATE 2	[09-MAY-2017]	HK1718422-118		**5.8**				
E2/MF/B/ REPLICATE 1	[09-MAY-2017]	HK1718422-119		**4.6**				
E2/MF/B/ REPLICATE 2	[09-MAY-2017]	HK1718422-120		**4.5**				
E3/MF/S/ REPLICATE 1	[09-MAY-2017]	HK1718422-121		**3.4**				
E3/MF/S/ REPLICATE 2	[09-MAY-2017]	HK1718422-122		**2.6**				
E3/MF/M/ REPLICATE 1	[09-MAY-2017]	HK1718422-123		**4.6**				
E3/MF/M/ REPLICATE 2	[09-MAY-2017]	HK1718422-124		**7.2**				
E3/MF/B/ REPLICATE 1	[09-MAY-2017]	HK1718422-125		**6.8**				
E3/MF/B/ REPLICATE 2	[09-MAY-2017]	HK1718422-126		**5.1**				
G1/MF/S/ REPLICATE 1	[09-MAY-2017]	HK1718422-127		**7.0**				
G1/MF/S/ REPLICATE 2	[09-MAY-2017]	HK1718422-128		**5.6**				
G1/MF/M/ REPLICATE 1	[09-MAY-2017]	HK1718422-129		**5.2**				
G1/MF/M/ REPLICATE 2	[09-MAY-2017]	HK1718422-130		**5.0**				
G1/MF/B/ REPLICATE 1	[09-MAY-2017]	HK1718422-131		**5.4**				
G1/MF/B/ REPLICATE 2	[09-MAY-2017]	HK1718422-132		**5.0**				
G2/MF/S/ REPLICATE 1	[09-MAY-2017]	HK1718422-133		**3.1**				
G2/MF/S/ REPLICATE 2	[09-MAY-2017]	HK1718422-134		**5.4**				
G2/MF/M/ REPLICATE 1	[09-MAY-2017]	HK1718422-135		**4.0**				
G2/MF/M/ REPLICATE 2	[09-MAY-2017]	HK1718422-136		**3.3**				
G2/MF/B/ REPLICATE 1	[09-MAY-2017]	HK1718422-137		**5.4**				
G2/MF/B/ REPLICATE 2	[09-MAY-2017]	HK1718422-138		**5.3**				
E5/MF/S/ REPLICATE 1	[09-MAY-2017]	HK1718422-139		**5.5**				
E5/MF/S/ REPLICATE 2	[09-MAY-2017]	HK1718422-140		**6.5**				

Sub-Matrix: **WATER**

Client sample ID	*Client sampling date / time*	*Laboratory sample ID*	*Compound*	**EA025: Suspended Solids (SS)**				
			LOR Unit	0.5 mg/L				
				EA/ED: Physical and Aggregate Properties				
E5/MF/M/ REPLICATE 1	[09-MAY-2017]	HK1718422-141		**7.2**				
E5/MF/M/ REPLICATE 2	[09-MAY-2017]	HK1718422-142		**4.7**				
E5/MF/B/ REPLICATE 1	[09-MAY-2017]	HK1718422-143		**5.4**				
E5/MF/B/ REPLICATE 2	[09-MAY-2017]	HK1718422-144		**6.5**				
E4/MF/S/ REPLICATE 1	[09-MAY-2017]	HK1718422-145		**3.1**				
E4/MF/S/ REPLICATE 2	[09-MAY-2017]	HK1718422-146		**5.3**				
E4/MF/M/ REPLICATE 1	[09-MAY-2017]	HK1718422-147		**3.7**				
E4/MF/M/ REPLICATE 2	[09-MAY-2017]	HK1718422-148		**4.5**				
E4/MF/B/ REPLICATE 1	[09-MAY-2017]	HK1718422-149		**5.7**				
E4/MF/B/ REPLICATE 2	[09-MAY-2017]	HK1718422-150		**6.4**				
G5/MF/S/ REPLICATE 1	[09-MAY-2017]	HK1718422-151		**5.5**				
G5/MF/S/ REPLICATE 2	[09-MAY-2017]	HK1718422-152		**5.7**				
G5/MF/M/ REPLICATE 1	[09-MAY-2017]	HK1718422-153		**5.1**				
G5/MF/M/ REPLICATE 2	[09-MAY-2017]	HK1718422-154		**5.9**				
G5/MF/B/ REPLICATE 1	[09-MAY-2017]	HK1718422-155		**10.4**				
G5/MF/B/ REPLICATE 2	[09-MAY-2017]	HK1718422-156		**8.0**				
G4/MF/S/ REPLICATE 1	[09-MAY-2017]	HK1718422-157		**8.3**				
G4/MF/S/ REPLICATE 2	[09-MAY-2017]	HK1718422-158		**6.3**				
G4/MF/M/ REPLICATE 1	[09-MAY-2017]	HK1718422-159		**6.0**				
G4/MF/M/ REPLICATE 2	[09-MAY-2017]	HK1718422-160		**7.9**				
G4/MF/B/ REPLICATE 1	[09-MAY-2017]	HK1718422-161		**9.3**				
G4/MF/B/ REPLICATE 2	[09-MAY-2017]	HK1718422-162		**7.6**				
E7/MF/S/ REPLICATE 1	[09-MAY-2017]	HK1718422-163		**6.1**				
E7/MF/S/ REPLICATE 2	[09-MAY-2017]	HK1718422-164		**6.7**				
E7/MF/M/ REPLICATE 1	[09-MAY-2017]	HK1718422-165		**6.3**				
E7/MF/M/ REPLICATE 2	[09-MAY-2017]	HK1718422-166		**5.3**				
E7/MF/B/ REPLICATE 1	[09-MAY-2017]	HK1718422-167		**6.4**				
E7/MF/B/ REPLICATE 2	[09-MAY-2017]	HK1718422-168		**6.5**				
E6/MF/S/ REPLICATE 1	[09-MAY-2017]	HK1718422-169		**4.2**				
E6/MF/S/ REPLICATE 2	[09-MAY-2017]	HK1718422-170		**5.4**				
E6/MF/M/ REPLICATE 1	[09-MAY-2017]	HK1718422-171		**9.4**				
E6/MF/M/ REPLICATE 2	[09-MAY-2017]	HK1718422-172		**6.9**				
E6/MF/B/ REPLICATE 1	[09-MAY-2017]	HK1718422-173		**9.4**				
E6/MF/B/ REPLICATE 2	[09-MAY-2017]	HK1718422-174		**10.5**				
C1/MF/S/ REPLICATE 1	[09-MAY-2017]	HK1718422-175		**5.4**				

Sub-Matrix: **WATER**

Client sample ID	*Client sampling date / time*	*Laboratory sample ID*	*Compound*	**EA025: Suspended Solids (SS)**				
			LOR Unit	0.5 mg/L				
				EA/ED: Physical and Aggregate Properties				
C1/MF/S/ REPLICATE 2	[09-MAY-2017]	HK1718422-176		**5.4**				
C1/MF/M/ REPLICATE 1	[09-MAY-2017]	HK1718422-177		**4.7**				
C1/MF/M/ REPLICATE 2	[09-MAY-2017]	HK1718422-178		**4.0**				
C1/MF/B/ REPLICATE 1	[09-MAY-2017]	HK1718422-179		**3.7**				
C1/MF/B/ REPLICATE 2	[09-MAY-2017]	HK1718422-180		**5.1**				

Laboratory Duplicate (DUP) Report

Matrix: **WATER**

Laboratory sample ID	Client 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: 4479411)								
HK1718422-001	L1/ME/S/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	3.6	3.3	7.9
HK1718422-011	B1/ME/B/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	3.0	4.2	33.6
EA/ED: Physical and Aggregate Properties (QC Lot: 4479412)								
HK1718422-021	E1/ME/M/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	3.8	3.6	6.7
HK1718422-031	E3/ME/S/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	4.9	4.6	5.2
EA/ED: Physical and Aggregate Properties (QC Lot: 4479413)								
HK1718422-041	G1/ME/B/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	7.1	7.0	1.4
HK1718422-051	E5/ME/M/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	3.4	3.5	0.0
EA/ED: Physical and Aggregate Properties (QC Lot: 4479414)								
HK1718422-061	G5/ME/S/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	3.3	2.8	18.2
HK1718422-071	G4/ME/B/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	4.4	4.2	3.5
EA/ED: Physical and Aggregate Properties (QC Lot: 4479415)								
HK1718422-081	E6/ME/M/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	7.6	8.0	4.2
HK1718422-091	L1/MF/S/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	3.6	4.5	20.3
EA/ED: Physical and Aggregate Properties (QC Lot: 4479416)								
HK1718422-101	B1/MF/B/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	3.8	4.0	5.1
HK1718422-111	E1/MF/M/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	4.7	4.2	9.5
EA/ED: Physical and Aggregate Properties (QC Lot: 4479417)								
HK1718422-121	E3/MF/S/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	3.4	4.4	25.2
HK1718422-131	G1/MF/B/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	5.4	6.5	19.8
EA/ED: Physical and Aggregate Properties (QC Lot: 4479418)								
HK1718422-141	E5/MF/M/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	7.2	4.8	40.2
HK1718422-151	G5/MF/S/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	5.5	6.3	13.2
EA/ED: Physical and Aggregate Properties (QC Lot: 4479419)								
HK1718422-161	G4/MF/B/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	9.3	8.6	8.4
HK1718422-171	E6/MF/M/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	9.4	8.3	12.4

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: 4479411)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20.0 mg/L	93.0	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 4479412)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20.0 mg/L	105	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 4479413)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20.0 mg/L	99.0	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 4479414)											

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: 4479414) - continued											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20.0 mg/L	92.5	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 4479415)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20.0 mg/L	110	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 4479416)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20.0 mg/L	108	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 4479417)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20.0 mg/L	94.5	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 4479418)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20.0 mg/L	110	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 4479419)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20.0 mg/L	95.0	----	85	115	----	----

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	:	**AECOM ASIA COMPANY LIMITED**	*Laboratory*	:	**ALS Technichem (HK) Pty Ltd**	*Page*	: **1 of 10**
Contact	:	**MR Y W FUNG**	*Contact*	:	**Fung Lim Chee, Richard**	*Work Order*	: **HK1718857**
Address	:	**1501-10, 15/F, TOWER 1, GRAND CENTRAL PLAZA, 138 SHATIN RURAL COMMITTEE ROAD, SHATIN NEW TERRITORIES, HONG KONG**	*Address*	:	**11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong**		
E-mail	:	**yw.fung@aecom.com**	*E-mail*	:	**Richard.Fung@alsglobal.com**		
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Project	:	**WATER QUALITY MONITORING FOR ASIA-AFRICA-EUROPE-1 CABLE SYSTEM (AAE-1) AT CAPE D AGUILAR HONG KONG**	*Quote number*	:	**----**	*Date received*	: **11-MAY-2017**
Order number	:	**----**				*Date of issue*	: **24-MAY-2017**
C-O-C number	:	**----**				*No. of samples*	- *Received* : **180**
Site	:	**----**					- *Analysed* : **180**

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	**General Manager**	**Inorganics**

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK1718857 supersedes any previous reports with this reference. Testing period is from 11-MAY-2017 to 23-MAY-2017. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for process purposes. Abbreviations: CAS number = Chemical Abstract Services number. LOR = Limit of reporting.

Specific Comments for Work Order HK1718857 :

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.
Sample(s) were picked up from client by ALS Technichem (HK) staff in chilled condition.
Water sample(s) analysed and reported on an as received basis.

Analytical Results

Sub-Matrix: **WATER**

Client sample ID	Client sampling date / time	Laboratory sample ID	Compound	EA025: Suspended Solids (SS)				
			LOR Unit	0.5 mg/L				
				EA/ED: Physical and Aggregate Properties				
L1/ME/S/ REPLICATE 1	[11-MAY-2017]	HK1718857-001		**1.0**				
L1/ME/S/ REPLICATE 2	[11-MAY-2017]	HK1718857-002		**1.1**				
L1/ME/M/ REPLICATE 1	[11-MAY-2017]	HK1718857-003		**2.1**				
L1/ME/M/ REPLICATE 2	[11-MAY-2017]	HK1718857-004		**1.2**				
L1/ME/B/ REPLICATE 1	[11-MAY-2017]	HK1718857-005		**1.5**				
L1/ME/B/ REPLICATE 2	[11-MAY-2017]	HK1718857-006		**0.7**				
B1/ME/S/ REPLICATE 1	[11-MAY-2017]	HK1718857-007		**0.7**				
B1/ME/S/ REPLICATE 2	[11-MAY-2017]	HK1718857-008		**1.2**				
B1/ME/M/ REPLICATE 1	[11-MAY-2017]	HK1718857-009		**0.9**				
B1/ME/M/ REPLICATE 2	[11-MAY-2017]	HK1718857-010		<0.5				
B1/ME/B/ REPLICATE 1	[11-MAY-2017]	HK1718857-011		**2.1**				
B1/ME/B/ REPLICATE 2	[11-MAY-2017]	HK1718857-012		**2.5**				
G3/ME/S/ REPLICATE 1	[11-MAY-2017]	HK1718857-013		**0.9**				
G3/ME/S/ REPLICATE 2	[11-MAY-2017]	HK1718857-014		**0.9**				
G3/ME/M/ REPLICATE 1	[11-MAY-2017]	HK1718857-015		**2.4**				
G3/ME/M/ REPLICATE 2	[11-MAY-2017]	HK1718857-016		**3.6**				
G3/ME/B/ REPLICATE 1	[11-MAY-2017]	HK1718857-017		**0.9**				
G3/ME/B/ REPLICATE 2	[11-MAY-2017]	HK1718857-018		**1.6**				
E1/ME/S/ REPLICATE 1	[11-MAY-2017]	HK1718857-019		**0.6**				
E1/ME/S/ REPLICATE 2	[11-MAY-2017]	HK1718857-020		**1.3**				
E1/ME/M/ REPLICATE 1	[11-MAY-2017]	HK1718857-021		**0.8**				
E1/ME/M/ REPLICATE 2	[11-MAY-2017]	HK1718857-022		**1.4**				
E1/ME/B/ REPLICATE 1	[11-MAY-2017]	HK1718857-023		**1.9**				
E1/ME/B/ REPLICATE 2	[11-MAY-2017]	HK1718857-024		**1.6**				
E2/ME/S/ REPLICATE 1	[11-MAY-2017]	HK1718857-025		**3.1**				
E2/ME/S/ REPLICATE 2	[11-MAY-2017]	HK1718857-026		**2.0**				
E2/ME/M/ REPLICATE 1	[11-MAY-2017]	HK1718857-027		**1.4**				
E2/ME/M/ REPLICATE 2	[11-MAY-2017]	HK1718857-028		**1.5**				
E2/ME/B/ REPLICATE 1	[11-MAY-2017]	HK1718857-029		**2.2**				
E2/ME/B/ REPLICATE 2	[11-MAY-2017]	HK1718857-030		**1.0**				
E3/ME/S/ REPLICATE 1	[11-MAY-2017]	HK1718857-031		**4.2**				
E3/ME/S/ REPLICATE 2	[11-MAY-2017]	HK1718857-032		**2.6**				
E3/ME/M/ REPLICATE 1	[11-MAY-2017]	HK1718857-033		**1.6**				
E3/ME/M/ REPLICATE 2	[11-MAY-2017]	HK1718857-034		**0.8**				
E3/ME/B/ REPLICATE 1	[11-MAY-2017]	HK1718857-035		**1.1**				

Sub-Matrix: **WATER**

Client sample ID	*Client sampling date / time*	*Laboratory sample ID*	*Compound*	**EA025: Suspended Solids (SS)**				
			LOR Unit	0.5 mg/L				
				EA/ED: Physical and Aggregate Properties				
E3/ME/B/ REPLICATE 2	[11-MAY-2017]	HK1718857-036		**1.1**				
G1/ME/S/ REPLICATE 1	[11-MAY-2017]	HK1718857-037		**1.0**				
G1/ME/S/ REPLICATE 2	[11-MAY-2017]	HK1718857-038		**2.0**				
G1/ME/M/ REPLICATE 1	[11-MAY-2017]	HK1718857-039		**1.0**				
G1/ME/M/ REPLICATE 2	[11-MAY-2017]	HK1718857-040		**1.7**				
G1/ME/B/ REPLICATE 1	[11-MAY-2017]	HK1718857-041		**0.8**				
G1/ME/B/ REPLICATE 2	[11-MAY-2017]	HK1718857-042		**0.9**				
G2/ME/S/ REPLICATE 1	[11-MAY-2017]	HK1718857-043		**0.5**				
G2/ME/S/ REPLICATE 2	[11-MAY-2017]	HK1718857-044		**1.3**				
G2/ME/M/ REPLICATE 1	[11-MAY-2017]	HK1718857-045		**1.4**				
G2/ME/M/ REPLICATE 2	[11-MAY-2017]	HK1718857-046		**0.8**				
G2/ME/B/ REPLICATE 1	[11-MAY-2017]	HK1718857-047		**2.6**				
G2/ME/B/ REPLICATE 2	[11-MAY-2017]	HK1718857-048		**1.5**				
E5/ME/S/ REPLICATE 1	[11-MAY-2017]	HK1718857-049		**0.7**				
E5/ME/S/ REPLICATE 2	[11-MAY-2017]	HK1718857-050		**0.8**				
E5/ME/M/ REPLICATE 1	[11-MAY-2017]	HK1718857-051		**1.2**				
E5/ME/M/ REPLICATE 2	[11-MAY-2017]	HK1718857-052		**0.8**				
E5/ME/B/ REPLICATE 1	[11-MAY-2017]	HK1718857-053		**0.7**				
E5/ME/B/ REPLICATE 2	[11-MAY-2017]	HK1718857-054		**0.7**				
E4/ME/S/ REPLICATE 1	[11-MAY-2017]	HK1718857-055		**0.7**				
E4/ME/S/ REPLICATE 2	[11-MAY-2017]	HK1718857-056		<0.5				
E4/ME/M/ REPLICATE 1	[11-MAY-2017]	HK1718857-057		<0.5				
E4/ME/M/ REPLICATE 2	[11-MAY-2017]	HK1718857-058		<0.5				
E4/ME/B/ REPLICATE 1	[11-MAY-2017]	HK1718857-059		**1.8**				
E4/ME/B/ REPLICATE 2	[11-MAY-2017]	HK1718857-060		**1.9**				
G5/ME/S/ REPLICATE 1	[11-MAY-2017]	HK1718857-061		**1.1**				
G5/ME/S/ REPLICATE 2	[11-MAY-2017]	HK1718857-062		**0.9**				
G5/ME/M/ REPLICATE 1	[11-MAY-2017]	HK1718857-063		**1.2**				
G5/ME/M/ REPLICATE 2	[11-MAY-2017]	HK1718857-064		**0.6**				
G5/ME/B/ REPLICATE 1	[11-MAY-2017]	HK1718857-065		**1.4**				
G5/ME/B/ REPLICATE 2	[11-MAY-2017]	HK1718857-066		**1.0**				
G4/ME/S/ REPLICATE 1	[11-MAY-2017]	HK1718857-067		**1.1**				
G4/ME/S/ REPLICATE 2	[11-MAY-2017]	HK1718857-068		**0.7**				
G4/ME/M/ REPLICATE 1	[11-MAY-2017]	HK1718857-069		**1.1**				
G4/ME/M/ REPLICATE 2	[11-MAY-2017]	HK1718857-070		**0.8**				

Sub-Matrix: **WATER**

Client sample ID	*Client sampling date / time*	*Laboratory sample ID*	*Compound*	**EA025: Suspended Solids (SS)**				
			LOR Unit	0.5 mg/L				
				EA/ED: Physical and Aggregate Properties				
G4/ME/B/ REPLICATE 1	[11-MAY-2017]	HK1718857-071		**4.6**				
G4/ME/B/ REPLICATE 2	[11-MAY-2017]	HK1718857-072		**3.1**				
E7/ME/S/ REPLICATE 1	[11-MAY-2017]	HK1718857-073		**1.0**				
E7/ME/S/ REPLICATE 2	[11-MAY-2017]	HK1718857-074		**1.2**				
E7/ME/M/ REPLICATE 1	[11-MAY-2017]	HK1718857-075		**1.0**				
E7/ME/M/ REPLICATE 2	[11-MAY-2017]	HK1718857-076		**1.1**				
E7/ME/B/ REPLICATE 1	[11-MAY-2017]	HK1718857-077		**3.0**				
E7/ME/B/ REPLICATE 2	[11-MAY-2017]	HK1718857-078		**4.1**				
E6/ME/S/ REPLICATE 1	[11-MAY-2017]	HK1718857-079		**0.8**				
E6/ME/S/ REPLICATE 2	[11-MAY-2017]	HK1718857-080		<0.5				
E6/ME/M/ REPLICATE 1	[11-MAY-2017]	HK1718857-081		**4.3**				
E6/ME/M/ REPLICATE 2	[11-MAY-2017]	HK1718857-082		**2.5**				
E6/ME/B/ REPLICATE 1	[11-MAY-2017]	HK1718857-083		**1.3**				
E6/ME/B/ REPLICATE 2	[11-MAY-2017]	HK1718857-084		<0.5				
C1/ME/S/ REPLICATE 1	[11-MAY-2017]	HK1718857-085		**0.8**				
C1/ME/S/ REPLICATE 2	[11-MAY-2017]	HK1718857-086		<0.5				
C1/ME/M/ REPLICATE 1	[11-MAY-2017]	HK1718857-087		<0.5				
C1/ME/M/ REPLICATE 2	[11-MAY-2017]	HK1718857-088		<0.5				
C1/ME/B/ REPLICATE 1	[11-MAY-2017]	HK1718857-089		**1.5**				
C1/ME/B/ REPLICATE 2	[11-MAY-2017]	HK1718857-090		**0.7**				
L1/MF/S/ REPLICATE 1	[11-MAY-2017]	HK1718857-091		**2.9**				
L1/MF/S/ REPLICATE 2	[11-MAY-2017]	HK1718857-092		**2.1**				
L1/MF/M/ REPLICATE 1	[11-MAY-2017]	HK1718857-093		**0.7**				
L1/MF/M/ REPLICATE 2	[11-MAY-2017]	HK1718857-094		**0.7**				
L1/MF/B/ REPLICATE 1	[11-MAY-2017]	HK1718857-095		**1.2**				
L1/MF/B/ REPLICATE 2	[11-MAY-2017]	HK1718857-096		**0.8**				
B1/MF/S/ REPLICATE 1	[11-MAY-2017]	HK1718857-097		<0.5				
B1/MF/S/ REPLICATE 2	[11-MAY-2017]	HK1718857-098		**0.8**				
B1/MF/M/ REPLICATE 1	[11-MAY-2017]	HK1718857-099		**0.7**				
B1/MF/M/ REPLICATE 2	[11-MAY-2017]	HK1718857-100		**1.6**				
B1/MF/B/ REPLICATE 1	[11-MAY-2017]	HK1718857-101		**0.7**				
B1/MF/B/ REPLICATE 2	[11-MAY-2017]	HK1718857-102		**1.1**				
G3/MF/S/ REPLICATE 1	[11-MAY-2017]	HK1718857-103		**0.6**				
G3/MF/S/ REPLICATE 2	[11-MAY-2017]	HK1718857-104		**1.4**				
G3/MF/M/ REPLICATE 1	[11-MAY-2017]	HK1718857-105		**0.9**				

Sub-Matrix: **WATER**

Client sample ID	*Client sampling date / time*	*Laboratory sample ID*	*Compound*	**EA025: Suspended Solids (SS)**				
			LOR Unit	0.5 mg/L				
				EA/ED: Physical and Aggregate Properties				
G3/MF/M/ REPLICATE 2	[11-MAY-2017]	HK1718857-106		**0.6**				
G3/MF/B/ REPLICATE 1	[11-MAY-2017]	HK1718857-107		**0.9**				
G3/MF/B/ REPLICATE 2	[11-MAY-2017]	HK1718857-108		<0.5				
E1/MF/S/ REPLICATE 1	[11-MAY-2017]	HK1718857-109		**0.5**				
E1/MF/S/ REPLICATE 2	[11-MAY-2017]	HK1718857-110		<0.5				
E1/MF/M/ REPLICATE 1	[11-MAY-2017]	HK1718857-111		**1.6**				
E1/MF/M/ REPLICATE 2	[11-MAY-2017]	HK1718857-112		**2.2**				
E1/MF/B/ REPLICATE 1	[11-MAY-2017]	HK1718857-113		**1.1**				
E1/MF/B/ REPLICATE 2	[11-MAY-2017]	HK1718857-114		**1.2**				
E2/MF/S/ REPLICATE 1	[11-MAY-2017]	HK1718857-115		**5.4**				
E2/MF/S/ REPLICATE 2	[11-MAY-2017]	HK1718857-116		**3.0**				
E2/MF/M/ REPLICATE 1	[11-MAY-2017]	HK1718857-117		**2.6**				
E2/MF/M/ REPLICATE 2	[11-MAY-2017]	HK1718857-118		**4.2**				
E2/MF/B/ REPLICATE 1	[11-MAY-2017]	HK1718857-119		**2.3**				
E2/MF/B/ REPLICATE 2	[11-MAY-2017]	HK1718857-120		**1.0**				
E3/MF/S/ REPLICATE 1	[11-MAY-2017]	HK1718857-121		<0.5				
E3/MF/S/ REPLICATE 2	[11-MAY-2017]	HK1718857-122		<0.5				
E3/MF/M/ REPLICATE 1	[11-MAY-2017]	HK1718857-123		<0.5				
E3/MF/M/ REPLICATE 2	[11-MAY-2017]	HK1718857-124		<0.5				
E3/MF/B/ REPLICATE 1	[11-MAY-2017]	HK1718857-125		**0.9**				
E3/MF/B/ REPLICATE 2	[11-MAY-2017]	HK1718857-126		**0.5**				
G1/MF/S/ REPLICATE 1	[11-MAY-2017]	HK1718857-127		<0.5				
G1/MF/S/ REPLICATE 2	[11-MAY-2017]	HK1718857-128		<0.5				
G1/MF/M/ REPLICATE 1	[11-MAY-2017]	HK1718857-129		**1.9**				
G1/MF/M/ REPLICATE 2	[11-MAY-2017]	HK1718857-130		**2.7**				
G1/MF/B/ REPLICATE 1	[11-MAY-2017]	HK1718857-131		**0.7**				
G1/MF/B/ REPLICATE 2	[11-MAY-2017]	HK1718857-132		<0.5				
G2/MF/S/ REPLICATE 1	[11-MAY-2017]	HK1718857-133		<0.5				
G2/MF/S/ REPLICATE 2	[11-MAY-2017]	HK1718857-134		<0.5				
G2/MF/M/ REPLICATE 1	[11-MAY-2017]	HK1718857-135		<0.5				
G2/MF/M/ REPLICATE 2	[11-MAY-2017]	HK1718857-136		<0.5				
G2/MF/B/ REPLICATE 1	[11-MAY-2017]	HK1718857-137		**1.0**				
G2/MF/B/ REPLICATE 2	[11-MAY-2017]	HK1718857-138		**1.5**				
E5/MF/S/ REPLICATE 1	[11-MAY-2017]	HK1718857-139		<0.5				
E5/MF/S/ REPLICATE 2	[11-MAY-2017]	HK1718857-140		**0.5**				

Sub-Matrix: **WATER**

Client sample ID	*Client sampling date / time*	*Laboratory sample ID*	*Compound*	**EA025: Suspended Solids (SS)**				
			LOR Unit	0.5 mg/L				
				EA/ED: Physical and Aggregate Properties				
E5/MF/M/ REPLICATE 1	[11-MAY-2017]	HK1718857-141		**1.1**				
E5/MF/M/ REPLICATE 2	[11-MAY-2017]	HK1718857-142		**1.1**				
E5/MF/B/ REPLICATE 1	[11-MAY-2017]	HK1718857-143		<0.5				
E5/MF/B/ REPLICATE 2	[11-MAY-2017]	HK1718857-144		<0.5				
E4/MF/S/ REPLICATE 1	[11-MAY-2017]	HK1718857-145		<0.5				
E4/MF/S/ REPLICATE 2	[11-MAY-2017]	HK1718857-146		<0.5				
E4/MF/M/ REPLICATE 1	[11-MAY-2017]	HK1718857-147		**3.0**				
E4/MF/M/ REPLICATE 2	[11-MAY-2017]	HK1718857-148		**2.1**				
E4/MF/B/ REPLICATE 1	[11-MAY-2017]	HK1718857-149		**1.7**				
E4/MF/B/ REPLICATE 2	[11-MAY-2017]	HK1718857-150		**0.7**				
G5/MF/S/ REPLICATE 1	[11-MAY-2017]	HK1718857-151		**1.0**				
G5/MF/S/ REPLICATE 2	[11-MAY-2017]	HK1718857-152		**1.7**				
G5/MF/M/ REPLICATE 1	[11-MAY-2017]	HK1718857-153		**0.8**				
G5/MF/M/ REPLICATE 2	[11-MAY-2017]	HK1718857-154		**1.5**				
G5/MF/B/ REPLICATE 1	[11-MAY-2017]	HK1718857-155		**0.8**				
G5/MF/B/ REPLICATE 2	[11-MAY-2017]	HK1718857-156		**1.0**				
G4/MF/S/ REPLICATE 1	[11-MAY-2017]	HK1718857-157		**1.4**				
G4/MF/S/ REPLICATE 2	[11-MAY-2017]	HK1718857-158		**1.1**				
G4/MF/M/ REPLICATE 1	[11-MAY-2017]	HK1718857-159		**0.8**				
G4/MF/M/ REPLICATE 2	[11-MAY-2017]	HK1718857-160		**0.6**				
G4/MF/B/ REPLICATE 1	[11-MAY-2017]	HK1718857-161		<0.5				
G4/MF/B/ REPLICATE 2	[11-MAY-2017]	HK1718857-162		**1.5**				
E7/MF/S/ REPLICATE 1	[11-MAY-2017]	HK1718857-163		**0.8**				
E7/MF/S/ REPLICATE 2	[11-MAY-2017]	HK1718857-164		<0.5				
E7/MF/M/ REPLICATE 1	[11-MAY-2017]	HK1718857-165		**1.3**				
E7/MF/M/ REPLICATE 2	[11-MAY-2017]	HK1718857-166		**1.8**				
E7/MF/B/ REPLICATE 1	[11-MAY-2017]	HK1718857-167		**4.4**				
E7/MF/B/ REPLICATE 2	[11-MAY-2017]	HK1718857-168		**2.5**				
E6/MF/S/ REPLICATE 1	[11-MAY-2017]	HK1718857-169		**3.4**				
E6/MF/S/ REPLICATE 2	[11-MAY-2017]	HK1718857-170		**2.2**				
E6/MF/M/ REPLICATE 1	[11-MAY-2017]	HK1718857-171		**1.1**				
E6/MF/M/ REPLICATE 2	[11-MAY-2017]	HK1718857-172		**0.9**				
E6/MF/B/ REPLICATE 1	[11-MAY-2017]	HK1718857-173		**1.3**				
E6/MF/B/ REPLICATE 2	[11-MAY-2017]	HK1718857-174		**1.7**				
C1/MF/S/ REPLICATE 1	[11-MAY-2017]	HK1718857-175		**2.1**				

Sub-Matrix: **WATER**

Client sample ID	*Client sampling date / time*	*Laboratory sample ID*	*Compound*	**EA025: Suspended Solids (SS)**				
			LOR Unit	0.5 mg/L				
				EA/ED: Physical and Aggregate Properties				
C1/MF/S/ REPLICATE 2	[11-MAY-2017]	HK1718857-176		**1.1**				
C1/MF/M/ REPLICATE 1	[11-MAY-2017]	HK1718857-177		**1.4**				
C1/MF/M/ REPLICATE 2	[11-MAY-2017]	HK1718857-178		**1.4**				
C1/MF/B/ REPLICATE 1	[11-MAY-2017]	HK1718857-179		**1.1**				
C1/MF/B/ REPLICATE 2	[11-MAY-2017]	HK1718857-180		**1.9**				

Laboratory Duplicate (DUP) Report

Matrix: **WATER**

Laboratory sample ID	Client 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: 4480863)								
HK1718857-001	L1/ME/S/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	1.0	1.2	20.7
HK1718857-012	B1/ME/B/ REPLICATE 2	EA025: Suspended Solids (SS)	----	0.5	mg/L	2.5	2.8	9.5
EA/ED: Physical and Aggregate Properties (QC Lot: 4480864)								
HK1718857-021	E1/ME/M/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	0.8	0.5	35.3
HK1718857-031	E3/ME/S/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	4.2	5.2	23.4
EA/ED: Physical and Aggregate Properties (QC Lot: 4480865)								
HK1718857-041	G1/ME/B/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	0.8	0.7	15.9
HK1718857-051	E5/ME/M/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	1.2	1.3	0.0
EA/ED: Physical and Aggregate Properties (QC Lot: 4480866)								
HK1718857-061	G5/ME/S/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	1.1	1.0	9.8
HK1718857-071	G4/ME/B/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	4.6	3.7	23.4
EA/ED: Physical and Aggregate Properties (QC Lot: 4480867)								
HK1718857-081	E6/ME/M/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	4.3	3.4	22.5
HK1718857-091	L1/MF/S/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	2.9	2.0	35.2
EA/ED: Physical and Aggregate Properties (QC Lot: 4480868)								
HK1718857-101	B1/MF/B/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	0.7	0.6	14.8
HK1718857-111	E1/MF/M/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	1.6	1.0	45.5
EA/ED: Physical and Aggregate Properties (QC Lot: 4480869)								
HK1718857-121	E3/MF/S/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	<0.5	0.0
HK1718857-131	G1/MF/B/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	0.7	0.8	12.9
EA/ED: Physical and Aggregate Properties (QC Lot: 4480870)								
HK1718857-141	E5/MF/M/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	1.1	1.4	29.7
HK1718857-151	G5/MF/S/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	1.0	1.0	0.0
EA/ED: Physical and Aggregate Properties (QC Lot: 4480871)								
HK1718857-161	G4/MF/B/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	<0.5	0.0
HK1718857-171	E6/MF/M/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	1.1	1.5	30.2

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: 4480863)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20.0 mg/L	95.5	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 4480864)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20.0 mg/L	104	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 4480865)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20.0 mg/L	95.0	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 4480866)											

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: 4480866) - continued											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20.0 mg/L	93.5	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 4480867)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20.0 mg/L	88.5	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 4480868)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20.0 mg/L	90.5	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 4480869)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20.0 mg/L	90.0	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 4480870)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20.0 mg/L	92.5	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 4480871)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20.0 mg/L	89.5	----	85	115	----	----

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	:	**AECOM ASIA COMPANY LIMITED**	*Laboratory*	:	**ALS Technichem (HK) Pty Ltd**	*Page*	: **1 of 10**
Contact	:	**MR Y W FUNG**	*Contact*	:	**Fung Lim Chee, Richard**	*Work Order*	: **HK1718859**
Address	:	**1501-10, 15/F, TOWER 1, GRAND CENTRAL PLAZA, 138 SHATIN RURAL COMMITTEE ROAD, SHATIN NEW TERRITORIES, HONG KONG**	*Address*	:	**11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong**		
E-mail	:	**yw.fung@aecom.com**	*E-mail*	:	**Richard.Fung@alsglobal.com**		
Telephone	:	**+852 3105 8544**	*Telephone*	:	**+852 2610 1044**		
Facsimile	:	**----**	*Facsimile*	:	**+852 2610 2021**		
Project	:	**WATER QUALITY MONITORING FOR ASIA-AFRICA-EUROPE-1 CABLE SYSTEM (AAE-1) AT CAPE D AGUILAR HONG KONG**	*Quote number*	:	**----**	*Date received*	: **13-MAY-2017**
Order number	:	**----**				*Date of issue*	: **23-MAY-2017**
C-O-C number	:	**----**				*No. of samples*	- *Received* : **180**
Site	:	**----**					- *Analysed* : **180**

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	**General Manager**	**Inorganics**

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK1718859 supersedes any previous reports with this reference. Testing period is from 13-MAY-2017 to 22-MAY-2017. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for process purposes. Abbreviations: CAS number = Chemical Abstract Services number. LOR = Limit of reporting.

Specific Comments for Work Order HK1718859 :

Sample(s) were picked up from client by ALS Technichem (HK) staff in chilled condition.

Water sample(s) analysed and reported on an as received basis.

Analytical Results

Sub-Matrix: **WATER**

Client sample ID	Client sampling date / time	Laboratory sample ID	Compound	EA025: Suspended Solids (SS)				
			LOR Unit	0.5 mg/L				
				EA/ED: Physical and Aggregate Properties				
L1/ME/S/ REPLICATE 1	[13-MAY-2017]	HK1718859-001		**2.5**				
L1/ME/S/ REPLICATE 2	[13-MAY-2017]	HK1718859-002		**2.9**				
L1/ME/M/ REPLICATE 1	[13-MAY-2017]	HK1718859-003		**3.3**				
L1/ME/M/ REPLICATE 2	[13-MAY-2017]	HK1718859-004		**2.8**				
L1/ME/B/ REPLICATE 1	[13-MAY-2017]	HK1718859-005		**4.0**				
L1/ME/B/ REPLICATE 2	[13-MAY-2017]	HK1718859-006		**2.9**				
B1/ME/S/ REPLICATE 1	[13-MAY-2017]	HK1718859-007		**2.3**				
B1/ME/S/ REPLICATE 2	[13-MAY-2017]	HK1718859-008		**3.7**				
B1/ME/M/ REPLICATE 1	[13-MAY-2017]	HK1718859-009		**6.7**				
B1/ME/M/ REPLICATE 2	[13-MAY-2017]	HK1718859-010		**6.2**				
B1/ME/B/ REPLICATE 1	[13-MAY-2017]	HK1718859-011		**6.1**				
B1/ME/B/ REPLICATE 2	[13-MAY-2017]	HK1718859-012		**6.4**				
G3/ME/S/ REPLICATE 1	[13-MAY-2017]	HK1718859-013		**4.4**				
G3/ME/S/ REPLICATE 2	[13-MAY-2017]	HK1718859-014		**3.0**				
G3/ME/M/ REPLICATE 1	[13-MAY-2017]	HK1718859-015		**3.2**				
G3/ME/M/ REPLICATE 2	[13-MAY-2017]	HK1718859-016		**3.6**				
G3/ME/B/ REPLICATE 1	[13-MAY-2017]	HK1718859-017		**3.4**				
G3/ME/B/ REPLICATE 2	[13-MAY-2017]	HK1718859-018		**3.3**				
E1/ME/S/ REPLICATE 1	[13-MAY-2017]	HK1718859-019		**2.2**				
E1/ME/S/ REPLICATE 2	[13-MAY-2017]	HK1718859-020		**2.9**				
E1/ME/M/ REPLICATE 1	[13-MAY-2017]	HK1718859-021		**2.3**				
E1/ME/M/ REPLICATE 2	[13-MAY-2017]	HK1718859-022		**3.6**				
E1/ME/B/ REPLICATE 1	[13-MAY-2017]	HK1718859-023		**5.2**				
E1/ME/B/ REPLICATE 2	[13-MAY-2017]	HK1718859-024		**6.6**				
E2/ME/S/ REPLICATE 1	[13-MAY-2017]	HK1718859-025		**3.8**				
E2/ME/S/ REPLICATE 2	[13-MAY-2017]	HK1718859-026		**3.6**				
E2/ME/M/ REPLICATE 1	[13-MAY-2017]	HK1718859-027		**3.7**				
E2/ME/M/ REPLICATE 2	[13-MAY-2017]	HK1718859-028		**2.5**				
E2/ME/B/ REPLICATE 1	[13-MAY-2017]	HK1718859-029		**6.8**				
E2/ME/B/ REPLICATE 2	[13-MAY-2017]	HK1718859-030		**5.4**				
E3/ME/S/ REPLICATE 1	[13-MAY-2017]	HK1718859-031		**3.0**				
E3/ME/S/ REPLICATE 2	[13-MAY-2017]	HK1718859-032		**4.4**				
E3/ME/M/ REPLICATE 1	[13-MAY-2017]	HK1718859-033		**3.8**				
E3/ME/M/ REPLICATE 2	[13-MAY-2017]	HK1718859-034		**4.5**				
E3/ME/B/ REPLICATE 1	[13-MAY-2017]	HK1718859-035		**3.1**				

Sub-Matrix: **WATER**

Client sample ID	*Client sampling date / time*	*Laboratory sample ID*	*Compound*	**EA025: Suspended Solids (SS)**				
			LOR Unit	0.5 mg/L				
				EA/ED: Physical and Aggregate Properties				
E3/ME/B/ REPLICATE 2	[13-MAY-2017]	HK1718859-036		**3.9**				
G1/ME/S/ REPLICATE 1	[13-MAY-2017]	HK1718859-037		**3.7**				
G1/ME/S/ REPLICATE 2	[13-MAY-2017]	HK1718859-038		**4.4**				
G1/ME/M/ REPLICATE 1	[13-MAY-2017]	HK1718859-039		**2.9**				
G1/ME/M/ REPLICATE 2	[13-MAY-2017]	HK1718859-040		**3.3**				
G1/ME/B/ REPLICATE 1	[13-MAY-2017]	HK1718859-041		**7.2**				
G1/ME/B/ REPLICATE 2	[13-MAY-2017]	HK1718859-042		**5.9**				
G2/ME/S/ REPLICATE 1	[13-MAY-2017]	HK1718859-043		**4.3**				
G2/ME/S/ REPLICATE 2	[13-MAY-2017]	HK1718859-044		**3.4**				
G2/ME/M/ REPLICATE 1	[13-MAY-2017]	HK1718859-045		**6.3**				
G2/ME/M/ REPLICATE 2	[13-MAY-2017]	HK1718859-046		**6.0**				
G2/ME/B/ REPLICATE 1	[13-MAY-2017]	HK1718859-047		**5.5**				
G2/ME/B/ REPLICATE 2	[13-MAY-2017]	HK1718859-048		**4.9**				
E5/ME/S/ REPLICATE 1	[13-MAY-2017]	HK1718859-049		**3.7**				
E5/ME/S/ REPLICATE 2	[13-MAY-2017]	HK1718859-050		**2.3**				
E5/ME/M/ REPLICATE 1	[13-MAY-2017]	HK1718859-051		**6.0**				
E5/ME/M/ REPLICATE 2	[13-MAY-2017]	HK1718859-052		**5.3**				
E5/ME/B/ REPLICATE 1	[13-MAY-2017]	HK1718859-053		**7.1**				
E5/ME/B/ REPLICATE 2	[13-MAY-2017]	HK1718859-054		**8.0**				
E4/ME/S/ REPLICATE 1	[13-MAY-2017]	HK1718859-055		**6.3**				
E4/ME/S/ REPLICATE 2	[13-MAY-2017]	HK1718859-056		**6.1**				
E4/ME/M/ REPLICATE 1	[13-MAY-2017]	HK1718859-057		**6.5**				
E4/ME/M/ REPLICATE 2	[13-MAY-2017]	HK1718859-058		**6.7**				
E4/ME/B/ REPLICATE 1	[13-MAY-2017]	HK1718859-059		**5.1**				
E4/ME/B/ REPLICATE 2	[13-MAY-2017]	HK1718859-060		**6.9**				
G5/ME/S/ REPLICATE 1	[13-MAY-2017]	HK1718859-061		**4.5**				
G5/ME/S/ REPLICATE 2	[13-MAY-2017]	HK1718859-062		**5.0**				
G5/ME/M/ REPLICATE 1	[13-MAY-2017]	HK1718859-063		**6.2**				
G5/ME/M/ REPLICATE 2	[13-MAY-2017]	HK1718859-064		**5.2**				
G5/ME/B/ REPLICATE 1	[13-MAY-2017]	HK1718859-065		**5.8**				
G5/ME/B/ REPLICATE 2	[13-MAY-2017]	HK1718859-066		**6.4**				
G4/ME/S/ REPLICATE 1	[13-MAY-2017]	HK1718859-067		**3.7**				
G4/ME/S/ REPLICATE 2	[13-MAY-2017]	HK1718859-068		**3.7**				
G4/ME/M/ REPLICATE 1	[13-MAY-2017]	HK1718859-069		**4.3**				
G4/ME/M/ REPLICATE 2	[13-MAY-2017]	HK1718859-070		**3.6**				

Sub-Matrix: **WATER**

Client sample ID	Client sampling date / time	Laboratory sample ID	Compound	EA025: Suspended Solids (SS)				
			LOR Unit	0.5 mg/L				
				EA/ED: Physical and Aggregate Properties				
G4/ME/B/ REPLICATE 1	[13-MAY-2017]	HK1718859-071		**6.0**				
G4/ME/B/ REPLICATE 2	[13-MAY-2017]	HK1718859-072		**6.3**				
E7/ME/S/ REPLICATE 1	[13-MAY-2017]	HK1718859-073		**3.3**				
E7/ME/S/ REPLICATE 2	[13-MAY-2017]	HK1718859-074		**4.3**				
E7/ME/M/ REPLICATE 1	[13-MAY-2017]	HK1718859-075		**4.9**				
E7/ME/M/ REPLICATE 2	[13-MAY-2017]	HK1718859-076		**4.9**				
E7/ME/B/ REPLICATE 1	[13-MAY-2017]	HK1718859-077		**3.9**				
E7/ME/B/ REPLICATE 2	[13-MAY-2017]	HK1718859-078		**5.1**				
E6/ME/S/ REPLICATE 1	[13-MAY-2017]	HK1718859-079		**4.3**				
E6/ME/S/ REPLICATE 2	[13-MAY-2017]	HK1718859-080		**4.1**				
E6/ME/M/ REPLICATE 1	[13-MAY-2017]	HK1718859-081		**4.8**				
E6/ME/M/ REPLICATE 2	[13-MAY-2017]	HK1718859-082		**4.1**				
E6/ME/B/ REPLICATE 1	[13-MAY-2017]	HK1718859-083		**8.8**				
E6/ME/B/ REPLICATE 2	[13-MAY-2017]	HK1718859-084		**7.3**				
C1/ME/S/ REPLICATE 1	[13-MAY-2017]	HK1718859-085		**3.1**				
C1/ME/S/ REPLICATE 2	[13-MAY-2017]	HK1718859-086		**3.8**				
C1/ME/M/ REPLICATE 1	[13-MAY-2017]	HK1718859-087		**3.8**				
C1/ME/M/ REPLICATE 2	[13-MAY-2017]	HK1718859-088		**3.6**				
C1/ME/B/ REPLICATE 1	[13-MAY-2017]	HK1718859-089		**7.3**				
C1/ME/B/ REPLICATE 2	[13-MAY-2017]	HK1718859-090		**8.2**				
L1/MF/S/ REPLICATE 1	[13-MAY-2017]	HK1718859-091		**2.7**				
L1/MF/S/ REPLICATE 2	[13-MAY-2017]	HK1718859-092		**3.6**				
L1/MF/M/ REPLICATE 1	[13-MAY-2017]	HK1718859-093		**2.7**				
L1/MF/M/ REPLICATE 2	[13-MAY-2017]	HK1718859-094		**3.3**				
L1/MF/B/ REPLICATE 1	[13-MAY-2017]	HK1718859-095		**5.4**				
L1/MF/B/ REPLICATE 2	[13-MAY-2017]	HK1718859-096		**4.9**				
B1/MF/S/ REPLICATE 1	[13-MAY-2017]	HK1718859-097		**4.3**				
B1/MF/S/ REPLICATE 2	[13-MAY-2017]	HK1718859-098		**4.5**				
B1/MF/M/ REPLICATE 1	[13-MAY-2017]	HK1718859-099		**3.8**				
B1/MF/M/ REPLICATE 2	[13-MAY-2017]	HK1718859-100		**3.9**				
B1/MF/B/ REPLICATE 1	[13-MAY-2017]	HK1718859-101		**4.0**				
B1/MF/B/ REPLICATE 2	[13-MAY-2017]	HK1718859-102		**5.2**				
G3/MF/S/ REPLICATE 1	[13-MAY-2017]	HK1718859-103		**4.5**				
G3/MF/S/ REPLICATE 2	[13-MAY-2017]	HK1718859-104		**4.8**				
G3/MF/M/ REPLICATE 1	[13-MAY-2017]	HK1718859-105		**3.9**				

Sub-Matrix: **WATER**

Client sample ID	*Client sampling date / time*	*Laboratory sample ID*	*Compound*	**EA025: Suspended Solids (SS)**				
			LOR Unit	0.5 mg/L				
				EA/ED: Physical and Aggregate Properties				
G3/MF/M/ REPLICATE 2	[13-MAY-2017]	HK1718859-106		**3.8**				
G3/MF/B/ REPLICATE 1	[13-MAY-2017]	HK1718859-107		**6.6**				
G3/MF/B/ REPLICATE 2	[13-MAY-2017]	HK1718859-108		**5.3**				
E1/MF/S/ REPLICATE 1	[13-MAY-2017]	HK1718859-109		**3.4**				
E1/MF/S/ REPLICATE 2	[13-MAY-2017]	HK1718859-110		**4.0**				
E1/MF/M/ REPLICATE 1	[13-MAY-2017]	HK1718859-111		**3.7**				
E1/MF/M/ REPLICATE 2	[13-MAY-2017]	HK1718859-112		**3.0**				
E1/MF/B/ REPLICATE 1	[13-MAY-2017]	HK1718859-113		**5.5**				
E1/MF/B/ REPLICATE 2	[13-MAY-2017]	HK1718859-114		**7.3**				
E2/MF/S/ REPLICATE 1	[13-MAY-2017]	HK1718859-115		**6.3**				
E2/MF/S/ REPLICATE 2	[13-MAY-2017]	HK1718859-116		**6.4**				
E2/MF/M/ REPLICATE 1	[13-MAY-2017]	HK1718859-117		**4.5**				
E2/MF/M/ REPLICATE 2	[13-MAY-2017]	HK1718859-118		**5.1**				
E2/MF/B/ REPLICATE 1	[13-MAY-2017]	HK1718859-119		**4.6**				
E2/MF/B/ REPLICATE 2	[13-MAY-2017]	HK1718859-120		**5.8**				
E3/MF/S/ REPLICATE 1	[13-MAY-2017]	HK1718859-121		**4.7**				
E3/MF/S/ REPLICATE 2	[13-MAY-2017]	HK1718859-122		**4.0**				
E3/MF/M/ REPLICATE 1	[13-MAY-2017]	HK1718859-123		**5.6**				
E3/MF/M/ REPLICATE 2	[13-MAY-2017]	HK1718859-124		**5.3**				
E3/MF/B/ REPLICATE 1	[13-MAY-2017]	HK1718859-125		**4.5**				
E3/MF/B/ REPLICATE 2	[13-MAY-2017]	HK1718859-126		**4.2**				
G1/MF/S/ REPLICATE 1	[13-MAY-2017]	HK1718859-127		**4.5**				
G1/MF/S/ REPLICATE 2	[13-MAY-2017]	HK1718859-128		**4.1**				
G1/MF/M/ REPLICATE 1	[13-MAY-2017]	HK1718859-129		**3.1**				
G1/MF/M/ REPLICATE 2	[13-MAY-2017]	HK1718859-130		**3.0**				
G1/MF/B/ REPLICATE 1	[13-MAY-2017]	HK1718859-131		**5.2**				
G1/MF/B/ REPLICATE 2	[13-MAY-2017]	HK1718859-132		**4.4**				
G2/MF/S/ REPLICATE 1	[13-MAY-2017]	HK1718859-133		**6.1**				
G2/MF/S/ REPLICATE 2	[13-MAY-2017]	HK1718859-134		**4.9**				
G2/MF/M/ REPLICATE 1	[13-MAY-2017]	HK1718859-135		**4.6**				
G2/MF/M/ REPLICATE 2	[13-MAY-2017]	HK1718859-136		**4.4**				
G2/MF/B/ REPLICATE 1	[13-MAY-2017]	HK1718859-137		**6.2**				
G2/MF/B/ REPLICATE 2	[13-MAY-2017]	HK1718859-138		**4.9**				
E5/MF/S/ REPLICATE 1	[13-MAY-2017]	HK1718859-139		**6.7**				
E5/MF/S/ REPLICATE 2	[13-MAY-2017]	HK1718859-140		**7.0**				

Sub-Matrix: **WATER**

Client sample ID	*Client sampling date / time*	*Laboratory sample ID*	*Compound*	**EA025: Suspended Solids (SS)**				
			LOR Unit	0.5 mg/L				
				EA/ED: Physical and Aggregate Properties				
E5/MF/M/ REPLICATE 1	[13-MAY-2017]	HK1718859-141		**5.1**				
E5/MF/M/ REPLICATE 2	[13-MAY-2017]	HK1718859-142		**5.9**				
E5/MF/B/ REPLICATE 1	[13-MAY-2017]	HK1718859-143		**5.7**				
E5/MF/B/ REPLICATE 2	[13-MAY-2017]	HK1718859-144		**5.5**				
E4/MF/S/ REPLICATE 1	[13-MAY-2017]	HK1718859-145		**3.7**				
E4/MF/S/ REPLICATE 2	[13-MAY-2017]	HK1718859-146		**3.2**				
E4/MF/M/ REPLICATE 1	[13-MAY-2017]	HK1718859-147		**3.1**				
E4/MF/M/ REPLICATE 2	[13-MAY-2017]	HK1718859-148		**3.9**				
E4/MF/B/ REPLICATE 1	[13-MAY-2017]	HK1718859-149		**3.9**				
E4/MF/B/ REPLICATE 2	[13-MAY-2017]	HK1718859-150		**3.4**				
G5/MF/S/ REPLICATE 1	[13-MAY-2017]	HK1718859-151		**1.2**				
G5/MF/S/ REPLICATE 2	[13-MAY-2017]	HK1718859-152		**1.3**				
G5/MF/M/ REPLICATE 1	[13-MAY-2017]	HK1718859-153		**1.0**				
G5/MF/M/ REPLICATE 2	[13-MAY-2017]	HK1718859-154		**1.8**				
G5/MF/B/ REPLICATE 1	[13-MAY-2017]	HK1718859-155		**0.7**				
G5/MF/B/ REPLICATE 2	[13-MAY-2017]	HK1718859-156		**1.8**				
G4/MF/S/ REPLICATE 1	[13-MAY-2017]	HK1718859-157		**0.6**				
G4/MF/S/ REPLICATE 2	[13-MAY-2017]	HK1718859-158		**1.8**				
G4/MF/M/ REPLICATE 1	[13-MAY-2017]	HK1718859-159		**0.8**				
G4/MF/M/ REPLICATE 2	[13-MAY-2017]	HK1718859-160		**1.8**				
G4/MF/B/ REPLICATE 1	[13-MAY-2017]	HK1718859-161		**1.7**				
G4/MF/B/ REPLICATE 2	[13-MAY-2017]	HK1718859-162		<0.5				
E7/MF/S/ REPLICATE 1	[13-MAY-2017]	HK1718859-163		**2.6**				
E7/MF/S/ REPLICATE 2	[13-MAY-2017]	HK1718859-164		**2.4**				
E7/MF/M/ REPLICATE 1	[13-MAY-2017]	HK1718859-165		**2.2**				
E7/MF/M/ REPLICATE 2	[13-MAY-2017]	HK1718859-166		**2.1**				
E7/MF/B/ REPLICATE 1	[13-MAY-2017]	HK1718859-167		**3.0**				
E7/MF/B/ REPLICATE 2	[13-MAY-2017]	HK1718859-168		**4.0**				
E6/MF/S/ REPLICATE 1	[13-MAY-2017]	HK1718859-169		**1.2**				
E6/MF/S/ REPLICATE 2	[13-MAY-2017]	HK1718859-170		**1.6**				
E6/MF/M/ REPLICATE 1	[13-MAY-2017]	HK1718859-171		**1.4**				
E6/MF/M/ REPLICATE 2	[13-MAY-2017]	HK1718859-172		**1.1**				
E6/MF/B/ REPLICATE 1	[13-MAY-2017]	HK1718859-173		**1.2**				
E6/MF/B/ REPLICATE 2	[13-MAY-2017]	HK1718859-174		**1.9**				
C1/MF/S/ REPLICATE 1	[13-MAY-2017]	HK1718859-175		**5.6**				

Sub-Matrix: **WATER**

Client sample ID	*Client sampling date / time*	*Laboratory sample ID*	*Compound*	**EA025: Suspended Solids (SS)**				
			LOR Unit	0.5 mg/L				
				EA/ED: Physical and Aggregate Properties				
C1/MF/S/ REPLICATE 2	[13-MAY-2017]	HK1718859-176		**5.7**				
C1/MF/M/ REPLICATE 1	[13-MAY-2017]	HK1718859-177		**6.8**				
C1/MF/M/ REPLICATE 2	[13-MAY-2017]	HK1718859-178		**6.1**				
C1/MF/B/ REPLICATE 1	[13-MAY-2017]	HK1718859-179		**5.6**				
C1/MF/B/ REPLICATE 2	[13-MAY-2017]	HK1718859-180		**6.5**				

Laboratory Duplicate (DUP) Report

Matrix: **WATER**

Laboratory sample ID	Client 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: 4481658)								
HK1718859-001	L1/ME/S/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	2.5	2.8	13.1
HK1718859-011	B1/ME/B/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	6.1	4.6	27.5
EA/ED: Physical and Aggregate Properties (QC Lot: 4481659)								
HK1718859-021	E1/ME/M/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	2.3	4.0	53.8
HK1718859-031	E3/ME/S/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	3.0	4.4	37.5
EA/ED: Physical and Aggregate Properties (QC Lot: 4481660)								
HK1718859-041	G1/ME/B/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	7.2	6.6	7.2
HK1718859-051	E5/ME/M/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	6.0	6.4	6.1
EA/ED: Physical and Aggregate Properties (QC Lot: 4481661)								
HK1718859-061	G5/ME/S/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	4.5	5.9	27.0
HK1718859-071	G4/ME/B/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	6.0	5.5	7.4
EA/ED: Physical and Aggregate Properties (QC Lot: 4481662)								
HK1718859-081	E6/ME/M/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	4.8	4.9	3.1
HK1718859-091	L1/MF/S/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	2.7	3.4	22.8
EA/ED: Physical and Aggregate Properties (QC Lot: 4481663)								
HK1718859-101	B1/MF/B/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	4.0	4.4	9.6
HK1718859-111	E1/MF/M/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	3.7	3.0	22.4
EA/ED: Physical and Aggregate Properties (QC Lot: 4481664)								
HK1718859-121	E3/MF/S/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	4.7	3.6	26.3
HK1718859-133	G2/MF/S/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	6.1	6.0	1.6
EA/ED: Physical and Aggregate Properties (QC Lot: 4481665)								
HK1718859-141	E5/MF/M/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	5.1	5.2	2.4
HK1718859-151	G5/MF/S/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	1.2	0.9	31.3
EA/ED: Physical and Aggregate Properties (QC Lot: 4481666)								
HK1718859-161	G4/MF/B/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	1.7	0.7	80.4
HK1718859-171	E6/MF/M/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	1.4	<0.5	94.7

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: 4481658)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20.0 mg/L	102	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 4481659)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20.0 mg/L	110	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 4481660)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20.0 mg/L	107	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 4481661)											

Matrix: **WATER**

		Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
					Spike	Spike Recovery (%)		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: 4481661) - continued											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20.0 mg/L	108	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 4481662)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20.0 mg/L	98.0	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 4481663)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20.0 mg/L	96.0	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 4481664)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20.0 mg/L	92.5	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 4481665)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20.0 mg/L	108	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 4481666)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20.0 mg/L	91.0	----	85	115	----	----

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	:	**AECOM ASIA COMPANY LIMITED**	*Laboratory*	:	**ALS Technichem (HK) Pty Ltd**	*Page*	: **1 of 10**
Contact	:	**MR Y W FUNG**	*Contact*	:	**Fung Lim Chee, Richard**	*Work Order*	: **HK1719431**
Address	:	**1501-10, 15/F, TOWER 1, GRAND CENTRAL PLAZA, 138 SHATIN RURAL COMMITTEE ROAD, SHATIN NEW TERRITORIES, HONG KONG**	*Address*	:	**11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong**		
E-mail	:	**yw.fung@aecom.com**	*E-mail*	:	**Richard.Fung@alsglobal.com**		
Telephone	:	**+852 3105 8544**	*Telephone*	:	**+852 2610 1044**		
Facsimile	:	**----**	*Facsimile*	:	**+852 2610 2021**		
Project	:	**WATER QUALITY MONITORING FOR ASIA-AFRICA-EUROPE-1 CABLE SYSTEM (AAE-1) AT CAPE D AGUILAR HONG KONG**	*Quote number*	:	**----**	*Date received*	: **16-MAY-2017**
Order number	:	**----**				*Date of issue*	: **25-MAY-2017**
C-O-C number	:	**----**				*No. of samples*	- *Received* : **180**
Site	:	**----**					- *Analysed* : **180**

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	**General Manager**	**Inorganics**

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK1719431 supersedes any previous reports with this reference. Testing period is from 16-MAY-2017 to 25-MAY-2017. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for process purposes. Abbreviations: CAS number = Chemical Abstract Services number. LOR = Limit of reporting.

Specific Comments for Work Order HK1719431 :

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.
Sample(s) were picked up from client by ALS Technichem (HK) staff in chilled condition.
Water sample(s) analysed and reported on an as received basis.

Analytical Results

Sub-Matrix: **WATER**

Client sample ID	Client sampling date / time	Laboratory sample ID	Compound	EA025: Suspended Solids (SS)				
			LOR Unit	0.5 mg/L				
				EA/ED: Physical and Aggregate Properties				
L1/ME/S/ REPLICATE 1	[16-MAY-2017]	HK1719431-001		**1.0**				
L1/ME/S/ REPLICATE 2	[16-MAY-2017]	HK1719431-002		**0.6**				
L1/ME/M/ REPLICATE 1	[16-MAY-2017]	HK1719431-003		**0.6**				
L1/ME/M/ REPLICATE 2	[16-MAY-2017]	HK1719431-004		<0.5				
L1/ME/B/ REPLICATE 1	[16-MAY-2017]	HK1719431-005		**1.0**				
L1/ME/B/ REPLICATE 2	[16-MAY-2017]	HK1719431-006		**1.4**				
B1/ME/S/ REPLICATE 1	[16-MAY-2017]	HK1719431-007		**0.9**				
B1/ME/S/ REPLICATE 2	[16-MAY-2017]	HK1719431-008		**1.5**				
B1/ME/M/ REPLICATE 1	[16-MAY-2017]	HK1719431-009		**1.3**				
B1/ME/M/ REPLICATE 2	[16-MAY-2017]	HK1719431-010		**0.8**				
B1/ME/B/ REPLICATE 1	[16-MAY-2017]	HK1719431-011		**0.9**				
B1/ME/B/ REPLICATE 2	[16-MAY-2017]	HK1719431-012		**1.0**				
G3/ME/S/ REPLICATE 1	[16-MAY-2017]	HK1719431-013		**1.4**				
G3/ME/S/ REPLICATE 2	[16-MAY-2017]	HK1719431-014		**1.8**				
G3/ME/M/ REPLICATE 1	[16-MAY-2017]	HK1719431-015		<0.5				
G3/ME/M/ REPLICATE 2	[16-MAY-2017]	HK1719431-016		<0.5				
G3/ME/B/ REPLICATE 1	[16-MAY-2017]	HK1719431-017		**1.5**				
G3/ME/B/ REPLICATE 2	[16-MAY-2017]	HK1719431-018		**1.2**				
E1/ME/S/ REPLICATE 1	[16-MAY-2017]	HK1719431-019		**1.4**				
E1/ME/S/ REPLICATE 2	[16-MAY-2017]	HK1719431-020		**0.9**				
E1/ME/M/ REPLICATE 1	[16-MAY-2017]	HK1719431-021		**1.0**				
E1/ME/M/ REPLICATE 2	[16-MAY-2017]	HK1719431-022		**1.1**				
E1/ME/B/ REPLICATE 1	[16-MAY-2017]	HK1719431-023		**2.5**				
E1/ME/B/ REPLICATE 2	[16-MAY-2017]	HK1719431-024		**3.8**				
E2/ME/S/ REPLICATE 1	[16-MAY-2017]	HK1719431-025		**1.9**				
E2/ME/S/ REPLICATE 2	[16-MAY-2017]	HK1719431-026		**1.9**				
E2/ME/M/ REPLICATE 1	[16-MAY-2017]	HK1719431-027		**0.5**				
E2/ME/M/ REPLICATE 2	[16-MAY-2017]	HK1719431-028		**0.9**				
E2/ME/B/ REPLICATE 1	[16-MAY-2017]	HK1719431-029		**3.0**				
E2/ME/B/ REPLICATE 2	[16-MAY-2017]	HK1719431-030		**2.7**				
E3/ME/S/ REPLICATE 1	[16-MAY-2017]	HK1719431-031		**0.9**				
E3/ME/S/ REPLICATE 2	[16-MAY-2017]	HK1719431-032		**1.5**				
E3/ME/M/ REPLICATE 1	[16-MAY-2017]	HK1719431-033		**1.0**				
E3/ME/M/ REPLICATE 2	[16-MAY-2017]	HK1719431-034		**1.4**				
E3/ME/B/ REPLICATE 1	[16-MAY-2017]	HK1719431-035		**1.7**				

Sub-Matrix: **WATER**

Client sample ID	Client sampling date / time	Laboratory sample ID	Compound	EA025: Suspended Solids (SS)				
			LOR Unit	0.5 mg/L				
				EA/ED: Physical and Aggregate Properties				
E3/ME/B/ REPLICATE 2	[16-MAY-2017]	HK1719431-036		**1.8**				
G1/ME/S/ REPLICATE 1	[16-MAY-2017]	HK1719431-037		**1.9**				
G1/ME/S/ REPLICATE 2	[16-MAY-2017]	HK1719431-038		**1.8**				
G1/ME/M/ REPLICATE 1	[16-MAY-2017]	HK1719431-039		**1.3**				
G1/ME/M/ REPLICATE 2	[16-MAY-2017]	HK1719431-040		**1.8**				
G1/ME/B/ REPLICATE 1	[16-MAY-2017]	HK1719431-041		<0.5				
G1/ME/B/ REPLICATE 2	[16-MAY-2017]	HK1719431-042		<0.5				
G2/ME/S/ REPLICATE 1	[16-MAY-2017]	HK1719431-043		**0.7**				
G2/ME/S/ REPLICATE 2	[16-MAY-2017]	HK1719431-044		<0.5				
G2/ME/M/ REPLICATE 1	[16-MAY-2017]	HK1719431-045		**1.0**				
G2/ME/M/ REPLICATE 2	[16-MAY-2017]	HK1719431-046		**1.3**				
G2/ME/B/ REPLICATE 1	[16-MAY-2017]	HK1719431-047		**1.8**				
G2/ME/B/ REPLICATE 2	[16-MAY-2017]	HK1719431-048		**1.3**				
E5/ME/S/ REPLICATE 1	[16-MAY-2017]	HK1719431-049		**1.2**				
E5/ME/S/ REPLICATE 2	[16-MAY-2017]	HK1719431-050		**1.5**				
E5/ME/M/ REPLICATE 1	[16-MAY-2017]	HK1719431-051		**0.8**				
E5/ME/M/ REPLICATE 2	[16-MAY-2017]	HK1719431-052		<0.5				
E5/ME/B/ REPLICATE 1	[16-MAY-2017]	HK1719431-053		**0.8**				
E5/ME/B/ REPLICATE 2	[16-MAY-2017]	HK1719431-054		**1.4**				
E4/ME/S/ REPLICATE 1	[16-MAY-2017]	HK1719431-055		**0.5**				
E4/ME/S/ REPLICATE 2	[16-MAY-2017]	HK1719431-056		<0.5				
E4/ME/M/ REPLICATE 1	[16-MAY-2017]	HK1719431-057		**0.7**				
E4/ME/M/ REPLICATE 2	[16-MAY-2017]	HK1719431-058		**1.0**				
E4/ME/B/ REPLICATE 1	[16-MAY-2017]	HK1719431-059		**0.9**				
E4/ME/B/ REPLICATE 2	[16-MAY-2017]	HK1719431-060		**1.9**				
G5/ME/S/ REPLICATE 1	[16-MAY-2017]	HK1719431-061		**0.7**				
G5/ME/S/ REPLICATE 2	[16-MAY-2017]	HK1719431-062		**1.1**				
G5/ME/M/ REPLICATE 1	[16-MAY-2017]	HK1719431-063		**0.6**				
G5/ME/M/ REPLICATE 2	[16-MAY-2017]	HK1719431-064		**0.9**				
G5/ME/B/ REPLICATE 1	[16-MAY-2017]	HK1719431-065		**0.8**				
G5/ME/B/ REPLICATE 2	[16-MAY-2017]	HK1719431-066		**1.0**				
G4/ME/S/ REPLICATE 1	[16-MAY-2017]	HK1719431-067		**1.5**				
G4/ME/S/ REPLICATE 2	[16-MAY-2017]	HK1719431-068		**1.0**				
G4/ME/M/ REPLICATE 1	[16-MAY-2017]	HK1719431-069		**0.5**				
G4/ME/M/ REPLICATE 2	[16-MAY-2017]	HK1719431-070		<0.5				

Sub-Matrix: **WATER**

Client sample ID	*Client sampling date / time*	*Laboratory sample ID*	*Compound*	**EA025: Suspended Solids (SS)**				
			LOR Unit	0.5 mg/L				
				EA/ED: Physical and Aggregate Properties				
G4/ME/B/ REPLICATE 1	[16-MAY-2017]	HK1719431-071		<0.5				
G4/ME/B/ REPLICATE 2	[16-MAY-2017]	HK1719431-072		<0.5				
E7/ME/S/ REPLICATE 1	[16-MAY-2017]	HK1719431-073		<0.5				
E7/ME/S/ REPLICATE 2	[16-MAY-2017]	HK1719431-074		<0.5				
E7/ME/M/ REPLICATE 1	[16-MAY-2017]	HK1719431-075		<0.5				
E7/ME/M/ REPLICATE 2	[16-MAY-2017]	HK1719431-076		<0.5				
E7/ME/B/ REPLICATE 1	[16-MAY-2017]	HK1719431-077		<0.5				
E7/ME/B/ REPLICATE 2	[16-MAY-2017]	HK1719431-078		<0.5				
E6/ME/S/ REPLICATE 1	[16-MAY-2017]	HK1719431-079		<0.5				
E6/ME/S/ REPLICATE 2	[16-MAY-2017]	HK1719431-080		**0.6**				
E6/ME/M/ REPLICATE 1	[16-MAY-2017]	HK1719431-081		**0.8**				
E6/ME/M/ REPLICATE 2	[16-MAY-2017]	HK1719431-082		**1.6**				
E6/ME/B/ REPLICATE 1	[16-MAY-2017]	HK1719431-083		**3.0**				
E6/ME/B/ REPLICATE 2	[16-MAY-2017]	HK1719431-084		**3.0**				
C1/ME/S/ REPLICATE 1	[16-MAY-2017]	HK1719431-085		**1.0**				
C1/ME/S/ REPLICATE 2	[16-MAY-2017]	HK1719431-086		**1.3**				
C1/ME/M/ REPLICATE 1	[16-MAY-2017]	HK1719431-087		**0.8**				
C1/ME/M/ REPLICATE 2	[16-MAY-2017]	HK1719431-088		**1.2**				
C1/ME/B/ REPLICATE 1	[16-MAY-2017]	HK1719431-089		**0.9**				
C1/ME/B/ REPLICATE 2	[16-MAY-2017]	HK1719431-090		**1.5**				
L1/MF/S/ REPLICATE 1	[16-MAY-2017]	HK1719431-091		<0.5				
L1/MF/S/ REPLICATE 2	[16-MAY-2017]	HK1719431-092		**0.9**				
L1/MF/M/ REPLICATE 1	[16-MAY-2017]	HK1719431-093		**1.4**				
L1/MF/M/ REPLICATE 2	[16-MAY-2017]	HK1719431-094		**1.4**				
L1/MF/B/ REPLICATE 1	[16-MAY-2017]	HK1719431-095		**2.4**				
L1/MF/B/ REPLICATE 2	[16-MAY-2017]	HK1719431-096		**2.4**				
B1/MF/S/ REPLICATE 1	[16-MAY-2017]	HK1719431-097		**1.5**				
B1/MF/S/ REPLICATE 2	[16-MAY-2017]	HK1719431-098		**1.3**				
B1/MF/M/ REPLICATE 1	[16-MAY-2017]	HK1719431-099		**3.5**				
B1/MF/M/ REPLICATE 2	[16-MAY-2017]	HK1719431-100		**3.0**				
B1/MF/B/ REPLICATE 1	[16-MAY-2017]	HK1719431-101		**2.8**				
B1/MF/B/ REPLICATE 2	[16-MAY-2017]	HK1719431-102		**4.3**				
G3/MF/S/ REPLICATE 1	[16-MAY-2017]	HK1719431-103		**1.9**				
G3/MF/S/ REPLICATE 2	[16-MAY-2017]	HK1719431-104		**1.9**				
G3/MF/M/ REPLICATE 1	[16-MAY-2017]	HK1719431-105		**1.6**				

Sub-Matrix: **WATER**

Client sample ID	*Client sampling date / time*	*Laboratory sample ID*	*Compound*	**EA025: Suspended Solids (SS)**				
			LOR Unit	0.5 mg/L				
				EA/ED: Physical and Aggregate Properties				
G3/MF/M/ REPLICATE 2	[16-MAY-2017]	HK1719431-106		**1.0**				
G3/MF/B/ REPLICATE 1	[16-MAY-2017]	HK1719431-107		**1.7**				
G3/MF/B/ REPLICATE 2	[16-MAY-2017]	HK1719431-108		**1.3**				
E1/MF/S/ REPLICATE 1	[16-MAY-2017]	HK1719431-109		**0.9**				
E1/MF/S/ REPLICATE 2	[16-MAY-2017]	HK1719431-110		**1.6**				
E1/MF/M/ REPLICATE 1	[16-MAY-2017]	HK1719431-111		**1.9**				
E1/MF/M/ REPLICATE 2	[16-MAY-2017]	HK1719431-112		**1.7**				
E1/MF/B/ REPLICATE 1	[16-MAY-2017]	HK1719431-113		**1.1**				
E1/MF/B/ REPLICATE 2	[16-MAY-2017]	HK1719431-114		**1.8**				
E2/MF/S/ REPLICATE 1	[16-MAY-2017]	HK1719431-115		**1.7**				
E2/MF/S/ REPLICATE 2	[16-MAY-2017]	HK1719431-116		**1.7**				
E2/MF/M/ REPLICATE 1	[16-MAY-2017]	HK1719431-117		**3.5**				
E2/MF/M/ REPLICATE 2	[16-MAY-2017]	HK1719431-118		**2.4**				
E2/MF/B/ REPLICATE 1	[16-MAY-2017]	HK1719431-119		**2.7**				
E2/MF/B/ REPLICATE 2	[16-MAY-2017]	HK1719431-120		**2.1**				
E3/MF/S/ REPLICATE 1	[16-MAY-2017]	HK1719431-121		**1.5**				
E3/MF/S/ REPLICATE 2	[16-MAY-2017]	HK1719431-122		**1.5**				
E3/MF/M/ REPLICATE 1	[16-MAY-2017]	HK1719431-123		**1.9**				
E3/MF/M/ REPLICATE 2	[16-MAY-2017]	HK1719431-124		**1.2**				
E3/MF/B/ REPLICATE 1	[16-MAY-2017]	HK1719431-125		**2.8**				
E3/MF/B/ REPLICATE 2	[16-MAY-2017]	HK1719431-126		**3.0**				
G1/MF/S/ REPLICATE 1	[16-MAY-2017]	HK1719431-127		**3.9**				
G1/MF/S/ REPLICATE 2	[16-MAY-2017]	HK1719431-128		**3.9**				
G1/MF/M/ REPLICATE 1	[16-MAY-2017]	HK1719431-129		**3.2**				
G1/MF/M/ REPLICATE 2	[16-MAY-2017]	HK1719431-130		**2.6**				
G1/MF/B/ REPLICATE 1	[16-MAY-2017]	HK1719431-131		**2.6**				
G1/MF/B/ REPLICATE 2	[16-MAY-2017]	HK1719431-132		**4.0**				
G2/MF/S/ REPLICATE 1	[16-MAY-2017]	HK1719431-133		**1.7**				
G2/MF/S/ REPLICATE 2	[16-MAY-2017]	HK1719431-134		**1.9**				
G2/MF/M/ REPLICATE 1	[16-MAY-2017]	HK1719431-135		**1.8**				
G2/MF/M/ REPLICATE 2	[16-MAY-2017]	HK1719431-136		**1.4**				
G2/MF/B/ REPLICATE 1	[16-MAY-2017]	HK1719431-137		**3.7**				
G2/MF/B/ REPLICATE 2	[16-MAY-2017]	HK1719431-138		**3.3**				
E5/MF/S/ REPLICATE 1	[16-MAY-2017]	HK1719431-139		**4.7**				
E5/MF/S/ REPLICATE 2	[16-MAY-2017]	HK1719431-140		**4.7**				

Sub-Matrix: **WATER**

Client sample ID	*Client sampling date / time*	*Laboratory sample ID*	*Compound*	**EA025: Suspended Solids (SS)**				
			LOR Unit	0.5 mg/L				
				EA/ED: Physical and Aggregate Properties				
E5/MF/M/ REPLICATE 1	[16-MAY-2017]	HK1719431-141		**3.9**				
E5/MF/M/ REPLICATE 2	[16-MAY-2017]	HK1719431-142		**5.1**				
E5/MF/B/ REPLICATE 1	[16-MAY-2017]	HK1719431-143		**5.3**				
E5/MF/B/ REPLICATE 2	[16-MAY-2017]	HK1719431-144		**2.6**				
E4/MF/S/ REPLICATE 1	[16-MAY-2017]	HK1719431-145		**2.4**				
E4/MF/S/ REPLICATE 2	[16-MAY-2017]	HK1719431-146		**3.9**				
E4/MF/M/ REPLICATE 1	[16-MAY-2017]	HK1719431-147		**3.5**				
E4/MF/M/ REPLICATE 2	[16-MAY-2017]	HK1719431-148		**2.0**				
E4/MF/B/ REPLICATE 1	[16-MAY-2017]	HK1719431-149		**3.3**				
E4/MF/B/ REPLICATE 2	[16-MAY-2017]	HK1719431-150		**3.3**				
G5/MF/S/ REPLICATE 1	[16-MAY-2017]	HK1719431-151		**4.6**				
G5/MF/S/ REPLICATE 2	[16-MAY-2017]	HK1719431-152		**3.8**				
G5/MF/M/ REPLICATE 1	[16-MAY-2017]	HK1719431-153		**3.6**				
G5/MF/M/ REPLICATE 2	[16-MAY-2017]	HK1719431-154		**4.6**				
G5/MF/B/ REPLICATE 1	[16-MAY-2017]	HK1719431-155		**3.7**				
G5/MF/B/ REPLICATE 2	[16-MAY-2017]	HK1719431-156		**4.1**				
G4/MF/S/ REPLICATE 1	[16-MAY-2017]	HK1719431-157		**1.9**				
G4/MF/S/ REPLICATE 2	[16-MAY-2017]	HK1719431-158		**1.7**				
G4/MF/M/ REPLICATE 1	[16-MAY-2017]	HK1719431-159		**1.4**				
G4/MF/M/ REPLICATE 2	[16-MAY-2017]	HK1719431-160		**1.6**				
G4/MF/B/ REPLICATE 1	[16-MAY-2017]	HK1719431-161		**1.2**				
G4/MF/B/ REPLICATE 2	[16-MAY-2017]	HK1719431-162		**1.5**				
E7/MF/S/ REPLICATE 1	[16-MAY-2017]	HK1719431-163		**1.7**				
E7/MF/S/ REPLICATE 2	[16-MAY-2017]	HK1719431-164		**1.9**				
E7/MF/M/ REPLICATE 1	[16-MAY-2017]	HK1719431-165		**4.6**				
E7/MF/M/ REPLICATE 2	[16-MAY-2017]	HK1719431-166		**5.7**				
E7/MF/B/ REPLICATE 1	[16-MAY-2017]	HK1719431-167		**3.3**				
E7/MF/B/ REPLICATE 2	[16-MAY-2017]	HK1719431-168		**2.7**				
E6/MF/S/ REPLICATE 1	[16-MAY-2017]	HK1719431-169		**1.0**				
E6/MF/S/ REPLICATE 2	[16-MAY-2017]	HK1719431-170		**0.7**				
E6/MF/M/ REPLICATE 1	[16-MAY-2017]	HK1719431-171		**1.1**				
E6/MF/M/ REPLICATE 2	[16-MAY-2017]	HK1719431-172		**1.0**				
E6/MF/B/ REPLICATE 1	[16-MAY-2017]	HK1719431-173		**3.1**				
E6/MF/B/ REPLICATE 2	[16-MAY-2017]	HK1719431-174		**2.9**				
C1/MF/S/ REPLICATE 1	[16-MAY-2017]	HK1719431-175		**1.0**				

Sub-Matrix: **WATER**

Client sample ID	*Client sampling date / time*	*Laboratory sample ID*	*Compound*	**EA025: Suspended Solids (SS)**				
			LOR Unit	0.5 mg/L				
				EA/ED: Physical and Aggregate Properties				
C1/MF/S/ REPLICATE 2	[16-MAY-2017]	HK1719431-176		**1.0**				
C1/MF/M/ REPLICATE 1	[16-MAY-2017]	HK1719431-177		**0.8**				
C1/MF/M/ REPLICATE 2	[16-MAY-2017]	HK1719431-178		**0.6**				
C1/MF/B/ REPLICATE 1	[16-MAY-2017]	HK1719431-179		**1.3**				
C1/MF/B/ REPLICATE 2	[16-MAY-2017]	HK1719431-180		**0.7**				

Laboratory Duplicate (DUP) Report

Matrix: **WATER**

Laboratory sample ID	Client 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: 4483344)								
HK1719431-001	L1/ME/S/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	1.0	0.9	15.4
HK1719431-011	B1/ME/B/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	0.9	0.8	0.0
EA/ED: Physical and Aggregate Properties (QC Lot: 4483345)								
HK1719431-021	E1/ME/M/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	1.0	1.4	28.6
HK1719431-031	E3/ME/S/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	0.9	0.7	31.2
EA/ED: Physical and Aggregate Properties (QC Lot: 4483346)								
HK1719431-041	G1/ME/B/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	<0.5	0.0
HK1719431-051	E5/ME/M/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	0.8	1.1	36.8
EA/ED: Physical and Aggregate Properties (QC Lot: 4483347)								
HK1719431-061	G5/ME/S/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	0.7	0.8	0.0
HK1719431-071	G4/ME/B/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	<0.5	0.0
EA/ED: Physical and Aggregate Properties (QC Lot: 4483348)								
HK1719431-081	E6/ME/M/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	0.8	0.9	0.0
HK1719431-091	L1/MF/S/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	<0.5	0.0
EA/ED: Physical and Aggregate Properties (QC Lot: 4483349)								
HK1719431-101	B1/MF/B/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	2.8	2.0	33.3
HK1719431-111	E1/MF/M/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	1.9	1.4	27.3
EA/ED: Physical and Aggregate Properties (QC Lot: 4483350)								
HK1719431-121	E3/MF/S/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	1.5	1.2	20.6
HK1719431-131	G1/MF/B/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	2.6	2.0	29.5
EA/ED: Physical and Aggregate Properties (QC Lot: 4483351)								
HK1719431-141	E5/MF/M/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	3.9	3.1	23.5
HK1719431-151	G5/MF/S/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	4.6	3.6	24.9
EA/ED: Physical and Aggregate Properties (QC Lot: 4483352)								
HK1719431-161	G4/MF/B/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	1.2	1.2	0.0
HK1719431-171	E6/MF/M/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	1.1	1.0	16.9

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: 4483344)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20.0 mg/L	93.0	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 4483345)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20.0 mg/L	91.5	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 4483346)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20.0 mg/L	104	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 4483347)											

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: 4483347) - continued											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20.0 mg/L	93.5	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 4483348)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20.0 mg/L	95.0	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 4483349)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20.0 mg/L	102	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 4483350)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20.0 mg/L	102	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 4483351)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20.0 mg/L	106	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 4483352)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20.0 mg/L	100	----	85	115	----	----

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	:	**AECOM ASIA COMPANY LIMITED**	*Laboratory*	:	**ALS Technichem (HK) Pty Ltd**	*Page*	: **1 of 10**
Contact	:	**MR Y W FUNG**	*Contact*	:	**Fung Lim Chee, Richard**	*Work Order*	: **HK1720248**
Address	:	**1501-10, 15/F, TOWER 1, GRAND CENTRAL PLAZA, 138 SHATIN RURAL COMMITTEE ROAD, SHATIN NEW TERRITORIES, HONG KONG**	*Address*	:	**11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong**		
E-mail	:	**yw.fung@aecom.com**	*E-mail*	:	**Richard.Fung@alsglobal.com**		
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Facsimile	:	**----**	*Facsimile*	:	**+852 2610 2021**		
Project	:	**WATER QUALITY MONITORING FOR ASIA-AFRICA-EUROPE-1 CABLE SYSTEM (AAE-1) AT CAPE D AGUILAR HONG KONG**	*Quote number*	:	**----**	*Date received*	: **18-MAY-2017**
Order number	:	**----**				*Date of issue*	: **29-MAY-2017**
C-O-C number	:	**----**				*No. of samples*	- *Received* : **180**
Site	:	**----**					- *Analysed* : **180**

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	**General Manager**	**Inorganics**

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK1720248 supersedes any previous reports with this reference. Testing period is from 18-MAY-2017 to 26-MAY-2017. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for process purposes. Abbreviations: CAS number = Chemical Abstract Services number. LOR = Limit of reporting.

Specific Comments for Work Order HK1720248 :

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.
Sample(s) were picked up from client by ALS Technichem (HK) staff in chilled condition.
Water sample(s) analysed and reported on an as received basis.

Analytical Results

Sub-Matrix: **WATER**

Client sample ID	Client sampling date / time	Laboratory sample ID	Compound	EA025: Suspended Solids (SS)				
			LOR Unit	0.5 mg/L				
				EA/ED: Physical and Aggregate Properties				
L1/ME/S/ REPLICATE 1	[18-MAY-2017]	HK1720248-001		**6.7**				
L1/ME/S/ REPLICATE 2	[18-MAY-2017]	HK1720248-002		**5.8**				
L1/ME/M/ REPLICATE 1	[18-MAY-2017]	HK1720248-003		**7.4**				
L1/ME/M/ REPLICATE 2	[18-MAY-2017]	HK1720248-004		**5.4**				
L1/ME/B/ REPLICATE 1	[18-MAY-2017]	HK1720248-005		**4.1**				
L1/ME/B/ REPLICATE 2	[18-MAY-2017]	HK1720248-006		**6.5**				
B1/ME/S/ REPLICATE 1	[18-MAY-2017]	HK1720248-007		**8.8**				
B1/ME/S/ REPLICATE 2	[18-MAY-2017]	HK1720248-008		**6.6**				
B1/ME/M/ REPLICATE 1	[18-MAY-2017]	HK1720248-009		**9.7**				
B1/ME/M/ REPLICATE 2	[18-MAY-2017]	HK1720248-010		**8.6**				
B1/ME/B/ REPLICATE 1	[18-MAY-2017]	HK1720248-011		**6.7**				
B1/ME/B/ REPLICATE 2	[18-MAY-2017]	HK1720248-012		**9.3**				
G3/ME/S/ REPLICATE 1	[18-MAY-2017]	HK1720248-013		**5.5**				
G3/ME/S/ REPLICATE 2	[18-MAY-2017]	HK1720248-014		**4.2**				
G3/ME/M/ REPLICATE 1	[18-MAY-2017]	HK1720248-015		**2.0**				
G3/ME/M/ REPLICATE 2	[18-MAY-2017]	HK1720248-016		**2.9**				
G3/ME/B/ REPLICATE 1	[18-MAY-2017]	HK1720248-017		**6.9**				
G3/ME/B/ REPLICATE 2	[18-MAY-2017]	HK1720248-018		**5.5**				
E1/ME/S/ REPLICATE 1	[18-MAY-2017]	HK1720248-019		**6.4**				
E1/ME/S/ REPLICATE 2	[18-MAY-2017]	HK1720248-020		**5.3**				
E1/ME/M/ REPLICATE 1	[18-MAY-2017]	HK1720248-021		**2.3**				
E1/ME/M/ REPLICATE 2	[18-MAY-2017]	HK1720248-022		**3.5**				
E1/ME/B/ REPLICATE 1	[18-MAY-2017]	HK1720248-023		**2.9**				
E1/ME/B/ REPLICATE 2	[18-MAY-2017]	HK1720248-024		**3.3**				
E2/ME/S/ REPLICATE 1	[18-MAY-2017]	HK1720248-025		**5.5**				
E2/ME/S/ REPLICATE 2	[18-MAY-2017]	HK1720248-026		**8.3**				
E2/ME/M/ REPLICATE 1	[18-MAY-2017]	HK1720248-027		**4.7**				
E2/ME/M/ REPLICATE 2	[18-MAY-2017]	HK1720248-028		**6.7**				
E2/ME/B/ REPLICATE 1	[18-MAY-2017]	HK1720248-029		**3.6**				
E2/ME/B/ REPLICATE 2	[18-MAY-2017]	HK1720248-030		**2.5**				
E3/ME/S/ REPLICATE 1	[18-MAY-2017]	HK1720248-031		**2.0**				
E3/ME/S/ REPLICATE 2	[18-MAY-2017]	HK1720248-032		**2.5**				
E3/ME/M/ REPLICATE 1	[18-MAY-2017]	HK1720248-033		**2.2**				
E3/ME/M/ REPLICATE 2	[18-MAY-2017]	HK1720248-034		**1.1**				
E3/ME/B/ REPLICATE 1	[18-MAY-2017]	HK1720248-035		**5.5**				

Sub-Matrix: **WATER**

Client sample ID	*Client sampling date / time*	*Laboratory sample ID*	*Compound*	**EA025: Suspended Solids (SS)**				
			LOR Unit	0.5 mg/L				
				EA/ED: Physical and Aggregate Properties				
E3/ME/B/ REPLICATE 2	[18-MAY-2017]	HK1720248-036		**3.7**				
G1/ME/S/ REPLICATE 1	[18-MAY-2017]	HK1720248-037		**1.7**				
G1/ME/S/ REPLICATE 2	[18-MAY-2017]	HK1720248-038		**2.5**				
G1/ME/M/ REPLICATE 1	[18-MAY-2017]	HK1720248-039		**2.7**				
G1/ME/M/ REPLICATE 2	[18-MAY-2017]	HK1720248-040		**5.4**				
G1/ME/B/ REPLICATE 1	[18-MAY-2017]	HK1720248-041		**2.5**				
G1/ME/B/ REPLICATE 2	[18-MAY-2017]	HK1720248-042		**1.8**				
G2/ME/S/ REPLICATE 1	[18-MAY-2017]	HK1720248-043		**0.8**				
G2/ME/S/ REPLICATE 2	[18-MAY-2017]	HK1720248-044		<0.5				
G2/ME/M/ REPLICATE 1	[18-MAY-2017]	HK1720248-045		**1.1**				
G2/ME/M/ REPLICATE 2	[18-MAY-2017]	HK1720248-046		**1.9**				
G2/ME/B/ REPLICATE 1	[18-MAY-2017]	HK1720248-047		**2.4**				
G2/ME/B/ REPLICATE 2	[18-MAY-2017]	HK1720248-048		**2.6**				
E5/ME/S/ REPLICATE 1	[18-MAY-2017]	HK1720248-049		**2.4**				
E5/ME/S/ REPLICATE 2	[18-MAY-2017]	HK1720248-050		**2.2**				
E5/ME/M/ REPLICATE 1	[18-MAY-2017]	HK1720248-051		**2.0**				
E5/ME/M/ REPLICATE 2	[18-MAY-2017]	HK1720248-052		**1.8**				
E5/ME/B/ REPLICATE 1	[18-MAY-2017]	HK1720248-053		**4.1**				
E5/ME/B/ REPLICATE 2	[18-MAY-2017]	HK1720248-054		**3.4**				
E4/ME/S/ REPLICATE 1	[18-MAY-2017]	HK1720248-055		**5.3**				
E4/ME/S/ REPLICATE 2	[18-MAY-2017]	HK1720248-056		**2.9**				
E4/ME/M/ REPLICATE 1	[18-MAY-2017]	HK1720248-057		**5.3**				
E4/ME/M/ REPLICATE 2	[18-MAY-2017]	HK1720248-058		**3.6**				
E4/ME/B/ REPLICATE 1	[18-MAY-2017]	HK1720248-059		**5.4**				
E4/ME/B/ REPLICATE 2	[18-MAY-2017]	HK1720248-060		**3.2**				
G5/ME/S/ REPLICATE 1	[18-MAY-2017]	HK1720248-061		**6.9**				
G5/ME/S/ REPLICATE 2	[18-MAY-2017]	HK1720248-062		**6.0**				
G5/ME/M/ REPLICATE 1	[18-MAY-2017]	HK1720248-063		**8.4**				
G5/ME/M/ REPLICATE 2	[18-MAY-2017]	HK1720248-064		**6.6**				
G5/ME/B/ REPLICATE 1	[18-MAY-2017]	HK1720248-065		**2.5**				
G5/ME/B/ REPLICATE 2	[18-MAY-2017]	HK1720248-066		**3.1**				
G4/ME/S/ REPLICATE 1	[18-MAY-2017]	HK1720248-067		**3.2**				
G4/ME/S/ REPLICATE 2	[18-MAY-2017]	HK1720248-068		**2.1**				
G4/ME/M/ REPLICATE 1	[18-MAY-2017]	HK1720248-069		**3.1**				
G4/ME/M/ REPLICATE 2	[18-MAY-2017]	HK1720248-070		**2.3**				

Sub-Matrix: **WATER**

Client sample ID	*Client sampling date / time*	*Laboratory sample ID*	*Compound*	**EA025: Suspended Solids (SS)**				
			LOR Unit	0.5 mg/L				
				EA/ED: Physical and Aggregate Properties				
G4/ME/B/ REPLICATE 1	[18-MAY-2017]	HK1720248-071		**2.2**				
G4/ME/B/ REPLICATE 2	[18-MAY-2017]	HK1720248-072		**4.0**				
E7/ME/S/ REPLICATE 1	[18-MAY-2017]	HK1720248-073		**0.9**				
E7/ME/S/ REPLICATE 2	[18-MAY-2017]	HK1720248-074		**1.7**				
E7/ME/M/ REPLICATE 1	[18-MAY-2017]	HK1720248-075		**3.3**				
E7/ME/M/ REPLICATE 2	[18-MAY-2017]	HK1720248-076		**5.1**				
E7/ME/B/ REPLICATE 1	[18-MAY-2017]	HK1720248-077		**2.2**				
E7/ME/B/ REPLICATE 2	[18-MAY-2017]	HK1720248-078		**3.1**				
E6/ME/S/ REPLICATE 1	[18-MAY-2017]	HK1720248-079		**2.0**				
E6/ME/S/ REPLICATE 2	[18-MAY-2017]	HK1720248-080		**1.9**				
E6/ME/M/ REPLICATE 1	[18-MAY-2017]	HK1720248-081		**1.4**				
E6/ME/M/ REPLICATE 2	[18-MAY-2017]	HK1720248-082		**2.9**				
E6/ME/B/ REPLICATE 1	[18-MAY-2017]	HK1720248-083		<0.5				
E6/ME/B/ REPLICATE 2	[18-MAY-2017]	HK1720248-084		<0.5				
C1/ME/S/ REPLICATE 1	[18-MAY-2017]	HK1720248-085		**3.1**				
C1/ME/S/ REPLICATE 2	[18-MAY-2017]	HK1720248-086		**4.2**				
C1/ME/M/ REPLICATE 1	[18-MAY-2017]	HK1720248-087		**4.2**				
C1/ME/M/ REPLICATE 2	[18-MAY-2017]	HK1720248-088		**4.2**				
C1/ME/B/ REPLICATE 1	[18-MAY-2017]	HK1720248-089		**1.7**				
C1/ME/B/ REPLICATE 2	[18-MAY-2017]	HK1720248-090		**1.0**				
L1/MF/S/ REPLICATE 1	[18-MAY-2017]	HK1720248-091		**2.2**				
L1/MF/S/ REPLICATE 2	[18-MAY-2017]	HK1720248-092		**2.3**				
L1/MF/M/ REPLICATE 1	[18-MAY-2017]	HK1720248-093		**6.8**				
L1/MF/M/ REPLICATE 2	[18-MAY-2017]	HK1720248-094		**4.7**				
L1/MF/B/ REPLICATE 1	[18-MAY-2017]	HK1720248-095		**2.6**				
L1/MF/B/ REPLICATE 2	[18-MAY-2017]	HK1720248-096		**5.2**				
B1/MF/S/ REPLICATE 1	[18-MAY-2017]	HK1720248-097		**3.2**				
B1/MF/S/ REPLICATE 2	[18-MAY-2017]	HK1720248-098		**2.8**				
B1/MF/M/ REPLICATE 1	[18-MAY-2017]	HK1720248-099		**3.3**				
B1/MF/M/ REPLICATE 2	[18-MAY-2017]	HK1720248-100		**3.4**				
B1/MF/B/ REPLICATE 1	[18-MAY-2017]	HK1720248-101		**4.7**				
B1/MF/B/ REPLICATE 2	[18-MAY-2017]	HK1720248-102		**6.4**				
G3/MF/S/ REPLICATE 1	[18-MAY-2017]	HK1720248-103		**1.8**				
G3/MF/S/ REPLICATE 2	[18-MAY-2017]	HK1720248-104		**0.9**				
G3/MF/M/ REPLICATE 1	[18-MAY-2017]	HK1720248-105		**2.4**				

Sub-Matrix: **WATER**

Client sample ID	*Client sampling date / time*	*Laboratory sample ID*	*Compound*	**EA025: Suspended Solids (SS)**				
			LOR Unit	0.5 mg/L				
				EA/ED: Physical and Aggregate Properties				
G3/MF/M/ REPLICATE 2	[18-MAY-2017]	HK1720248-106		**2.5**				
G3/MF/B/ REPLICATE 1	[18-MAY-2017]	HK1720248-107		**2.3**				
G3/MF/B/ REPLICATE 2	[18-MAY-2017]	HK1720248-108		**1.4**				
E1/MF/S/ REPLICATE 1	[18-MAY-2017]	HK1720248-109		**4.2**				
E1/MF/S/ REPLICATE 2	[18-MAY-2017]	HK1720248-110		**2.5**				
E1/MF/M/ REPLICATE 1	[18-MAY-2017]	HK1720248-111		**4.4**				
E1/MF/M/ REPLICATE 2	[18-MAY-2017]	HK1720248-112		**4.8**				
E1/MF/B/ REPLICATE 1	[18-MAY-2017]	HK1720248-113		**2.1**				
E1/MF/B/ REPLICATE 2	[18-MAY-2017]	HK1720248-114		**1.4**				
E2/MF/S/ REPLICATE 1	[18-MAY-2017]	HK1720248-115		**2.3**				
E2/MF/S/ REPLICATE 2	[18-MAY-2017]	HK1720248-116		**3.8**				
E2/MF/M/ REPLICATE 1	[18-MAY-2017]	HK1720248-117		**5.8**				
E2/MF/M/ REPLICATE 2	[18-MAY-2017]	HK1720248-118		**4.0**				
E2/MF/B/ REPLICATE 1	[18-MAY-2017]	HK1720248-119		**2.7**				
E2/MF/B/ REPLICATE 2	[18-MAY-2017]	HK1720248-120		**5.0**				
E3/MF/S/ REPLICATE 1	[18-MAY-2017]	HK1720248-121		**5.3**				
E3/MF/S/ REPLICATE 2	[18-MAY-2017]	HK1720248-122		**6.0**				
E3/MF/M/ REPLICATE 1	[18-MAY-2017]	HK1720248-123		**2.3**				
E3/MF/M/ REPLICATE 2	[18-MAY-2017]	HK1720248-124		**1.1**				
E3/MF/B/ REPLICATE 1	[18-MAY-2017]	HK1720248-125		**0.7**				
E3/MF/B/ REPLICATE 2	[18-MAY-2017]	HK1720248-126		**0.7**				
G1/MF/S/ REPLICATE 1	[18-MAY-2017]	HK1720248-127		**6.9**				
G1/MF/S/ REPLICATE 2	[18-MAY-2017]	HK1720248-128		**7.6**				
G1/MF/M/ REPLICATE 1	[18-MAY-2017]	HK1720248-129		**2.0**				
G1/MF/M/ REPLICATE 2	[18-MAY-2017]	HK1720248-130		**1.1**				
G1/MF/B/ REPLICATE 1	[18-MAY-2017]	HK1720248-131		**5.1**				
G1/MF/B/ REPLICATE 2	[18-MAY-2017]	HK1720248-132		**4.1**				
G2/MF/S/ REPLICATE 1	[18-MAY-2017]	HK1720248-133		**6.5**				
G2/MF/S/ REPLICATE 2	[18-MAY-2017]	HK1720248-134		**8.3**				
G2/MF/M/ REPLICATE 1	[18-MAY-2017]	HK1720248-135		**2.1**				
G2/MF/M/ REPLICATE 2	[18-MAY-2017]	HK1720248-136		**4.4**				
G2/MF/B/ REPLICATE 1	[18-MAY-2017]	HK1720248-137		**6.4**				
G2/MF/B/ REPLICATE 2	[18-MAY-2017]	HK1720248-138		**6.6**				
E5/MF/S/ REPLICATE 1	[18-MAY-2017]	HK1720248-139		**5.2**				
E5/MF/S/ REPLICATE 2	[18-MAY-2017]	HK1720248-140		**3.8**				

Sub-Matrix: **WATER**

Client sample ID	*Client sampling date / time*	*Laboratory sample ID*	*Compound*	**EA025: Suspended Solids (SS)**				
			LOR Unit	0.5 mg/L				
				EA/ED: Physical and Aggregate Properties				
E5/MF/M/ REPLICATE 1	[18-MAY-2017]	HK1720248-141		**6.6**				
E5/MF/M/ REPLICATE 2	[18-MAY-2017]	HK1720248-142		**5.6**				
E5/MF/B/ REPLICATE 1	[18-MAY-2017]	HK1720248-143		**4.7**				
E5/MF/B/ REPLICATE 2	[18-MAY-2017]	HK1720248-144		**6.3**				
E4/MF/S/ REPLICATE 1	[18-MAY-2017]	HK1720248-145		**6.8**				
E4/MF/S/ REPLICATE 2	[18-MAY-2017]	HK1720248-146		**7.2**				
E4/MF/M/ REPLICATE 1	[18-MAY-2017]	HK1720248-147		**2.4**				
E4/MF/M/ REPLICATE 2	[18-MAY-2017]	HK1720248-148		**3.1**				
E4/MF/B/ REPLICATE 1	[18-MAY-2017]	HK1720248-149		**6.3**				
E4/MF/B/ REPLICATE 2	[18-MAY-2017]	HK1720248-150		**4.9**				
G5/MF/S/ REPLICATE 1	[18-MAY-2017]	HK1720248-151		**5.2**				
G5/MF/S/ REPLICATE 2	[18-MAY-2017]	HK1720248-152		**7.2**				
G5/MF/M/ REPLICATE 1	[18-MAY-2017]	HK1720248-153		**8.4**				
G5/MF/M/ REPLICATE 2	[18-MAY-2017]	HK1720248-154		**6.5**				
G5/MF/B/ REPLICATE 1	[18-MAY-2017]	HK1720248-155		**11.2**				
G5/MF/B/ REPLICATE 2	[18-MAY-2017]	HK1720248-156		**8.8**				
G4/MF/S/ REPLICATE 1	[18-MAY-2017]	HK1720248-157		**7.3**				
G4/MF/S/ REPLICATE 2	[18-MAY-2017]	HK1720248-158		**5.2**				
G4/MF/M/ REPLICATE 1	[18-MAY-2017]	HK1720248-159		**3.3**				
G4/MF/M/ REPLICATE 2	[18-MAY-2017]	HK1720248-160		**4.7**				
G4/MF/B/ REPLICATE 1	[18-MAY-2017]	HK1720248-161		**4.6**				
G4/MF/B/ REPLICATE 2	[18-MAY-2017]	HK1720248-162		**6.5**				
E7/MF/S/ REPLICATE 1	[18-MAY-2017]	HK1720248-163		**3.0**				
E7/MF/S/ REPLICATE 2	[18-MAY-2017]	HK1720248-164		**5.3**				
E7/MF/M/ REPLICATE 1	[18-MAY-2017]	HK1720248-165		**1.2**				
E7/MF/M/ REPLICATE 2	[18-MAY-2017]	HK1720248-166		**2.7**				
E7/MF/B/ REPLICATE 1	[18-MAY-2017]	HK1720248-167		**8.4**				
E7/MF/B/ REPLICATE 2	[18-MAY-2017]	HK1720248-168		**6.7**				
E6/MF/S/ REPLICATE 1	[18-MAY-2017]	HK1720248-169		**6.0**				
E6/MF/S/ REPLICATE 2	[18-MAY-2017]	HK1720248-170		**3.7**				
E6/MF/M/ REPLICATE 1	[18-MAY-2017]	HK1720248-171		**1.8**				
E6/MF/M/ REPLICATE 2	[18-MAY-2017]	HK1720248-172		**2.4**				
E6/MF/B/ REPLICATE 1	[18-MAY-2017]	HK1720248-173		**3.0**				
E6/MF/B/ REPLICATE 2	[18-MAY-2017]	HK1720248-174		**5.3**				
C1/MF/S/ REPLICATE 1	[18-MAY-2017]	HK1720248-175		**4.1**				

Sub-Matrix: **WATER**

Client sample ID	*Client sampling date / time*	*Laboratory sample ID*	*Compound*	**EA025: Suspended Solids (SS)**				
			LOR Unit	0.5 mg/L				
				EA/ED: Physical and Aggregate Properties				
C1/MF/S/ REPLICATE 2	[18-MAY-2017]	HK1720248-176		**6.3**				
C1/MF/M/ REPLICATE 1	[18-MAY-2017]	HK1720248-177		**5.6**				
C1/MF/M/ REPLICATE 2	[18-MAY-2017]	HK1720248-178		**6.9**				
C1/MF/B/ REPLICATE 1	[18-MAY-2017]	HK1720248-179		**5.4**				
C1/MF/B/ REPLICATE 2	[18-MAY-2017]	HK1720248-180		**3.4**				

Laboratory Duplicate (DUP) Report

Matrix: **WATER**

Laboratory sample ID	Client 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: 4484798)								
HK1720248-001	L1/ME/S/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	6.7	7.2	7.2
HK1720248-011	B1/ME/B/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	6.7	7.2	6.5
EA/ED: Physical and Aggregate Properties (QC Lot: 4484799)								
HK1720248-021	E1/ME/M/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	2.3	3.3	37.5
HK1720248-031	E3/ME/S/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	2.0	1.8	10.4
EA/ED: Physical and Aggregate Properties (QC Lot: 4484800)								
HK1720248-041	G1/ME/B/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	2.5	3.4	28.8
HK1720248-051	E5/ME/M/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	2.0	2.8	34.9
EA/ED: Physical and Aggregate Properties (QC Lot: 4484801)								
HK1720248-061	G5/ME/S/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	6.9	7.9	13.2
HK1720248-071	G4/ME/B/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	2.2	1.7	23.4
EA/ED: Physical and Aggregate Properties (QC Lot: 4484802)								
HK1720248-081	E6/ME/M/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	1.4	1.2	15.7
HK1720248-091	L1/MF/S/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	2.2	2.2	0.0
EA/ED: Physical and Aggregate Properties (QC Lot: 4484803)								
HK1720248-101	B1/MF/B/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	4.7	3.7	24.5
HK1720248-111	E1/MF/M/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	4.4	5.2	15.1
EA/ED: Physical and Aggregate Properties (QC Lot: 4484804)								
HK1720248-121	E3/MF/S/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	5.3	6.2	15.2
HK1720248-131	G1/MF/B/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	5.1	4.2	18.3
EA/ED: Physical and Aggregate Properties (QC Lot: 4484805)								
HK1720248-141	E5/MF/M/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	6.6	7.4	11.8
HK1720248-152	G5/MF/S/ REPLICATE 2	EA025: Suspended Solids (SS)	----	0.5	mg/L	7.2	7.3	0.0
EA/ED: Physical and Aggregate Properties (QC Lot: 4484806)								
HK1720248-161	G4/MF/B/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	4.6	4.4	2.2
HK1720248-171	E6/MF/M/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	1.8	2.2	21.4

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: 4484798)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20.0 mg/L	106	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 4484799)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20.0 mg/L	109	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 4484800)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20.0 mg/L	101	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 4484801)											

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: 4484801) - continued											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20.0 mg/L	98.5	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 4484802)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20.0 mg/L	96.5	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 4484803)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20.0 mg/L	108	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 4484804)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20.0 mg/L	112	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 4484805)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20.0 mg/L	106	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 4484806)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20.0 mg/L	108	----	85	115	----	----

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	:	**AECOM ASIA COMPANY LIMITED**	*Laboratory*	:	**ALS Technichem (HK) Pty Ltd**	*Page*	: **1 of 10**
Contact	:	**MR Y W FUNG**	*Contact*	:	**Fung Lim Chee, Richard**	*Work Order*	: **HK1720685**
Address	:	**1501-10, 15/F, TOWER 1, GRAND CENTRAL PLAZA, 138 SHATIN RURAL COMMITTEE ROAD, SHATIN NEW TERRITORIES, HONG KONG**	*Address*	:	**11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong**		
E-mail	:	**yw.fung@aecom.com**	*E-mail*	:	**Richard.Fung@alsglobal.com**		
Telephone	:	**+852 3105 8544**	*Telephone*	:	**+852 2610 1044**		
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Project	:	**WATER QUALITY MONITORING FOR ASIA-AFRICA-EUROPE-1 CABLE SYSTEM (AAE-1) AT CAPE D AGUILAR HONG KONG**	*Quote number*	:	**----**	*Date received*	: **20-MAY-2017**
Order number	:	**----**				*Date of issue*	: **02-JUN-2017**
C-O-C number	:	**----**				*No. of samples*	- *Received* : **180**
Site	:	**----**					- *Analysed* : **180**

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	**General Manager**	**Inorganics**

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK1720685 supersedes any previous reports with this reference. Testing period is from 20-MAY-2017 to 01-JUN-2017. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for process purposes. Abbreviations: CAS number = Chemical Abstract Services number. LOR = Limit of reporting.

Specific Comments for Work Order HK1720685 :

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.
Sample(s) were picked up from client by ALS Technichem (HK) staff in chilled condition.
Water sample(s) analysed and reported on an as received basis.

Analytical Results

Sub-Matrix: **WATER**

Client sample ID	Client sampling date / time	Laboratory sample ID	Compound	EA025: Suspended Solids (SS)				
			LOR Unit	0.5 mg/L				
				EA/ED: Physical and Aggregate Properties				
L1/ME/S/ REPLICATE 1	[20-MAY-2017]	HK1720685-001		**1.9**				
L1/ME/S/ REPLICATE 2	[20-MAY-2017]	HK1720685-002		**1.1**				
L1/ME/M/ REPLICATE 1	[20-MAY-2017]	HK1720685-003		**0.9**				
L1/ME/M/ REPLICATE 2	[20-MAY-2017]	HK1720685-004		**1.0**				
L1/ME/B/ REPLICATE 1	[20-MAY-2017]	HK1720685-005		**1.3**				
L1/ME/B/ REPLICATE 2	[20-MAY-2017]	HK1720685-006		**2.2**				
B1/ME/S/ REPLICATE 1	[20-MAY-2017]	HK1720685-007		**1.6**				
B1/ME/S/ REPLICATE 2	[20-MAY-2017]	HK1720685-008		**0.9**				
B1/ME/M/ REPLICATE 1	[20-MAY-2017]	HK1720685-009		**2.9**				
B1/ME/M/ REPLICATE 2	[20-MAY-2017]	HK1720685-010		**2.0**				
B1/ME/B/ REPLICATE 1	[20-MAY-2017]	HK1720685-011		**3.0**				
B1/ME/B/ REPLICATE 2	[20-MAY-2017]	HK1720685-012		**3.9**				
G3/ME/S/ REPLICATE 1	[20-MAY-2017]	HK1720685-013		**4.2**				
G3/ME/S/ REPLICATE 2	[20-MAY-2017]	HK1720685-014		**4.2**				
G3/ME/M/ REPLICATE 1	[20-MAY-2017]	HK1720685-015		**1.9**				
G3/ME/M/ REPLICATE 2	[20-MAY-2017]	HK1720685-016		**3.0**				
G3/ME/B/ REPLICATE 1	[20-MAY-2017]	HK1720685-017		**2.4**				
G3/ME/B/ REPLICATE 2	[20-MAY-2017]	HK1720685-018		**3.4**				
E1/ME/S/ REPLICATE 1	[20-MAY-2017]	HK1720685-019		**3.6**				
E1/ME/S/ REPLICATE 2	[20-MAY-2017]	HK1720685-020		**4.1**				
E1/ME/M/ REPLICATE 1	[20-MAY-2017]	HK1720685-021		**3.6**				
E1/ME/M/ REPLICATE 2	[20-MAY-2017]	HK1720685-022		**3.3**				
E1/ME/B/ REPLICATE 1	[20-MAY-2017]	HK1720685-023		**2.3**				
E1/ME/B/ REPLICATE 2	[20-MAY-2017]	HK1720685-024		**3.5**				
E2/ME/S/ REPLICATE 1	[20-MAY-2017]	HK1720685-025		**2.2**				
E2/ME/S/ REPLICATE 2	[20-MAY-2017]	HK1720685-026		**3.8**				
E2/ME/M/ REPLICATE 1	[20-MAY-2017]	HK1720685-027		**2.8**				
E2/ME/M/ REPLICATE 2	[20-MAY-2017]	HK1720685-028		**1.8**				
E2/ME/B/ REPLICATE 1	[20-MAY-2017]	HK1720685-029		**2.4**				
E2/ME/B/ REPLICATE 2	[20-MAY-2017]	HK1720685-030		**4.5**				
E3/ME/S/ REPLICATE 1	[20-MAY-2017]	HK1720685-031		**3.0**				
E3/ME/S/ REPLICATE 2	[20-MAY-2017]	HK1720685-032		**5.3**				
E3/ME/M/ REPLICATE 1	[20-MAY-2017]	HK1720685-033		**5.7**				
E3/ME/M/ REPLICATE 2	[20-MAY-2017]	HK1720685-034		**3.5**				
E3/ME/B/ REPLICATE 1	[20-MAY-2017]	HK1720685-035		**7.0**				

Sub-Matrix: **WATER**

Client sample ID	*Client sampling date / time*	*Laboratory sample ID*	*Compound*	**EA025: Suspended Solids (SS)**				
			LOR Unit	0.5 mg/L				
				EA/ED: Physical and Aggregate Properties				
E3/ME/B/ REPLICATE 2	[20-MAY-2017]	HK1720685-036		**4.8**				
G1/ME/S/ REPLICATE 1	[20-MAY-2017]	HK1720685-037		**3.3**				
G1/ME/S/ REPLICATE 2	[20-MAY-2017]	HK1720685-038		**5.3**				
G1/ME/M/ REPLICATE 1	[20-MAY-2017]	HK1720685-039		**4.7**				
G1/ME/M/ REPLICATE 2	[20-MAY-2017]	HK1720685-040		**7.3**				
G1/ME/B/ REPLICATE 1	[20-MAY-2017]	HK1720685-041		**3.1**				
G1/ME/B/ REPLICATE 2	[20-MAY-2017]	HK1720685-042		**2.6**				
G2/ME/S/ REPLICATE 1	[20-MAY-2017]	HK1720685-043		**2.0**				
G2/ME/S/ REPLICATE 2	[20-MAY-2017]	HK1720685-044		**3.9**				
G2/ME/M/ REPLICATE 1	[20-MAY-2017]	HK1720685-045		**3.6**				
G2/ME/M/ REPLICATE 2	[20-MAY-2017]	HK1720685-046		**6.3**				
G2/ME/B/ REPLICATE 1	[20-MAY-2017]	HK1720685-047		**2.3**				
G2/ME/B/ REPLICATE 2	[20-MAY-2017]	HK1720685-048		**2.1**				
E5/ME/S/ REPLICATE 1	[20-MAY-2017]	HK1720685-049		**0.6**				
E5/ME/S/ REPLICATE 2	[20-MAY-2017]	HK1720685-050		**1.4**				
E5/ME/M/ REPLICATE 1	[20-MAY-2017]	HK1720685-051		**2.7**				
E5/ME/M/ REPLICATE 2	[20-MAY-2017]	HK1720685-052		**1.5**				
E5/ME/B/ REPLICATE 1	[20-MAY-2017]	HK1720685-053		**1.9**				
E5/ME/B/ REPLICATE 2	[20-MAY-2017]	HK1720685-054		**1.0**				
E4/ME/S/ REPLICATE 1	[20-MAY-2017]	HK1720685-055		**3.6**				
E4/ME/S/ REPLICATE 2	[20-MAY-2017]	HK1720685-056		**2.1**				
E4/ME/M/ REPLICATE 1	[20-MAY-2017]	HK1720685-057		**3.4**				
E4/ME/M/ REPLICATE 2	[20-MAY-2017]	HK1720685-058		**2.1**				
E4/ME/B/ REPLICATE 1	[20-MAY-2017]	HK1720685-059		**4.1**				
E4/ME/B/ REPLICATE 2	[20-MAY-2017]	HK1720685-060		**5.4**				
G5/ME/S/ REPLICATE 1	[20-MAY-2017]	HK1720685-061		**5.2**				
G5/ME/S/ REPLICATE 2	[20-MAY-2017]	HK1720685-062		**3.9**				
G5/ME/M/ REPLICATE 1	[20-MAY-2017]	HK1720685-063		**4.2**				
G5/ME/M/ REPLICATE 2	[20-MAY-2017]	HK1720685-064		**2.5**				
G5/ME/B/ REPLICATE 1	[20-MAY-2017]	HK1720685-065		**2.1**				
G5/ME/B/ REPLICATE 2	[20-MAY-2017]	HK1720685-066		**3.9**				
G4/ME/S/ REPLICATE 1	[20-MAY-2017]	HK1720685-067		**5.9**				
G4/ME/S/ REPLICATE 2	[20-MAY-2017]	HK1720685-068		**4.6**				
G4/ME/M/ REPLICATE 1	[20-MAY-2017]	HK1720685-069		**1.6**				
G4/ME/M/ REPLICATE 2	[20-MAY-2017]	HK1720685-070		**1.4**				

Sub-Matrix: **WATER**

Client sample ID	Client sampling date / time	Laboratory sample ID	Compound	EA025: Suspended Solids (SS)				
			LOR Unit	0.5 mg/L				
				EA/ED: Physical and Aggregate Properties				
G4/ME/B/ REPLICATE 1	[20-MAY-2017]	HK1720685-071		**1.1**				
G4/ME/B/ REPLICATE 2	[20-MAY-2017]	HK1720685-072		**1.2**				
E7/ME/S/ REPLICATE 1	[20-MAY-2017]	HK1720685-073		**2.7**				
E7/ME/S/ REPLICATE 2	[20-MAY-2017]	HK1720685-074		**4.3**				
E7/ME/M/ REPLICATE 1	[20-MAY-2017]	HK1720685-075		**2.1**				
E7/ME/M/ REPLICATE 2	[20-MAY-2017]	HK1720685-076		**3.4**				
E7/ME/B/ REPLICATE 1	[20-MAY-2017]	HK1720685-077		**2.0**				
E7/ME/B/ REPLICATE 2	[20-MAY-2017]	HK1720685-078		**3.8**				
E6/ME/S/ REPLICATE 1	[20-MAY-2017]	HK1720685-079		**4.6**				
E6/ME/S/ REPLICATE 2	[20-MAY-2017]	HK1720685-080		**5.5**				
E6/ME/M/ REPLICATE 1	[20-MAY-2017]	HK1720685-081		**3.0**				
E6/ME/M/ REPLICATE 2	[20-MAY-2017]	HK1720685-082		**3.9**				
E6/ME/B/ REPLICATE 1	[20-MAY-2017]	HK1720685-083		**4.2**				
E6/ME/B/ REPLICATE 2	[20-MAY-2017]	HK1720685-084		**3.2**				
C1/ME/S/ REPLICATE 1	[20-MAY-2017]	HK1720685-085		**5.0**				
C1/ME/S/ REPLICATE 2	[20-MAY-2017]	HK1720685-086		**5.6**				
C1/ME/M/ REPLICATE 1	[20-MAY-2017]	HK1720685-087		**4.7**				
C1/ME/M/ REPLICATE 2	[20-MAY-2017]	HK1720685-088		**2.9**				
C1/ME/B/ REPLICATE 1	[20-MAY-2017]	HK1720685-089		**7.3**				
C1/ME/B/ REPLICATE 2	[20-MAY-2017]	HK1720685-090		**5.5**				
L1/MF/S/ REPLICATE 1	[20-MAY-2017]	HK1720685-091		**3.0**				
L1/MF/S/ REPLICATE 2	[20-MAY-2017]	HK1720685-092		**3.3**				
L1/MF/M/ REPLICATE 1	[20-MAY-2017]	HK1720685-093		**3.2**				
L1/MF/M/ REPLICATE 2	[20-MAY-2017]	HK1720685-094		**3.6**				
L1/MF/B/ REPLICATE 1	[20-MAY-2017]	HK1720685-095		**5.5**				
L1/MF/B/ REPLICATE 2	[20-MAY-2017]	HK1720685-096		**7.2**				
B1/MF/S/ REPLICATE 1	[20-MAY-2017]	HK1720685-097		**4.6**				
B1/MF/S/ REPLICATE 2	[20-MAY-2017]	HK1720685-098		**6.6**				
B1/MF/M/ REPLICATE 1	[20-MAY-2017]	HK1720685-099		**4.3**				
B1/MF/M/ REPLICATE 2	[20-MAY-2017]	HK1720685-100		**3.9**				
B1/MF/B/ REPLICATE 1	[20-MAY-2017]	HK1720685-101		**2.4**				
B1/MF/B/ REPLICATE 2	[20-MAY-2017]	HK1720685-102		**1.3**				
G3/MF/S/ REPLICATE 1	[20-MAY-2017]	HK1720685-103		**1.7**				
G3/MF/S/ REPLICATE 2	[20-MAY-2017]	HK1720685-104		**2.0**				
G3/MF/M/ REPLICATE 1	[20-MAY-2017]	HK1720685-105		**4.1**				

Sub-Matrix: **WATER**

Client sample ID	*Client sampling date / time*	*Laboratory sample ID*	*Compound*	**EA025: Suspended Solids (SS)**				
			LOR Unit	0.5 mg/L				
				EA/ED: Physical and Aggregate Properties				
G3/MF/M/ REPLICATE 2	[20-MAY-2017]	HK1720685-106		**2.9**				
G3/MF/B/ REPLICATE 1	[20-MAY-2017]	HK1720685-107		**4.0**				
G3/MF/B/ REPLICATE 2	[20-MAY-2017]	HK1720685-108		**2.6**				
E1/MF/S/ REPLICATE 1	[20-MAY-2017]	HK1720685-109		**2.9**				
E1/MF/S/ REPLICATE 2	[20-MAY-2017]	HK1720685-110		**1.8**				
E1/MF/M/ REPLICATE 1	[20-MAY-2017]	HK1720685-111		**2.2**				
E1/MF/M/ REPLICATE 2	[20-MAY-2017]	HK1720685-112		**4.4**				
E1/MF/B/ REPLICATE 1	[20-MAY-2017]	HK1720685-113		**2.5**				
E1/MF/B/ REPLICATE 2	[20-MAY-2017]	HK1720685-114		**4.3**				
E2/MF/S/ REPLICATE 1	[20-MAY-2017]	HK1720685-115		**4.2**				
E2/MF/S/ REPLICATE 2	[20-MAY-2017]	HK1720685-116		**3.9**				
E2/MF/M/ REPLICATE 1	[20-MAY-2017]	HK1720685-117		**4.5**				
E2/MF/M/ REPLICATE 2	[20-MAY-2017]	HK1720685-118		**2.6**				
E2/MF/B/ REPLICATE 1	[20-MAY-2017]	HK1720685-119		**2.9**				
E2/MF/B/ REPLICATE 2	[20-MAY-2017]	HK1720685-120		**2.3**				
E3/MF/S/ REPLICATE 1	[20-MAY-2017]	HK1720685-121		**1.9**				
E3/MF/S/ REPLICATE 2	[20-MAY-2017]	HK1720685-122		**1.3**				
E3/MF/M/ REPLICATE 1	[20-MAY-2017]	HK1720685-123		**2.0**				
E3/MF/M/ REPLICATE 2	[20-MAY-2017]	HK1720685-124		**1.1**				
E3/MF/B/ REPLICATE 1	[20-MAY-2017]	HK1720685-125		**2.8**				
E3/MF/B/ REPLICATE 2	[20-MAY-2017]	HK1720685-126		**2.6**				
G1/MF/S/ REPLICATE 1	[20-MAY-2017]	HK1720685-127		**5.1**				
G1/MF/S/ REPLICATE 2	[20-MAY-2017]	HK1720685-128		**4.6**				
G1/MF/M/ REPLICATE 1	[20-MAY-2017]	HK1720685-129		**6.5**				
G1/MF/M/ REPLICATE 2	[20-MAY-2017]	HK1720685-130		**3.6**				
G1/MF/B/ REPLICATE 1	[20-MAY-2017]	HK1720685-131		**1.2**				
G1/MF/B/ REPLICATE 2	[20-MAY-2017]	HK1720685-132		**0.6**				
G2/MF/S/ REPLICATE 1	[20-MAY-2017]	HK1720685-133		**2.0**				
G2/MF/S/ REPLICATE 2	[20-MAY-2017]	HK1720685-134		**0.9**				
G2/MF/M/ REPLICATE 1	[20-MAY-2017]	HK1720685-135		**1.9**				
G2/MF/M/ REPLICATE 2	[20-MAY-2017]	HK1720685-136		**1.0**				
G2/MF/B/ REPLICATE 1	[20-MAY-2017]	HK1720685-137		**0.9**				
G2/MF/B/ REPLICATE 2	[20-MAY-2017]	HK1720685-138		**0.7**				
E5/MF/S/ REPLICATE 1	[20-MAY-2017]	HK1720685-139		**3.1**				
E5/MF/S/ REPLICATE 2	[20-MAY-2017]	HK1720685-140		**1.1**				

Sub-Matrix: **WATER**

Client sample ID	*Client sampling date / time*	*Laboratory sample ID*	*Compound*	**EA025: Suspended Solids (SS)**				
			LOR Unit	0.5 mg/L				
				EA/ED: Physical and Aggregate Properties				
E5/MF/M/ REPLICATE 1	[20-MAY-2017]	HK1720685-141		**2.8**				
E5/MF/M/ REPLICATE 2	[20-MAY-2017]	HK1720685-142		**3.5**				
E5/MF/B/ REPLICATE 1	[20-MAY-2017]	HK1720685-143		**1.8**				
E5/MF/B/ REPLICATE 2	[20-MAY-2017]	HK1720685-144		**3.4**				
E4/MF/S/ REPLICATE 1	[20-MAY-2017]	HK1720685-145		**2.8**				
E4/MF/S/ REPLICATE 2	[20-MAY-2017]	HK1720685-146		**2.1**				
E4/MF/M/ REPLICATE 1	[20-MAY-2017]	HK1720685-147		**4.3**				
E4/MF/M/ REPLICATE 2	[20-MAY-2017]	HK1720685-148		**3.5**				
E4/MF/B/ REPLICATE 1	[20-MAY-2017]	HK1720685-149		**2.9**				
E4/MF/B/ REPLICATE 2	[20-MAY-2017]	HK1720685-150		**1.9**				
G5/MF/S/ REPLICATE 1	[20-MAY-2017]	HK1720685-151		**1.1**				
G5/MF/S/ REPLICATE 2	[20-MAY-2017]	HK1720685-152		**2.4**				
G5/MF/M/ REPLICATE 1	[20-MAY-2017]	HK1720685-153		**2.7**				
G5/MF/M/ REPLICATE 2	[20-MAY-2017]	HK1720685-154		**4.5**				
G5/MF/B/ REPLICATE 1	[20-MAY-2017]	HK1720685-155		**3.0**				
G5/MF/B/ REPLICATE 2	[20-MAY-2017]	HK1720685-156		**4.9**				
G4/MF/S/ REPLICATE 1	[20-MAY-2017]	HK1720685-157		**1.6**				
G4/MF/S/ REPLICATE 2	[20-MAY-2017]	HK1720685-158		**2.8**				
G4/MF/M/ REPLICATE 1	[20-MAY-2017]	HK1720685-159		**2.2**				
G4/MF/M/ REPLICATE 2	[20-MAY-2017]	HK1720685-160		**4.3**				
G4/MF/B/ REPLICATE 1	[20-MAY-2017]	HK1720685-161		**3.0**				
G4/MF/B/ REPLICATE 2	[20-MAY-2017]	HK1720685-162		**5.2**				
E7/MF/S/ REPLICATE 1	[20-MAY-2017]	HK1720685-163		**4.1**				
E7/MF/S/ REPLICATE 2	[20-MAY-2017]	HK1720685-164		**3.0**				
E7/MF/M/ REPLICATE 1	[20-MAY-2017]	HK1720685-165		**3.5**				
E7/MF/M/ REPLICATE 2	[20-MAY-2017]	HK1720685-166		**4.6**				
E7/MF/B/ REPLICATE 1	[20-MAY-2017]	HK1720685-167		**1.5**				
E7/MF/B/ REPLICATE 2	[20-MAY-2017]	HK1720685-168		**2.9**				
E6/MF/S/ REPLICATE 1	[20-MAY-2017]	HK1720685-169		**2.0**				
E6/MF/S/ REPLICATE 2	[20-MAY-2017]	HK1720685-170		**0.9**				
E6/MF/M/ REPLICATE 1	[20-MAY-2017]	HK1720685-171		**1.7**				
E6/MF/M/ REPLICATE 2	[20-MAY-2017]	HK1720685-172		**2.2**				
E6/MF/B/ REPLICATE 1	[20-MAY-2017]	HK1720685-173		**1.2**				
E6/MF/B/ REPLICATE 2	[20-MAY-2017]	HK1720685-174		**3.0**				
C1/MF/S/ REPLICATE 1	[20-MAY-2017]	HK1720685-175		**3.8**				

Sub-Matrix: **WATER**

Client sample ID	*Client sampling date / time*	*Laboratory sample ID*	*Compound*	**EA025: Suspended Solids (SS)**				
			LOR Unit	0.5 mg/L				
				EA/ED: Physical and Aggregate Properties				
C1/MF/S/ REPLICATE 2	[20-MAY-2017]	HK1720685-176		**4.1**				
C1/MF/M/ REPLICATE 1	[20-MAY-2017]	HK1720685-177		**5.4**				
C1/MF/M/ REPLICATE 2	[20-MAY-2017]	HK1720685-178		**3.3**				
C1/MF/B/ REPLICATE 1	[20-MAY-2017]	HK1720685-179		**0.7**				
C1/MF/B/ REPLICATE 2	[20-MAY-2017]	HK1720685-180		**1.4**				

Laboratory Duplicate (DUP) Report

Matrix: **WATER**

Laboratory sample ID	Client 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: 4485863)								
HK1720685-001	L1/ME/S/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	1.9	2.0	8.9
HK1720685-011	B1/ME/B/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	3.0	2.0	37.2
EA/ED: Physical and Aggregate Properties (QC Lot: 4485864)								
HK1720685-021	E1/ME/M/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	3.6	3.0	20.4
HK1720685-032	E3/ME/S/ REPLICATE 2	EA025: Suspended Solids (SS)	----	0.5	mg/L	5.3	4.3	21.9
EA/ED: Physical and Aggregate Properties (QC Lot: 4485865)								
HK1720685-041	G1/ME/B/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	3.1	2.4	28.3
HK1720685-051	E5/ME/M/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	2.7	3.4	24.4
EA/ED: Physical and Aggregate Properties (QC Lot: 4485866)								
HK1720685-061	G5/ME/S/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	5.2	6.2	17.9
HK1720685-071	G4/ME/B/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	1.1	0.8	27.8
EA/ED: Physical and Aggregate Properties (QC Lot: 4485867)								
HK1720685-081	E6/ME/M/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	3.0	2.2	29.7
HK1720685-091	L1/MF/S/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	3.0	2.0	41.6
EA/ED: Physical and Aggregate Properties (QC Lot: 4485868)								
HK1720685-101	B1/MF/B/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	2.4	1.9	25.6
HK1720685-111	E1/MF/M/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	2.2	1.7	27.8
EA/ED: Physical and Aggregate Properties (QC Lot: 4485869)								
HK1720685-121	E3/MF/S/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	1.9	2.8	40.0
HK1720685-131	G1/MF/B/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	1.2	1.9	43.9
EA/ED: Physical and Aggregate Properties (QC Lot: 4485870)								
HK1720685-142	E5/MF/M/ REPLICATE 2	EA025: Suspended Solids (SS)	----	0.5	mg/L	3.5	2.6	26.9
HK1720685-151	G5/MF/S/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	1.1	1.6	42.2
EA/ED: Physical and Aggregate Properties (QC Lot: 4485871)								
HK1720685-161	G4/MF/B/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	3.0	2.2	32.4
HK1720685-172	E6/MF/M/ REPLICATE 2	EA025: Suspended Solids (SS)	----	0.5	mg/L	2.2	1.5	37.8

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: 4485863)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20.0 mg/L	95.0	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 4485864)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20.0 mg/L	111	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 4485865)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20.0 mg/L	107	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 4485866)											

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: 4485866) - continued											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20.0 mg/L	106	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 4485867)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20.0 mg/L	106	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 4485868)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20.0 mg/L	106	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 4485869)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20.0 mg/L	108	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 4485870)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20.0 mg/L	89.0	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 4485871)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20.0 mg/L	97.0	----	85	115	----	----

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	:	**AECOM ASIA COMPANY LIMITED**	*Laboratory*	:	**ALS Technichem (HK) Pty Ltd**	*Page*	: **1 of 10**
Contact	:	**MR Y W FUNG**	*Contact*	:	**Fung Lim Chee, Richard**	*Work Order*	: **HK1720687**
Address	:	**1501-10, 15/F, TOWER 1, GRAND CENTRAL PLAZA, 138 SHATIN RURAL COMMITTEE ROAD, SHATIN NEW TERRITORIES, HONG KONG**	*Address*	:	**11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong**		
E-mail	:	**yw.fung@aecom.com**	*E-mail*	:	**Richard.Fung@alsglobal.com**		
Telephone	:	**+852 3105 8544**	*Telephone*	:	**+852 2610 1044**		
Facsimile	:	**----**	*Facsimile*	:	**+852 2610 2021**		
Project	:	**WATER QUALITY MONITORING FOR ASIA-AFRICA-EUROPE-1 CABLE SYSTEM (AAE-1) AT CAPE D AGUILAR HONG KONG**	*Quote number*	:	**----**	*Date received*	: **23-MAY-2017**
Order number	:	**----**				*Date of issue*	: **05-JUN-2017**
C-O-C number	:	**----**				*No. of samples*	- *Received* : **180**
Site	:	**----**					- *Analysed* : **180**

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	**General Manager**	**Inorganics**

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK1720687 supersedes any previous reports with this reference. Testing period is from 23-MAY-2017 to 05-JUN-2017. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for process purposes. Abbreviations: CAS number = Chemical Abstract Services number. LOR = Limit of reporting.

Specific Comments for Work Order HK1720687 :

Sample(s) were picked up from client by ALS Technichem (HK) staff in chilled condition.

Water sample(s) analysed and reported on an as received basis.

Analytical Results

Sub-Matrix: **WATER**

Client sample ID	Client sampling date / time	Laboratory sample ID	Compound: EA025: Suspended Solids (SS)				
			LOR Unit: 0.5 mg/L				
			EA/ED: Physical and Aggregate Properties				
L1/ME/S/ REPLICATE 1	[23-MAY-2017]	HK1720687-001	**1.8**				
L1/ME/S/ REPLICATE 2	[23-MAY-2017]	HK1720687-002	**1.5**				
L1/ME/M/ REPLICATE 1	[23-MAY-2017]	HK1720687-003	**1.6**				
L1/ME/M/ REPLICATE 2	[23-MAY-2017]	HK1720687-004	**1.1**				
L1/ME/B/ REPLICATE 1	[23-MAY-2017]	HK1720687-005	<0.5				
L1/ME/B/ REPLICATE 2	[23-MAY-2017]	HK1720687-006	<0.5				
B1/ME/S/ REPLICATE 1	[23-MAY-2017]	HK1720687-007	**1.5**				
B1/ME/S/ REPLICATE 2	[23-MAY-2017]	HK1720687-008	**1.6**				
B1/ME/M/ REPLICATE 1	[23-MAY-2017]	HK1720687-009	**1.5**				
B1/ME/M/ REPLICATE 2	[23-MAY-2017]	HK1720687-010	**1.5**				
B1/ME/B/ REPLICATE 1	[23-MAY-2017]	HK1720687-011	**0.8**				
B1/ME/B/ REPLICATE 2	[23-MAY-2017]	HK1720687-012	**0.8**				
G3/ME/S/ REPLICATE 1	[23-MAY-2017]	HK1720687-013	**1.2**				
G3/ME/S/ REPLICATE 2	[23-MAY-2017]	HK1720687-014	**1.9**				
G3/ME/M/ REPLICATE 1	[23-MAY-2017]	HK1720687-015	**0.8**				
G3/ME/M/ REPLICATE 2	[23-MAY-2017]	HK1720687-016	**1.3**				
G3/ME/B/ REPLICATE 1	[23-MAY-2017]	HK1720687-017	**1.8**				
G3/ME/B/ REPLICATE 2	[23-MAY-2017]	HK1720687-018	**1.3**				
E1/ME/S/ REPLICATE 1	[23-MAY-2017]	HK1720687-019	**1.5**				
E1/ME/S/ REPLICATE 2	[23-MAY-2017]	HK1720687-020	**1.7**				
E1/ME/M/ REPLICATE 1	[23-MAY-2017]	HK1720687-021	**1.9**				
E1/ME/M/ REPLICATE 2	[23-MAY-2017]	HK1720687-022	**1.5**				
E1/ME/B/ REPLICATE 1	[23-MAY-2017]	HK1720687-023	**2.8**				
E1/ME/B/ REPLICATE 2	[23-MAY-2017]	HK1720687-024	**3.6**				
E2/ME/S/ REPLICATE 1	[23-MAY-2017]	HK1720687-025	**0.9**				
E2/ME/S/ REPLICATE 2	[23-MAY-2017]	HK1720687-026	**0.8**				
E2/ME/M/ REPLICATE 1	[23-MAY-2017]	HK1720687-027	**3.9**				
E2/ME/M/ REPLICATE 2	[23-MAY-2017]	HK1720687-028	**2.9**				
E2/ME/B/ REPLICATE 1	[23-MAY-2017]	HK1720687-029	**2.8**				
E2/ME/B/ REPLICATE 2	[23-MAY-2017]	HK1720687-030	**2.1**				
E3/ME/S/ REPLICATE 1	[23-MAY-2017]	HK1720687-031	**2.1**				
E3/ME/S/ REPLICATE 2	[23-MAY-2017]	HK1720687-032	**2.3**				
E3/ME/M/ REPLICATE 1	[23-MAY-2017]	HK1720687-033	**4.1**				
E3/ME/M/ REPLICATE 2	[23-MAY-2017]	HK1720687-034	**4.2**				
E3/ME/B/ REPLICATE 1	[23-MAY-2017]	HK1720687-035	**3.2**				

Sub-Matrix: **WATER**

Client sample ID	*Client sampling date / time*	*Laboratory sample ID*	*Compound*	**EA025: Suspended Solids (SS)**				
			LOR Unit	0.5 mg/L				
				EA/ED: Physical and Aggregate Properties				
E3/ME/B/ REPLICATE 2	[23-MAY-2017]	HK1720687-036		**4.5**				
G1/ME/S/ REPLICATE 1	[23-MAY-2017]	HK1720687-037		**1.1**				
G1/ME/S/ REPLICATE 2	[23-MAY-2017]	HK1720687-038		**1.3**				
G1/ME/M/ REPLICATE 1	[23-MAY-2017]	HK1720687-039		**1.2**				
G1/ME/M/ REPLICATE 2	[23-MAY-2017]	HK1720687-040		**1.6**				
G1/ME/B/ REPLICATE 1	[23-MAY-2017]	HK1720687-041		**1.2**				
G1/ME/B/ REPLICATE 2	[23-MAY-2017]	HK1720687-042		**1.8**				
G2/ME/S/ REPLICATE 1	[23-MAY-2017]	HK1720687-043		**1.3**				
G2/ME/S/ REPLICATE 2	[23-MAY-2017]	HK1720687-044		**1.0**				
G2/ME/M/ REPLICATE 1	[23-MAY-2017]	HK1720687-045		**4.3**				
G2/ME/M/ REPLICATE 2	[23-MAY-2017]	HK1720687-046		**3.0**				
G2/ME/B/ REPLICATE 1	[23-MAY-2017]	HK1720687-047		**3.2**				
G2/ME/B/ REPLICATE 2	[23-MAY-2017]	HK1720687-048		**3.6**				
E5/ME/S/ REPLICATE 1	[23-MAY-2017]	HK1720687-049		**1.4**				
E5/ME/S/ REPLICATE 2	[23-MAY-2017]	HK1720687-050		**1.4**				
E5/ME/M/ REPLICATE 1	[23-MAY-2017]	HK1720687-051		**2.2**				
E5/ME/M/ REPLICATE 2	[23-MAY-2017]	HK1720687-052		**2.6**				
E5/ME/B/ REPLICATE 1	[23-MAY-2017]	HK1720687-053		**2.2**				
E5/ME/B/ REPLICATE 2	[23-MAY-2017]	HK1720687-054		**2.6**				
E4/ME/S/ REPLICATE 1	[23-MAY-2017]	HK1720687-055		**1.7**				
E4/ME/S/ REPLICATE 2	[23-MAY-2017]	HK1720687-056		**1.9**				
E4/ME/M/ REPLICATE 1	[23-MAY-2017]	HK1720687-057		**1.7**				
E4/ME/M/ REPLICATE 2	[23-MAY-2017]	HK1720687-058		**1.5**				
E4/ME/B/ REPLICATE 1	[23-MAY-2017]	HK1720687-059		**1.7**				
E4/ME/B/ REPLICATE 2	[23-MAY-2017]	HK1720687-060		**1.5**				
G5/ME/S/ REPLICATE 1	[23-MAY-2017]	HK1720687-061		**1.5**				
G5/ME/S/ REPLICATE 2	[23-MAY-2017]	HK1720687-062		**1.1**				
G5/ME/M/ REPLICATE 1	[23-MAY-2017]	HK1720687-063		**0.5**				
G5/ME/M/ REPLICATE 2	[23-MAY-2017]	HK1720687-064		<0.5				
G5/ME/B/ REPLICATE 1	[23-MAY-2017]	HK1720687-065		**1.8**				
G5/ME/B/ REPLICATE 2	[23-MAY-2017]	HK1720687-066		**1.3**				
G4/ME/S/ REPLICATE 1	[23-MAY-2017]	HK1720687-067		**0.7**				
G4/ME/S/ REPLICATE 2	[23-MAY-2017]	HK1720687-068		**0.7**				
G4/ME/M/ REPLICATE 1	[23-MAY-2017]	HK1720687-069		**1.6**				
G4/ME/M/ REPLICATE 2	[23-MAY-2017]	HK1720687-070		**1.3**				

Sub-Matrix: **WATER**

Client sample ID	Client sampling date / time	Laboratory sample ID	Compound	EA025: Suspended Solids (SS)				
			LOR Unit	0.5 mg/L				
				EA/ED: Physical and Aggregate Properties				
G4/ME/B/ REPLICATE 1	[23-MAY-2017]	HK1720687-071		**1.2**				
G4/ME/B/ REPLICATE 2	[23-MAY-2017]	HK1720687-072		**1.1**				
E7/ME/S/ REPLICATE 1	[23-MAY-2017]	HK1720687-073		**1.3**				
E7/ME/S/ REPLICATE 2	[23-MAY-2017]	HK1720687-074		**1.3**				
E7/ME/M/ REPLICATE 1	[23-MAY-2017]	HK1720687-075		**0.6**				
E7/ME/M/ REPLICATE 2	[23-MAY-2017]	HK1720687-076		**0.8**				
E7/ME/B/ REPLICATE 1	[23-MAY-2017]	HK1720687-077		**0.8**				
E7/ME/B/ REPLICATE 2	[23-MAY-2017]	HK1720687-078		**1.1**				
E6/ME/S/ REPLICATE 1	[23-MAY-2017]	HK1720687-079		**0.9**				
E6/ME/S/ REPLICATE 2	[23-MAY-2017]	HK1720687-080		**1.4**				
E6/ME/M/ REPLICATE 1	[23-MAY-2017]	HK1720687-081		**1.4**				
E6/ME/M/ REPLICATE 2	[23-MAY-2017]	HK1720687-082		**1.7**				
E6/ME/B/ REPLICATE 1	[23-MAY-2017]	HK1720687-083		**1.0**				
E6/ME/B/ REPLICATE 2	[23-MAY-2017]	HK1720687-084		**1.4**				
C1/ME/S/ REPLICATE 1	[23-MAY-2017]	HK1720687-085		**3.8**				
C1/ME/S/ REPLICATE 2	[23-MAY-2017]	HK1720687-086		**2.2**				
C1/ME/M/ REPLICATE 1	[23-MAY-2017]	HK1720687-087		**3.8**				
C1/ME/M/ REPLICATE 2	[23-MAY-2017]	HK1720687-088		**3.4**				
C1/ME/B/ REPLICATE 1	[23-MAY-2017]	HK1720687-089		**3.3**				
C1/ME/B/ REPLICATE 2	[23-MAY-2017]	HK1720687-090		**3.7**				
L1/MF/S/ REPLICATE 1	[23-MAY-2017]	HK1720687-091		**1.0**				
L1/MF/S/ REPLICATE 2	[23-MAY-2017]	HK1720687-092		**1.3**				
L1/MF/M/ REPLICATE 1	[23-MAY-2017]	HK1720687-093		**3.5**				
L1/MF/M/ REPLICATE 2	[23-MAY-2017]	HK1720687-094		**2.6**				
L1/MF/B/ REPLICATE 1	[23-MAY-2017]	HK1720687-095		**5.3**				
L1/MF/B/ REPLICATE 2	[23-MAY-2017]	HK1720687-096		**4.3**				
B1/MF/S/ REPLICATE 1	[23-MAY-2017]	HK1720687-097		**1.6**				
B1/MF/S/ REPLICATE 2	[23-MAY-2017]	HK1720687-098		**1.3**				
B1/MF/M/ REPLICATE 1	[23-MAY-2017]	HK1720687-099		**1.4**				
B1/MF/M/ REPLICATE 2	[23-MAY-2017]	HK1720687-100		**1.8**				
B1/MF/B/ REPLICATE 1	[23-MAY-2017]	HK1720687-101		**3.3**				
B1/MF/B/ REPLICATE 2	[23-MAY-2017]	HK1720687-102		**3.5**				
G3/MF/S/ REPLICATE 1	[23-MAY-2017]	HK1720687-103		**4.1**				
G3/MF/S/ REPLICATE 2	[23-MAY-2017]	HK1720687-104		**2.5**				
G3/MF/M/ REPLICATE 1	[23-MAY-2017]	HK1720687-105		**2.3**				

Sub-Matrix: **WATER**

Client sample ID	Client sampling date / time	Laboratory sample ID	Compound	EA025: Suspended Solids (SS)				
			LOR Unit	0.5 mg/L				
				EA/ED: Physical and Aggregate Properties				
G3/MF/M/ REPLICATE 2	[23-MAY-2017]	HK1720687-106		**2.1**				
G3/MF/B/ REPLICATE 1	[23-MAY-2017]	HK1720687-107		**3.2**				
G3/MF/B/ REPLICATE 2	[23-MAY-2017]	HK1720687-108		**2.8**				
E1/MF/S/ REPLICATE 1	[23-MAY-2017]	HK1720687-109		**2.3**				
E1/MF/S/ REPLICATE 2	[23-MAY-2017]	HK1720687-110		**3.0**				
E1/MF/M/ REPLICATE 1	[23-MAY-2017]	HK1720687-111		**3.9**				
E1/MF/M/ REPLICATE 2	[23-MAY-2017]	HK1720687-112		**2.1**				
E1/MF/B/ REPLICATE 1	[23-MAY-2017]	HK1720687-113		**4.5**				
E1/MF/B/ REPLICATE 2	[23-MAY-2017]	HK1720687-114		**3.0**				
E2/MF/S/ REPLICATE 1	[23-MAY-2017]	HK1720687-115		**3.8**				
E2/MF/S/ REPLICATE 2	[23-MAY-2017]	HK1720687-116		**2.1**				
E2/MF/M/ REPLICATE 1	[23-MAY-2017]	HK1720687-117		**2.6**				
E2/MF/M/ REPLICATE 2	[23-MAY-2017]	HK1720687-118		**3.9**				
E2/MF/B/ REPLICATE 1	[23-MAY-2017]	HK1720687-119		**3.6**				
E2/MF/B/ REPLICATE 2	[23-MAY-2017]	HK1720687-120		**2.2**				
E3/MF/S/ REPLICATE 1	[23-MAY-2017]	HK1720687-121		**0.9**				
E3/MF/S/ REPLICATE 2	[23-MAY-2017]	HK1720687-122		<0.5				
E3/MF/M/ REPLICATE 1	[23-MAY-2017]	HK1720687-123		**2.6**				
E3/MF/M/ REPLICATE 2	[23-MAY-2017]	HK1720687-124		**3.7**				
E3/MF/B/ REPLICATE 1	[23-MAY-2017]	HK1720687-125		**5.3**				
E3/MF/B/ REPLICATE 2	[23-MAY-2017]	HK1720687-126		**3.9**				
G1/MF/S/ REPLICATE 1	[23-MAY-2017]	HK1720687-127		**2.2**				
G1/MF/S/ REPLICATE 2	[23-MAY-2017]	HK1720687-128		**3.0**				
G1/MF/M/ REPLICATE 1	[23-MAY-2017]	HK1720687-129		**2.3**				
G1/MF/M/ REPLICATE 2	[23-MAY-2017]	HK1720687-130		**2.2**				
G1/MF/B/ REPLICATE 1	[23-MAY-2017]	HK1720687-131		**2.3**				
G1/MF/B/ REPLICATE 2	[23-MAY-2017]	HK1720687-132		**2.1**				
G2/MF/S/ REPLICATE 1	[23-MAY-2017]	HK1720687-133		**3.4**				
G2/MF/S/ REPLICATE 2	[23-MAY-2017]	HK1720687-134		**2.7**				
G2/MF/M/ REPLICATE 1	[23-MAY-2017]	HK1720687-135		**3.1**				
G2/MF/M/ REPLICATE 2	[23-MAY-2017]	HK1720687-136		**4.9**				
G2/MF/B/ REPLICATE 1	[23-MAY-2017]	HK1720687-137		**3.1**				
G2/MF/B/ REPLICATE 2	[23-MAY-2017]	HK1720687-138		**3.1**				
E5/MF/S/ REPLICATE 1	[23-MAY-2017]	HK1720687-139		**3.4**				
E5/MF/S/ REPLICATE 2	[23-MAY-2017]	HK1720687-140		**3.6**				

Sub-Matrix: **WATER**

Client sample ID	Client sampling date / time	Laboratory sample ID	Compound	EA025: Suspended Solids (SS)				
			LOR Unit	0.5 mg/L				
				EA/ED: Physical and Aggregate Properties				
E5/MF/M/ REPLICATE 1	[23-MAY-2017]	HK1720687-141		**2.6**				
E5/MF/M/ REPLICATE 2	[23-MAY-2017]	HK1720687-142		**3.3**				
E5/MF/B/ REPLICATE 1	[23-MAY-2017]	HK1720687-143		**2.8**				
E5/MF/B/ REPLICATE 2	[23-MAY-2017]	HK1720687-144		**2.7**				
E4/MF/S/ REPLICATE 1	[23-MAY-2017]	HK1720687-145		**3.5**				
E4/MF/S/ REPLICATE 2	[23-MAY-2017]	HK1720687-146		**2.0**				
E4/MF/M/ REPLICATE 1	[23-MAY-2017]	HK1720687-147		**4.1**				
E4/MF/M/ REPLICATE 2	[23-MAY-2017]	HK1720687-148		**4.0**				
E4/MF/B/ REPLICATE 1	[23-MAY-2017]	HK1720687-149		**4.0**				
E4/MF/B/ REPLICATE 2	[23-MAY-2017]	HK1720687-150		**5.3**				
G5/MF/S/ REPLICATE 1	[23-MAY-2017]	HK1720687-151		**3.7**				
G5/MF/S/ REPLICATE 2	[23-MAY-2017]	HK1720687-152		**4.2**				
G5/MF/M/ REPLICATE 1	[23-MAY-2017]	HK1720687-153		**3.9**				
G5/MF/M/ REPLICATE 2	[23-MAY-2017]	HK1720687-154		**4.9**				
G5/MF/B/ REPLICATE 1	[23-MAY-2017]	HK1720687-155		**3.6**				
G5/MF/B/ REPLICATE 2	[23-MAY-2017]	HK1720687-156		**4.5**				
G4/MF/S/ REPLICATE 1	[23-MAY-2017]	HK1720687-157		**5.2**				
G4/MF/S/ REPLICATE 2	[23-MAY-2017]	HK1720687-158		**4.8**				
G4/MF/M/ REPLICATE 1	[23-MAY-2017]	HK1720687-159		**5.8**				
G4/MF/M/ REPLICATE 2	[23-MAY-2017]	HK1720687-160		**5.5**				
G4/MF/B/ REPLICATE 1	[23-MAY-2017]	HK1720687-161		**4.6**				
G4/MF/B/ REPLICATE 2	[23-MAY-2017]	HK1720687-162		**6.0**				
E7/MF/S/ REPLICATE 1	[23-MAY-2017]	HK1720687-163		**2.6**				
E7/MF/S/ REPLICATE 2	[23-MAY-2017]	HK1720687-164		**3.3**				
E7/MF/M/ REPLICATE 1	[23-MAY-2017]	HK1720687-165		**3.2**				
E7/MF/M/ REPLICATE 2	[23-MAY-2017]	HK1720687-166		**3.3**				
E7/MF/B/ REPLICATE 1	[23-MAY-2017]	HK1720687-167		**3.4**				
E7/MF/B/ REPLICATE 2	[23-MAY-2017]	HK1720687-168		**4.8**				
E6/MF/S/ REPLICATE 1	[23-MAY-2017]	HK1720687-169		**2.2**				
E6/MF/S/ REPLICATE 2	[23-MAY-2017]	HK1720687-170		**3.9**				
E6/MF/M/ REPLICATE 1	[23-MAY-2017]	HK1720687-171		**3.8**				
E6/MF/M/ REPLICATE 2	[23-MAY-2017]	HK1720687-172		**3.0**				
E6/MF/B/ REPLICATE 1	[23-MAY-2017]	HK1720687-173		**6.9**				
E6/MF/B/ REPLICATE 2	[23-MAY-2017]	HK1720687-174		**5.6**				
C1/MF/S/ REPLICATE 1	[23-MAY-2017]	HK1720687-175		**2.2**				

Sub-Matrix: **WATER**

Client sample ID	*Client sampling date / time*	*Laboratory sample ID*	*Compound*	**EA025: Suspended Solids (SS)**				
			LOR Unit	0.5 mg/L				
				EA/ED: Physical and Aggregate Properties				
C1/MF/S/ REPLICATE 2	[23-MAY-2017]	HK1720687-176		**3.2**				
C1/MF/M/ REPLICATE 1	[23-MAY-2017]	HK1720687-177		**3.4**				
C1/MF/M/ REPLICATE 2	[23-MAY-2017]	HK1720687-178		**3.6**				
C1/MF/B/ REPLICATE 1	[23-MAY-2017]	HK1720687-179		**2.6**				
C1/MF/B/ REPLICATE 2	[23-MAY-2017]	HK1720687-180		**4.0**				

Laboratory Duplicate (DUP) Report

Matrix: **WATER**

Laboratory sample ID	Client 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: 4487722)								
HK1720687-001	L1/ME/S/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	1.8	1.8	0.0
HK1720687-011	B1/ME/B/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	0.8	1.1	35.6
EA/ED: Physical and Aggregate Properties (QC Lot: 4487723)								
HK1720687-021	E1/ME/M/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	1.9	1.8	0.0
HK1720687-031	E3/ME/S/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	2.1	2.3	8.0
EA/ED: Physical and Aggregate Properties (QC Lot: 4487724)								
HK1720687-041	G1/ME/B/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	1.2	1.7	35.9
HK1720687-051	E5/ME/M/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	2.2	2.5	13.8
EA/ED: Physical and Aggregate Properties (QC Lot: 4487725)								
HK1720687-062	G5/ME/S/ REPLICATE 2	EA025: Suspended Solids (SS)	----	0.5	mg/L	1.1	1.6	38.5
HK1720687-072	G4/ME/B/ REPLICATE 2	EA025: Suspended Solids (SS)	----	0.5	mg/L	1.1	1.4	24.5
EA/ED: Physical and Aggregate Properties (QC Lot: 4487726)								
HK1720687-081	E6/ME/M/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	1.4	1.8	24.0
HK1720687-091	L1/MF/S/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	1.0	1.0	0.0
EA/ED: Physical and Aggregate Properties (QC Lot: 4487727)								
HK1720687-101	B1/MF/B/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	3.3	2.1	45.2
HK1720687-111	E1/MF/M/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	3.9	2.8	34.6
EA/ED: Physical and Aggregate Properties (QC Lot: 4487728)								
HK1720687-121	E3/MF/S/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	0.9	0.9	0.0
HK1720687-131	G1/MF/B/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	2.3	2.4	4.2
EA/ED: Physical and Aggregate Properties (QC Lot: 4487729)								
HK1720687-141	E5/MF/M/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	2.6	3.7	34.3
HK1720687-151	G5/MF/S/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	3.7	3.8	4.0
EA/ED: Physical and Aggregate Properties (QC Lot: 4487730)								
HK1720687-162	G4/MF/B/ REPLICATE 2	EA025: Suspended Solids (SS)	----	0.5	mg/L	6.0	5.6	5.6
HK1720687-171	E6/MF/M/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	3.8	4.5	18.2

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: 4487722)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20.0 mg/L	91.5	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 4487723)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20.0 mg/L	108	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 4487724)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20.0 mg/L	106	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 4487725)											

Matrix: **WATER**

		Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
					Spike	Spike Recovery (%)		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: 4487725) - continued											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20.0 mg/L	110	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 4487726)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20.0 mg/L	100	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 4487727)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20.0 mg/L	106	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 4487728)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20.0 mg/L	108	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 4487729)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20.0 mg/L	109	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 4487730)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20.0 mg/L	99.5	----	85	115	----	----

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	:	**AECOM ASIA COMPANY LIMITED**	*Laboratory*	:	**ALS Technichem (HK) Pty Ltd**	*Page*	: **1 of 10**
Contact	:	**MR Y W FUNG**	*Contact*	:	**Fung Lim Chee, Richard**	*Work Order*	: **HK1721098**
Address	:	**1501-10, 15/F, TOWER 1, GRAND CENTRAL PLAZA, 138 SHATIN RURAL COMMITTEE ROAD, SHATIN NEW TERRITORIES, HONG KONG**	*Address*	:	**11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong**		
E-mail	:	**yw.fung@aecom.com**	*E-mail*	:	**Richard.Fung@alsglobal.com**		
Telephone	:	**+852 3105 8544**	*Telephone*	:	**+852 2610 1044**		
Facsimile	:	**----**	*Facsimile*	:	**+852 2610 2021**		
Project	:	**WATER QUALITY MONITORING FOR ASIA-AFRICA-EUROPE-1 CABLE SYSTEM (AAE-1) AT CAPE D AGUILAR HONG KONG**	*Quote number*	:	**----**	*Date received*	: **25-MAY-2017**
Order number	:	**----**				*Date of issue*	: **06-JUN-2017**
C-O-C number	:	**----**				*No. of samples*	- *Received* : **180**
Site	:	**----**					- *Analysed* : **180**

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	**General Manager**	**Inorganics**

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK1721098 supersedes any previous reports with this reference. Testing period is from 25-MAY-2017 to 05-JUN-2017. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for process purposes. Abbreviations: CAS number = Chemical Abstract Services number. LOR = Limit of reporting.

Specific Comments for Work Order HK1721098 :

Sample(s) were picked up from client by ALS Technichem (HK) staff in chilled condition.

Water sample(s) analysed and reported on an as received basis.

Analytical Results

Sub-Matrix: **WATER**

Client sample ID	Client sampling date / time	Laboratory sample ID	Compound	EA025: Suspended Solids (SS)				
			LOR Unit	0.5 mg/L				
				EA/ED: Physical and Aggregate Properties				
L1/ME/S/ REPLICATE 1	[25-MAY-2017]	HK1721098-001		**0.6**				
L1/ME/S/ REPLICATE 2	[25-MAY-2017]	HK1721098-002		<0.5				
L1/ME/M/ REPLICATE 1	[25-MAY-2017]	HK1721098-003		<0.5				
L1/ME/M/ REPLICATE 2	[25-MAY-2017]	HK1721098-004		<0.5				
L1/ME/B/ REPLICATE 1	[25-MAY-2017]	HK1721098-005		<0.5				
L1/ME/B/ REPLICATE 2	[25-MAY-2017]	HK1721098-006		<0.5				
B1/ME/S/ REPLICATE 1	[25-MAY-2017]	HK1721098-007		<0.5				
B1/ME/S/ REPLICATE 2	[25-MAY-2017]	HK1721098-008		<0.5				
B1/ME/M/ REPLICATE 1	[25-MAY-2017]	HK1721098-009		<0.5				
B1/ME/M/ REPLICATE 2	[25-MAY-2017]	HK1721098-010		**0.6**				
B1/ME/B/ REPLICATE 1	[25-MAY-2017]	HK1721098-011		<0.5				
B1/ME/B/ REPLICATE 2	[25-MAY-2017]	HK1721098-012		<0.5				
G3/ME/S/ REPLICATE 1	[25-MAY-2017]	HK1721098-013		<0.5				
G3/ME/S/ REPLICATE 2	[25-MAY-2017]	HK1721098-014		<0.5				
G3/ME/M/ REPLICATE 1	[25-MAY-2017]	HK1721098-015		<0.5				
G3/ME/M/ REPLICATE 2	[25-MAY-2017]	HK1721098-016		<0.5				
G3/ME/B/ REPLICATE 1	[25-MAY-2017]	HK1721098-017		<0.5				
G3/ME/B/ REPLICATE 2	[25-MAY-2017]	HK1721098-018		<0.5				
E1/ME/S/ REPLICATE 1	[25-MAY-2017]	HK1721098-019		<0.5				
E1/ME/S/ REPLICATE 2	[25-MAY-2017]	HK1721098-020		<0.5				
E1/ME/M/ REPLICATE 1	[25-MAY-2017]	HK1721098-021		<0.5				
E1/ME/M/ REPLICATE 2	[25-MAY-2017]	HK1721098-022		<0.5				
E1/ME/B/ REPLICATE 1	[25-MAY-2017]	HK1721098-023		**1.7**				
E1/ME/B/ REPLICATE 2	[25-MAY-2017]	HK1721098-024		**1.4**				
E2/ME/S/ REPLICATE 1	[25-MAY-2017]	HK1721098-025		<0.5				
E2/ME/S/ REPLICATE 2	[25-MAY-2017]	HK1721098-026		<0.5				
E2/ME/M/ REPLICATE 1	[25-MAY-2017]	HK1721098-027		<0.5				
E2/ME/M/ REPLICATE 2	[25-MAY-2017]	HK1721098-028		<0.5				
E2/ME/B/ REPLICATE 1	[25-MAY-2017]	HK1721098-029		<0.5				
E2/ME/B/ REPLICATE 2	[25-MAY-2017]	HK1721098-030		**0.6**				
E3/ME/S/ REPLICATE 1	[25-MAY-2017]	HK1721098-031		<0.5				
E3/ME/S/ REPLICATE 2	[25-MAY-2017]	HK1721098-032		<0.5				
E3/ME/M/ REPLICATE 1	[25-MAY-2017]	HK1721098-033		**1.3**				
E3/ME/M/ REPLICATE 2	[25-MAY-2017]	HK1721098-034		**0.9**				
E3/ME/B/ REPLICATE 1	[25-MAY-2017]	HK1721098-035		<0.5				

Sub-Matrix: **WATER**

Client sample ID	*Client sampling date / time*	*Laboratory sample ID*	*Compound*	**EA025: Suspended Solids (SS)**				
			LOR Unit	0.5 mg/L				
				EA/ED: Physical and Aggregate Properties				
E3/ME/B/ REPLICATE 2	[25-MAY-2017]	HK1721098-036		**0.6**				
G1/ME/S/ REPLICATE 1	[25-MAY-2017]	HK1721098-037		<0.5				
G1/ME/S/ REPLICATE 2	[25-MAY-2017]	HK1721098-038		<0.5				
G1/ME/M/ REPLICATE 1	[25-MAY-2017]	HK1721098-039		**0.9**				
G1/ME/M/ REPLICATE 2	[25-MAY-2017]	HK1721098-040		<0.5				
G1/ME/B/ REPLICATE 1	[25-MAY-2017]	HK1721098-041		**3.2**				
G1/ME/B/ REPLICATE 2	[25-MAY-2017]	HK1721098-042		**2.4**				
G2/ME/S/ REPLICATE 1	[25-MAY-2017]	HK1721098-043		<0.5				
G2/ME/S/ REPLICATE 2	[25-MAY-2017]	HK1721098-044		<0.5				
G2/ME/M/ REPLICATE 1	[25-MAY-2017]	HK1721098-045		**0.7**				
G2/ME/M/ REPLICATE 2	[25-MAY-2017]	HK1721098-046		**1.1**				
G2/ME/B/ REPLICATE 1	[25-MAY-2017]	HK1721098-047		**2.2**				
G2/ME/B/ REPLICATE 2	[25-MAY-2017]	HK1721098-048		**3.0**				
E5/ME/S/ REPLICATE 1	[25-MAY-2017]	HK1721098-049		**0.5**				
E5/ME/S/ REPLICATE 2	[25-MAY-2017]	HK1721098-050		<0.5				
E5/ME/M/ REPLICATE 1	[25-MAY-2017]	HK1721098-051		<0.5				
E5/ME/M/ REPLICATE 2	[25-MAY-2017]	HK1721098-052		<0.5				
E5/ME/B/ REPLICATE 1	[25-MAY-2017]	HK1721098-053		<0.5				
E5/ME/B/ REPLICATE 2	[25-MAY-2017]	HK1721098-054		<0.5				
E4/ME/S/ REPLICATE 1	[25-MAY-2017]	HK1721098-055		<0.5				
E4/ME/S/ REPLICATE 2	[25-MAY-2017]	HK1721098-056		<0.5				
E4/ME/M/ REPLICATE 1	[25-MAY-2017]	HK1721098-057		<0.5				
E4/ME/M/ REPLICATE 2	[25-MAY-2017]	HK1721098-058		<0.5				
E4/ME/B/ REPLICATE 1	[25-MAY-2017]	HK1721098-059		<0.5				
E4/ME/B/ REPLICATE 2	[25-MAY-2017]	HK1721098-060		<0.5				
G5/ME/S/ REPLICATE 1	[25-MAY-2017]	HK1721098-061		**1.1**				
G5/ME/S/ REPLICATE 2	[25-MAY-2017]	HK1721098-062		**1.9**				
G5/ME/M/ REPLICATE 1	[25-MAY-2017]	HK1721098-063		<0.5				
G5/ME/M/ REPLICATE 2	[25-MAY-2017]	HK1721098-064		<0.5				
G5/ME/B/ REPLICATE 1	[25-MAY-2017]	HK1721098-065		**1.2**				
G5/ME/B/ REPLICATE 2	[25-MAY-2017]	HK1721098-066		**1.2**				
G4/ME/S/ REPLICATE 1	[25-MAY-2017]	HK1721098-067		**1.6**				
G4/ME/S/ REPLICATE 2	[25-MAY-2017]	HK1721098-068		**1.0**				
G4/ME/M/ REPLICATE 1	[25-MAY-2017]	HK1721098-069		<0.5				
G4/ME/M/ REPLICATE 2	[25-MAY-2017]	HK1721098-070		**0.7**				

Sub-Matrix: **WATER**

Client sample ID	*Client sampling date / time*	*Laboratory sample ID*	*Compound*	**EA025: Suspended Solids (SS)**				
			LOR Unit	0.5 mg/L				
				EA/ED: Physical and Aggregate Properties				
G4/ME/B/ REPLICATE 1	[25-MAY-2017]	HK1721098-071		**0.6**				
G4/ME/B/ REPLICATE 2	[25-MAY-2017]	HK1721098-072		<0.5				
E7/ME/S/ REPLICATE 1	[25-MAY-2017]	HK1721098-073		<0.5				
E7/ME/S/ REPLICATE 2	[25-MAY-2017]	HK1721098-074		<0.5				
E7/ME/M/ REPLICATE 1	[25-MAY-2017]	HK1721098-075		**1.1**				
E7/ME/M/ REPLICATE 2	[25-MAY-2017]	HK1721098-076		**0.7**				
E7/ME/B/ REPLICATE 1	[25-MAY-2017]	HK1721098-077		<0.5				
E7/ME/B/ REPLICATE 2	[25-MAY-2017]	HK1721098-078		<0.5				
E6/ME/S/ REPLICATE 1	[25-MAY-2017]	HK1721098-079		<0.5				
E6/ME/S/ REPLICATE 2	[25-MAY-2017]	HK1721098-080		<0.5				
E6/ME/M/ REPLICATE 1	[25-MAY-2017]	HK1721098-081		**0.6**				
E6/ME/M/ REPLICATE 2	[25-MAY-2017]	HK1721098-082		<0.5				
E6/ME/B/ REPLICATE 1	[25-MAY-2017]	HK1721098-083		<0.5				
E6/ME/B/ REPLICATE 2	[25-MAY-2017]	HK1721098-084		<0.5				
C1/ME/S/ REPLICATE 1	[25-MAY-2017]	HK1721098-085		<0.5				
C1/ME/S/ REPLICATE 2	[25-MAY-2017]	HK1721098-086		<0.5				
C1/ME/M/ REPLICATE 1	[25-MAY-2017]	HK1721098-087		**0.9**				
C1/ME/M/ REPLICATE 2	[25-MAY-2017]	HK1721098-088		<0.5				
C1/ME/B/ REPLICATE 1	[25-MAY-2017]	HK1721098-089		<0.5				
C1/ME/B/ REPLICATE 2	[25-MAY-2017]	HK1721098-090		**0.5**				
L1/MF/S/ REPLICATE 1	[25-MAY-2017]	HK1721098-091		**1.6**				
L1/MF/S/ REPLICATE 2	[25-MAY-2017]	HK1721098-092		**1.6**				
L1/MF/M/ REPLICATE 1	[25-MAY-2017]	HK1721098-093		**0.9**				
L1/MF/M/ REPLICATE 2	[25-MAY-2017]	HK1721098-094		**1.3**				
L1/MF/B/ REPLICATE 1	[25-MAY-2017]	HK1721098-095		**0.7**				
L1/MF/B/ REPLICATE 2	[25-MAY-2017]	HK1721098-096		**1.3**				
B1/MF/S/ REPLICATE 1	[25-MAY-2017]	HK1721098-097		**1.0**				
B1/MF/S/ REPLICATE 2	[25-MAY-2017]	HK1721098-098		**0.7**				
B1/MF/M/ REPLICATE 1	[25-MAY-2017]	HK1721098-099		**0.6**				
B1/MF/M/ REPLICATE 2	[25-MAY-2017]	HK1721098-100		**1.0**				
B1/MF/B/ REPLICATE 1	[25-MAY-2017]	HK1721098-101		**1.5**				
B1/MF/B/ REPLICATE 2	[25-MAY-2017]	HK1721098-102		**1.0**				
G3/MF/S/ REPLICATE 1	[25-MAY-2017]	HK1721098-103		<0.5				
G3/MF/S/ REPLICATE 2	[25-MAY-2017]	HK1721098-104		<0.5				
G3/MF/M/ REPLICATE 1	[25-MAY-2017]	HK1721098-105		<0.5				

Sub-Matrix: **WATER**

Client sample ID	*Client sampling date / time*	*Laboratory sample ID*	*Compound*	**EA025: Suspended Solids (SS)**				
			LOR Unit	0.5 mg/L				
				EA/ED: Physical and Aggregate Properties				
G3/MF/M/ REPLICATE 2	[25-MAY-2017]	HK1721098-106		**0.6**				
G3/MF/B/ REPLICATE 1	[25-MAY-2017]	HK1721098-107		<0.5				
G3/MF/B/ REPLICATE 2	[25-MAY-2017]	HK1721098-108		<0.5				
E1/MF/S/ REPLICATE 1	[25-MAY-2017]	HK1721098-109		<0.5				
E1/MF/S/ REPLICATE 2	[25-MAY-2017]	HK1721098-110		<0.5				
E1/MF/M/ REPLICATE 1	[25-MAY-2017]	HK1721098-111		**0.8**				
E1/MF/M/ REPLICATE 2	[25-MAY-2017]	HK1721098-112		**0.6**				
E1/MF/B/ REPLICATE 1	[25-MAY-2017]	HK1721098-113		**1.0**				
E1/MF/B/ REPLICATE 2	[25-MAY-2017]	HK1721098-114		<0.5				
E2/MF/S/ REPLICATE 1	[25-MAY-2017]	HK1721098-115		<0.5				
E2/MF/S/ REPLICATE 2	[25-MAY-2017]	HK1721098-116		<0.5				
E2/MF/M/ REPLICATE 1	[25-MAY-2017]	HK1721098-117		<0.5				
E2/MF/M/ REPLICATE 2	[25-MAY-2017]	HK1721098-118		<0.5				
E2/MF/B/ REPLICATE 1	[25-MAY-2017]	HK1721098-119		<0.5				
E2/MF/B/ REPLICATE 2	[25-MAY-2017]	HK1721098-120		<0.5				
E3/MF/S/ REPLICATE 1	[25-MAY-2017]	HK1721098-121		**0.7**				
E3/MF/S/ REPLICATE 2	[25-MAY-2017]	HK1721098-122		<0.5				
E3/MF/M/ REPLICATE 1	[25-MAY-2017]	HK1721098-123		<0.5				
E3/MF/M/ REPLICATE 2	[25-MAY-2017]	HK1721098-124		<0.5				
E3/MF/B/ REPLICATE 1	[25-MAY-2017]	HK1721098-125		**1.1**				
E3/MF/B/ REPLICATE 2	[25-MAY-2017]	HK1721098-126		**1.3**				
G1/MF/S/ REPLICATE 1	[25-MAY-2017]	HK1721098-127		<0.5				
G1/MF/S/ REPLICATE 2	[25-MAY-2017]	HK1721098-128		<0.5				
G1/MF/M/ REPLICATE 1	[25-MAY-2017]	HK1721098-129		<0.5				
G1/MF/M/ REPLICATE 2	[25-MAY-2017]	HK1721098-130		<0.5				
G1/MF/B/ REPLICATE 1	[25-MAY-2017]	HK1721098-131		<0.5				
G1/MF/B/ REPLICATE 2	[25-MAY-2017]	HK1721098-132		<0.5				
G2/MF/S/ REPLICATE 1	[25-MAY-2017]	HK1721098-133		**0.6**				
G2/MF/S/ REPLICATE 2	[25-MAY-2017]	HK1721098-134		<0.5				
G2/MF/M/ REPLICATE 1	[25-MAY-2017]	HK1721098-135		**0.6**				
G2/MF/M/ REPLICATE 2	[25-MAY-2017]	HK1721098-136		**0.5**				
G2/MF/B/ REPLICATE 1	[25-MAY-2017]	HK1721098-137		**0.6**				
G2/MF/B/ REPLICATE 2	[25-MAY-2017]	HK1721098-138		**1.0**				
E5/MF/S/ REPLICATE 1	[25-MAY-2017]	HK1721098-139		**0.7**				
E5/MF/S/ REPLICATE 2	[25-MAY-2017]	HK1721098-140		**0.8**				

Sub-Matrix: **WATER**

Client sample ID	*Client sampling date / time*	*Laboratory sample ID*	*Compound*	**EA025: Suspended Solids (SS)**				
			LOR Unit	0.5 mg/L				
				EA/ED: Physical and Aggregate Properties				
E5/MF/M/ REPLICATE 1	[25-MAY-2017]	HK1721098-141		**1.0**				
E5/MF/M/ REPLICATE 2	[25-MAY-2017]	HK1721098-142		**0.9**				
E5/MF/B/ REPLICATE 1	[25-MAY-2017]	HK1721098-143		<0.5				
E5/MF/B/ REPLICATE 2	[25-MAY-2017]	HK1721098-144		**0.5**				
E4/MF/S/ REPLICATE 1	[25-MAY-2017]	HK1721098-145		**1.7**				
E4/MF/S/ REPLICATE 2	[25-MAY-2017]	HK1721098-146		**1.1**				
E4/MF/M/ REPLICATE 1	[25-MAY-2017]	HK1721098-147		<0.5				
E4/MF/M/ REPLICATE 2	[25-MAY-2017]	HK1721098-148		<0.5				
E4/MF/B/ REPLICATE 1	[25-MAY-2017]	HK1721098-149		<0.5				
E4/MF/B/ REPLICATE 2	[25-MAY-2017]	HK1721098-150		<0.5				
G5/MF/S/ REPLICATE 1	[25-MAY-2017]	HK1721098-151		**1.2**				
G5/MF/S/ REPLICATE 2	[25-MAY-2017]	HK1721098-152		**1.6**				
G5/MF/M/ REPLICATE 1	[25-MAY-2017]	HK1721098-153		<0.5				
G5/MF/M/ REPLICATE 2	[25-MAY-2017]	HK1721098-154		**0.6**				
G5/MF/B/ REPLICATE 1	[25-MAY-2017]	HK1721098-155		<0.5				
G5/MF/B/ REPLICATE 2	[25-MAY-2017]	HK1721098-156		<0.5				
G4/MF/S/ REPLICATE 1	[25-MAY-2017]	HK1721098-157		<0.5				
G4/MF/S/ REPLICATE 2	[25-MAY-2017]	HK1721098-158		<0.5				
G4/MF/M/ REPLICATE 1	[25-MAY-2017]	HK1721098-159		<0.5				
G4/MF/M/ REPLICATE 2	[25-MAY-2017]	HK1721098-160		<0.5				
G4/MF/B/ REPLICATE 1	[25-MAY-2017]	HK1721098-161		<0.5				
G4/MF/B/ REPLICATE 2	[25-MAY-2017]	HK1721098-162		<0.5				
E7/MF/S/ REPLICATE 1	[25-MAY-2017]	HK1721098-163		<0.5				
E7/MF/S/ REPLICATE 2	[25-MAY-2017]	HK1721098-164		<0.5				
E7/MF/M/ REPLICATE 1	[25-MAY-2017]	HK1721098-165		<0.5				
E7/MF/M/ REPLICATE 2	[25-MAY-2017]	HK1721098-166		<0.5				
E7/MF/B/ REPLICATE 1	[25-MAY-2017]	HK1721098-167		<0.5				
E7/MF/B/ REPLICATE 2	[25-MAY-2017]	HK1721098-168		**0.8**				
E6/MF/S/ REPLICATE 1	[25-MAY-2017]	HK1721098-169		**1.7**				
E6/MF/S/ REPLICATE 2	[25-MAY-2017]	HK1721098-170		**1.3**				
E6/MF/M/ REPLICATE 1	[25-MAY-2017]	HK1721098-171		**1.0**				
E6/MF/M/ REPLICATE 2	[25-MAY-2017]	HK1721098-172		**1.6**				
E6/MF/B/ REPLICATE 1	[25-MAY-2017]	HK1721098-173		**0.9**				
E6/MF/B/ REPLICATE 2	[25-MAY-2017]	HK1721098-174		**0.9**				
C1/MF/S/ REPLICATE 1	[25-MAY-2017]	HK1721098-175		**1.5**				

Sub-Matrix: **WATER**

Client sample ID	*Client sampling date / time*	*Laboratory sample ID*	*Compound*	**EA025: Suspended Solids (SS)**				
			LOR Unit	0.5 mg/L				
				EA/ED: Physical and Aggregate Properties				
C1/MF/S/ REPLICATE 2	[25-MAY-2017]	HK1721098-176		**1.2**				
C1/MF/M/ REPLICATE 1	[25-MAY-2017]	HK1721098-177		**1.4**				
C1/MF/M/ REPLICATE 2	[25-MAY-2017]	HK1721098-178		**1.2**				
C1/MF/B/ REPLICATE 1	[25-MAY-2017]	HK1721098-179		**0.8**				
C1/MF/B/ REPLICATE 2	[25-MAY-2017]	HK1721098-180		**1.3**				

Laboratory Duplicate (DUP) Report

Matrix: **WATER**

Laboratory sample ID	Client 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: 4488455)								
HK1721098-001	L1/ME/S/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	0.6	0.5	0.0
HK1721098-011	B1/ME/B/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	0.5	0.0
EA/ED: Physical and Aggregate Properties (QC Lot: 4488456)								
HK1721098-021	E1/ME/M/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	<0.5	0.0
HK1721098-031	E3/ME/S/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	<0.5	0.0
EA/ED: Physical and Aggregate Properties (QC Lot: 4488457)								
HK1721098-041	G1/ME/B/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	3.2	2.2	40.7
HK1721098-051	E5/ME/M/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	0.9	59.6
EA/ED: Physical and Aggregate Properties (QC Lot: 4488458)								
HK1721098-061	G5/ME/S/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	1.1	0.9	25.0
HK1721098-071	G4/ME/B/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	0.6	0.8	25.4
EA/ED: Physical and Aggregate Properties (QC Lot: 4488459)								
HK1721098-081	E6/ME/M/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	0.6	<0.5	26.1
HK1721098-091	L1/MF/S/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	1.6	1.6	0.0
EA/ED: Physical and Aggregate Properties (QC Lot: 4488460)								
HK1721098-101	B1/MF/B/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	1.5	1.9	21.9
HK1721098-111	E1/MF/M/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	0.8	0.6	32.7
EA/ED: Physical and Aggregate Properties (QC Lot: 4488461)								
HK1721098-121	E3/MF/S/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	0.7	<0.5	29.8
HK1721098-131	G1/MF/B/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	0.8	40.0
EA/ED: Physical and Aggregate Properties (QC Lot: 4488462)								
HK1721098-141	E5/MF/M/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	1.0	1.4	32.2
HK1721098-151	G5/MF/S/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	1.2	0.8	44.2
EA/ED: Physical and Aggregate Properties (QC Lot: 4488463)								
HK1721098-161	G4/MF/B/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	<0.5	0.0
HK1721098-171	E6/MF/M/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	1.0	1.4	41.7

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: 4488455)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20.0 mg/L	98.0	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 4488456)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20.0 mg/L	92.5	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 4488457)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20.0 mg/L	101	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 4488458)											

Matrix: **WATER**

		Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
					Spike	Spike Recovery (%)		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: 4488458) - continued											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20.0 mg/L	100	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 4488459)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20.0 mg/L	92.5	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 4488460)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20.0 mg/L	106	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 4488461)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20.0 mg/L	97.5	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 4488462)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20.0 mg/L	108	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 4488463)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20.0 mg/L	90.5	----	85	115	----	----

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	:	**AECOM ASIA COMPANY LIMITED**	*Laboratory*	:	**ALS Technichem (HK) Pty Ltd**	*Page*	: **1 of 10**
Contact	:	**MR Y W FUNG**	*Contact*	:	**Fung Lim Chee, Richard**	*Work Order*	: **HK1721434**
Address	:	**1501-10, 15/F, TOWER 1, GRAND CENTRAL PLAZA, 138 SHATIN RURAL COMMITTEE ROAD, SHATIN NEW TERRITORIES, HONG KONG**	*Address*	:	**11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong**		
E-mail	:	**yw.fung@aecom.com**	*E-mail*	:	**Richard.Fung@alsglobal.com**		
Telephone	:	**+852 3105 8544**	*Telephone*	:	**+852 2610 1044**		
Facsimile	:	**----**	*Facsimile*	:	**+852 2610 2021**		
Project	:	**WATER QUALITY MONITORING FOR ASIA-AFRICA-EUROPE-1 CABLE SYSTEM (AAE-1) AT CAPE D AGUILAR HONG KONG**	*Quote number*	:	**----**	*Date received*	: **27-MAY-2017**
Order number	:	**----**				*Date of issue*	: **06-JUN-2017**
C-O-C number	:	**----**				*No. of samples*	- *Received* : **180**
Site	:	**----**					- *Analysed* : **180**

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	**General Manager**	**Inorganics**

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK1721434 supersedes any previous reports with this reference. Testing period is from 27-MAY-2017 to 06-JUN-2017. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for process purposes. Abbreviations: CAS number = Chemical Abstract Services number. LOR = Limit of reporting.

Specific Comments for Work Order HK1721434 :

Sample(s) were picked up from client by ALS Technichem (HK) staff in chilled condition.

Water sample(s) analysed and reported on an as received basis.

Analytical Results

Sub-Matrix: **WATER**

Client sample ID	Client sampling date / time	Laboratory sample ID	Compound	EA025: Suspended Solids (SS)				
			LOR Unit	0.5 mg/L				
				EA/ED: Physical and Aggregate Properties				
L1/ME/S/ REPLICATE 1	[27-MAY-2017]	HK1721434-001		**12.4**				
L1/ME/S/ REPLICATE 2	[27-MAY-2017]	HK1721434-002		**11.9**				
L1/ME/M/ REPLICATE 1	[27-MAY-2017]	HK1721434-003		**12.6**				
L1/ME/M/ REPLICATE 2	[27-MAY-2017]	HK1721434-004		**13.3**				
L1/ME/B/ REPLICATE 1	[27-MAY-2017]	HK1721434-005		**12.0**				
L1/ME/B/ REPLICATE 2	[27-MAY-2017]	HK1721434-006		**11.9**				
B1/ME/S/ REPLICATE 1	[27-MAY-2017]	HK1721434-007		**4.0**				
B1/ME/S/ REPLICATE 2	[27-MAY-2017]	HK1721434-008		**4.5**				
B1/ME/M/ REPLICATE 1	[27-MAY-2017]	HK1721434-009		**6.4**				
B1/ME/M/ REPLICATE 2	[27-MAY-2017]	HK1721434-010		**4.3**				
B1/ME/B/ REPLICATE 1	[27-MAY-2017]	HK1721434-011		**5.8**				
B1/ME/B/ REPLICATE 2	[27-MAY-2017]	HK1721434-012		**4.6**				
G3/ME/S/ REPLICATE 1	[27-MAY-2017]	HK1721434-013		**5.8**				
G3/ME/S/ REPLICATE 2	[27-MAY-2017]	HK1721434-014		**4.0**				
G3/ME/M/ REPLICATE 1	[27-MAY-2017]	HK1721434-015		**5.1**				
G3/ME/M/ REPLICATE 2	[27-MAY-2017]	HK1721434-016		**4.8**				
G3/ME/B/ REPLICATE 1	[27-MAY-2017]	HK1721434-017		**11.8**				
G3/ME/B/ REPLICATE 2	[27-MAY-2017]	HK1721434-018		**9.7**				
E1/ME/S/ REPLICATE 1	[27-MAY-2017]	HK1721434-019		**8.0**				
E1/ME/S/ REPLICATE 2	[27-MAY-2017]	HK1721434-020		**6.4**				
E1/ME/M/ REPLICATE 1	[27-MAY-2017]	HK1721434-021		**9.9**				
E1/ME/M/ REPLICATE 2	[27-MAY-2017]	HK1721434-022		**10.4**				
E1/ME/B/ REPLICATE 1	[27-MAY-2017]	HK1721434-023		**10.1**				
E1/ME/B/ REPLICATE 2	[27-MAY-2017]	HK1721434-024		**10.1**				
E2/ME/S/ REPLICATE 1	[27-MAY-2017]	HK1721434-025		**2.9**				
E2/ME/S/ REPLICATE 2	[27-MAY-2017]	HK1721434-026		**5.3**				
E2/ME/M/ REPLICATE 1	[27-MAY-2017]	HK1721434-027		**4.5**				
E2/ME/M/ REPLICATE 2	[27-MAY-2017]	HK1721434-028		**3.3**				
E2/ME/B/ REPLICATE 1	[27-MAY-2017]	HK1721434-029		**3.2**				
E2/ME/B/ REPLICATE 2	[27-MAY-2017]	HK1721434-030		**4.2**				
E3/ME/S/ REPLICATE 1	[27-MAY-2017]	HK1721434-031		**7.7**				
E3/ME/S/ REPLICATE 2	[27-MAY-2017]	HK1721434-032		**6.0**				
E3/ME/M/ REPLICATE 1	[27-MAY-2017]	HK1721434-033		**5.7**				
E3/ME/M/ REPLICATE 2	[27-MAY-2017]	HK1721434-034		**5.8**				
E3/ME/B/ REPLICATE 1	[27-MAY-2017]	HK1721434-035		**6.2**				

Sub-Matrix: **WATER**

Client sample ID	*Client sampling date / time*	*Laboratory sample ID*	*Compound*	**EA025: Suspended Solids (SS)**				
			LOR Unit	0.5 mg/L				
				EA/ED: Physical and Aggregate Properties				
E3/ME/B/ REPLICATE 2	[27-MAY-2017]	HK1721434-036		**6.1**				
G1/ME/S/ REPLICATE 1	[27-MAY-2017]	HK1721434-037		**4.8**				
G1/ME/S/ REPLICATE 2	[27-MAY-2017]	HK1721434-038		**5.1**				
G1/ME/M/ REPLICATE 1	[27-MAY-2017]	HK1721434-039		**4.2**				
G1/ME/M/ REPLICATE 2	[27-MAY-2017]	HK1721434-040		**3.8**				
G1/ME/B/ REPLICATE 1	[27-MAY-2017]	HK1721434-041		**6.1**				
G1/ME/B/ REPLICATE 2	[27-MAY-2017]	HK1721434-042		**4.2**				
G2/ME/S/ REPLICATE 1	[27-MAY-2017]	HK1721434-043		**3.5**				
G2/ME/S/ REPLICATE 2	[27-MAY-2017]	HK1721434-044		**2.6**				
G2/ME/M/ REPLICATE 1	[27-MAY-2017]	HK1721434-045		**4.8**				
G2/ME/M/ REPLICATE 2	[27-MAY-2017]	HK1721434-046		**3.4**				
G2/ME/B/ REPLICATE 1	[27-MAY-2017]	HK1721434-047		**7.1**				
G2/ME/B/ REPLICATE 2	[27-MAY-2017]	HK1721434-048		**6.4**				
E5/ME/S/ REPLICATE 1	[27-MAY-2017]	HK1721434-049		**4.3**				
E5/ME/S/ REPLICATE 2	[27-MAY-2017]	HK1721434-050		**2.1**				
E5/ME/M/ REPLICATE 1	[27-MAY-2017]	HK1721434-051		**5.6**				
E5/ME/M/ REPLICATE 2	[27-MAY-2017]	HK1721434-052		**5.5**				
E5/ME/B/ REPLICATE 1	[27-MAY-2017]	HK1721434-053		**5.4**				
E5/ME/B/ REPLICATE 2	[27-MAY-2017]	HK1721434-054		**5.2**				
E4/ME/S/ REPLICATE 1	[27-MAY-2017]	HK1721434-055		**5.4**				
E4/ME/S/ REPLICATE 2	[27-MAY-2017]	HK1721434-056		**5.2**				
E4/ME/M/ REPLICATE 1	[27-MAY-2017]	HK1721434-057		**3.9**				
E4/ME/M/ REPLICATE 2	[27-MAY-2017]	HK1721434-058		**4.5**				
E4/ME/B/ REPLICATE 1	[27-MAY-2017]	HK1721434-059		**6.0**				
E4/ME/B/ REPLICATE 2	[27-MAY-2017]	HK1721434-060		**7.8**				
G5/ME/S/ REPLICATE 1	[27-MAY-2017]	HK1721434-061		**4.5**				
G5/ME/S/ REPLICATE 2	[27-MAY-2017]	HK1721434-062		**4.3**				
G5/ME/M/ REPLICATE 1	[27-MAY-2017]	HK1721434-063		**4.0**				
G5/ME/M/ REPLICATE 2	[27-MAY-2017]	HK1721434-064		**4.7**				
G5/ME/B/ REPLICATE 1	[27-MAY-2017]	HK1721434-065		**6.7**				
G5/ME/B/ REPLICATE 2	[27-MAY-2017]	HK1721434-066		**4.6**				
G4/ME/S/ REPLICATE 1	[27-MAY-2017]	HK1721434-067		**3.5**				
G4/ME/S/ REPLICATE 2	[27-MAY-2017]	HK1721434-068		**4.6**				
G4/ME/M/ REPLICATE 1	[27-MAY-2017]	HK1721434-069		**4.4**				
G4/ME/M/ REPLICATE 2	[27-MAY-2017]	HK1721434-070		**5.6**				

Sub-Matrix: **WATER**

Client sample ID	*Client sampling date / time*	*Laboratory sample ID*	*Compound*	**EA025: Suspended Solids (SS)**				
			LOR Unit	0.5 mg/L				
				EA/ED: Physical and Aggregate Properties				
G4/ME/B/ REPLICATE 1	[27-MAY-2017]	HK1721434-071		**9.8**				
G4/ME/B/ REPLICATE 2	[27-MAY-2017]	HK1721434-072		**10.3**				
E7/ME/S/ REPLICATE 1	[27-MAY-2017]	HK1721434-073		**4.3**				
E7/ME/S/ REPLICATE 2	[27-MAY-2017]	HK1721434-074		**4.1**				
E7/ME/M/ REPLICATE 1	[27-MAY-2017]	HK1721434-075		**3.5**				
E7/ME/M/ REPLICATE 2	[27-MAY-2017]	HK1721434-076		**3.5**				
E7/ME/B/ REPLICATE 1	[27-MAY-2017]	HK1721434-077		**4.0**				
E7/ME/B/ REPLICATE 2	[27-MAY-2017]	HK1721434-078		**3.9**				
E6/ME/S/ REPLICATE 1	[27-MAY-2017]	HK1721434-079		**3.4**				
E6/ME/S/ REPLICATE 2	[27-MAY-2017]	HK1721434-080		**4.7**				
E6/ME/M/ REPLICATE 1	[27-MAY-2017]	HK1721434-081		**6.6**				
E6/ME/M/ REPLICATE 2	[27-MAY-2017]	HK1721434-082		**8.0**				
E6/ME/B/ REPLICATE 1	[27-MAY-2017]	HK1721434-083		**9.7**				
E6/ME/B/ REPLICATE 2	[27-MAY-2017]	HK1721434-084		**11.5**				
C1/ME/S/ REPLICATE 1	[27-MAY-2017]	HK1721434-085		**4.3**				
C1/ME/S/ REPLICATE 2	[27-MAY-2017]	HK1721434-086		**4.2**				
C1/ME/M/ REPLICATE 1	[27-MAY-2017]	HK1721434-087		**5.6**				
C1/ME/M/ REPLICATE 2	[27-MAY-2017]	HK1721434-088		**7.0**				
C1/ME/B/ REPLICATE 1	[27-MAY-2017]	HK1721434-089		**7.0**				
C1/ME/B/ REPLICATE 2	[27-MAY-2017]	HK1721434-090		**9.1**				
L1/MF/S/ REPLICATE 1	[27-MAY-2017]	HK1721434-091		**8.1**				
L1/MF/S/ REPLICATE 2	[27-MAY-2017]	HK1721434-092		**9.6**				
L1/MF/M/ REPLICATE 1	[27-MAY-2017]	HK1721434-093		**8.5**				
L1/MF/M/ REPLICATE 2	[27-MAY-2017]	HK1721434-094		**8.8**				
L1/MF/B/ REPLICATE 1	[27-MAY-2017]	HK1721434-095		**8.5**				
L1/MF/B/ REPLICATE 2	[27-MAY-2017]	HK1721434-096		**7.8**				
B1/MF/S/ REPLICATE 1	[27-MAY-2017]	HK1721434-097		**5.6**				
B1/MF/S/ REPLICATE 2	[27-MAY-2017]	HK1721434-098		**3.7**				
B1/MF/M/ REPLICATE 1	[27-MAY-2017]	HK1721434-099		**4.3**				
B1/MF/M/ REPLICATE 2	[27-MAY-2017]	HK1721434-100		**4.1**				
B1/MF/B/ REPLICATE 1	[27-MAY-2017]	HK1721434-101		**10.9**				
B1/MF/B/ REPLICATE 2	[27-MAY-2017]	HK1721434-102		**9.7**				
G3/MF/S/ REPLICATE 1	[27-MAY-2017]	HK1721434-103		**9.3**				
G3/MF/S/ REPLICATE 2	[27-MAY-2017]	HK1721434-104		**8.5**				
G3/MF/M/ REPLICATE 1	[27-MAY-2017]	HK1721434-105		**10.9**				

Sub-Matrix: **WATER**

Client sample ID	*Client sampling date / time*	*Laboratory sample ID*	*Compound*	**EA025: Suspended Solids (SS)**				
			LOR Unit	0.5 mg/L				
				EA/ED: Physical and Aggregate Properties				
G3/MF/M/ REPLICATE 2	[27-MAY-2017]	HK1721434-106		**11.3**				
G3/MF/B/ REPLICATE 1	[27-MAY-2017]	HK1721434-107		**9.6**				
G3/MF/B/ REPLICATE 2	[27-MAY-2017]	HK1721434-108		**11.0**				
E1/MF/S/ REPLICATE 1	[27-MAY-2017]	HK1721434-109		**5.9**				
E1/MF/S/ REPLICATE 2	[27-MAY-2017]	HK1721434-110		**5.2**				
E1/MF/M/ REPLICATE 1	[27-MAY-2017]	HK1721434-111		**7.0**				
E1/MF/M/ REPLICATE 2	[27-MAY-2017]	HK1721434-112		**8.4**				
E1/MF/B/ REPLICATE 1	[27-MAY-2017]	HK1721434-113		**8.2**				
E1/MF/B/ REPLICATE 2	[27-MAY-2017]	HK1721434-114		**7.4**				
E2/MF/S/ REPLICATE 1	[27-MAY-2017]	HK1721434-115		**4.7**				
E2/MF/S/ REPLICATE 2	[27-MAY-2017]	HK1721434-116		**6.7**				
E2/MF/M/ REPLICATE 1	[27-MAY-2017]	HK1721434-117		**4.6**				
E2/MF/M/ REPLICATE 2	[27-MAY-2017]	HK1721434-118		**6.8**				
E2/MF/B/ REPLICATE 1	[27-MAY-2017]	HK1721434-119		**9.6**				
E2/MF/B/ REPLICATE 2	[27-MAY-2017]	HK1721434-120		**9.1**				
E3/MF/S/ REPLICATE 1	[27-MAY-2017]	HK1721434-121		**6.0**				
E3/MF/S/ REPLICATE 2	[27-MAY-2017]	HK1721434-122		**5.5**				
E3/MF/M/ REPLICATE 1	[27-MAY-2017]	HK1721434-123		**5.1**				
E3/MF/M/ REPLICATE 2	[27-MAY-2017]	HK1721434-124		**5.4**				
E3/MF/B/ REPLICATE 1	[27-MAY-2017]	HK1721434-125		**5.7**				
E3/MF/B/ REPLICATE 2	[27-MAY-2017]	HK1721434-126		**5.7**				
G1/MF/S/ REPLICATE 1	[27-MAY-2017]	HK1721434-127		**4.0**				
G1/MF/S/ REPLICATE 2	[27-MAY-2017]	HK1721434-128		**4.6**				
G1/MF/M/ REPLICATE 1	[27-MAY-2017]	HK1721434-129		**5.7**				
G1/MF/M/ REPLICATE 2	[27-MAY-2017]	HK1721434-130		**3.8**				
G1/MF/B/ REPLICATE 1	[27-MAY-2017]	HK1721434-131		**7.9**				
G1/MF/B/ REPLICATE 2	[27-MAY-2017]	HK1721434-132		**7.1**				
G2/MF/S/ REPLICATE 1	[27-MAY-2017]	HK1721434-133		**4.8**				
G2/MF/S/ REPLICATE 2	[27-MAY-2017]	HK1721434-134		**3.6**				
G2/MF/M/ REPLICATE 1	[27-MAY-2017]	HK1721434-135		**4.7**				
G2/MF/M/ REPLICATE 2	[27-MAY-2017]	HK1721434-136		**5.4**				
G2/MF/B/ REPLICATE 1	[27-MAY-2017]	HK1721434-137		**6.2**				
G2/MF/B/ REPLICATE 2	[27-MAY-2017]	HK1721434-138		**4.3**				
E5/MF/S/ REPLICATE 1	[27-MAY-2017]	HK1721434-139		**6.9**				
E5/MF/S/ REPLICATE 2	[27-MAY-2017]	HK1721434-140		**6.5**				

Sub-Matrix: **WATER**

Client sample ID	*Client sampling date / time*	*Laboratory sample ID*	*Compound*	**EA025: Suspended Solids (SS)**				
			LOR Unit	0.5 mg/L				
				EA/ED: Physical and Aggregate Properties				
E5/MF/M/ REPLICATE 1	[27-MAY-2017]	HK1721434-141		**6.3**				
E5/MF/M/ REPLICATE 2	[27-MAY-2017]	HK1721434-142		**5.4**				
E5/MF/B/ REPLICATE 1	[27-MAY-2017]	HK1721434-143		**9.5**				
E5/MF/B/ REPLICATE 2	[27-MAY-2017]	HK1721434-144		**9.8**				
E4/MF/S/ REPLICATE 1	[27-MAY-2017]	HK1721434-145		**5.7**				
E4/MF/S/ REPLICATE 2	[27-MAY-2017]	HK1721434-146		**4.0**				
E4/MF/M/ REPLICATE 1	[27-MAY-2017]	HK1721434-147		**5.5**				
E4/MF/M/ REPLICATE 2	[27-MAY-2017]	HK1721434-148		**6.9**				
E4/MF/B/ REPLICATE 1	[27-MAY-2017]	HK1721434-149		**5.8**				
E4/MF/B/ REPLICATE 2	[27-MAY-2017]	HK1721434-150		**6.8**				
G5/MF/S/ REPLICATE 1	[27-MAY-2017]	HK1721434-151		**6.3**				
G5/MF/S/ REPLICATE 2	[27-MAY-2017]	HK1721434-152		**6.4**				
G5/MF/M/ REPLICATE 1	[27-MAY-2017]	HK1721434-153		**6.7**				
G5/MF/M/ REPLICATE 2	[27-MAY-2017]	HK1721434-154		**6.0**				
G5/MF/B/ REPLICATE 1	[27-MAY-2017]	HK1721434-155		**6.0**				
G5/MF/B/ REPLICATE 2	[27-MAY-2017]	HK1721434-156		**5.3**				
G4/MF/S/ REPLICATE 1	[27-MAY-2017]	HK1721434-157		**5.2**				
G4/MF/S/ REPLICATE 2	[27-MAY-2017]	HK1721434-158		**5.3**				
G4/MF/M/ REPLICATE 1	[27-MAY-2017]	HK1721434-159		**6.3**				
G4/MF/M/ REPLICATE 2	[27-MAY-2017]	HK1721434-160		**6.4**				
G4/MF/B/ REPLICATE 1	[27-MAY-2017]	HK1721434-161		**7.0**				
G4/MF/B/ REPLICATE 2	[27-MAY-2017]	HK1721434-162		**6.6**				
E7/MF/S/ REPLICATE 1	[27-MAY-2017]	HK1721434-163		**3.3**				
E7/MF/S/ REPLICATE 2	[27-MAY-2017]	HK1721434-164		**3.4**				
E7/MF/M/ REPLICATE 1	[27-MAY-2017]	HK1721434-165		**3.8**				
E7/MF/M/ REPLICATE 2	[27-MAY-2017]	HK1721434-166		**3.1**				
E7/MF/B/ REPLICATE 1	[27-MAY-2017]	HK1721434-167		**6.8**				
E7/MF/B/ REPLICATE 2	[27-MAY-2017]	HK1721434-168		**6.3**				
E6/MF/S/ REPLICATE 1	[27-MAY-2017]	HK1721434-169		**5.2**				
E6/MF/S/ REPLICATE 2	[27-MAY-2017]	HK1721434-170		**5.5**				
E6/MF/M/ REPLICATE 1	[27-MAY-2017]	HK1721434-171		**6.3**				
E6/MF/M/ REPLICATE 2	[27-MAY-2017]	HK1721434-172		**5.1**				
E6/MF/B/ REPLICATE 1	[27-MAY-2017]	HK1721434-173		**7.2**				
E6/MF/B/ REPLICATE 2	[27-MAY-2017]	HK1721434-174		**7.3**				
C1/MF/S/ REPLICATE 1	[27-MAY-2017]	HK1721434-175		**5.3**				

Sub-Matrix: **WATER**

Client sample ID	*Client sampling date / time*	*Laboratory sample ID*	*Compound*	**EA025: Suspended Solids (SS)**				
			LOR Unit	0.5 mg/L				
				EA/ED: Physical and Aggregate Properties				
C1/MF/S/ REPLICATE 2	[27-MAY-2017]	HK1721434-176		**6.9**				
C1/MF/M/ REPLICATE 1	[27-MAY-2017]	HK1721434-177		**7.8**				
C1/MF/M/ REPLICATE 2	[27-MAY-2017]	HK1721434-178		**7.1**				
C1/MF/B/ REPLICATE 1	[27-MAY-2017]	HK1721434-179		**8.6**				
C1/MF/B/ REPLICATE 2	[27-MAY-2017]	HK1721434-180		**10.1**				

Laboratory Duplicate (DUP) Report

Matrix: **WATER**

Laboratory sample ID	Client 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: 4488980)								
HK1721434-001	L1/ME/S/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	12.4	11.8	5.2
HK1721434-011	B1/ME/B/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	5.8	3.9	38.3
EA/ED: Physical and Aggregate Properties (QC Lot: 4488981)								
HK1721434-021	E1/ME/M/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	9.9	8.5	15.2
HK1721434-031	E3/ME/S/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	7.7	6.6	15.0
EA/ED: Physical and Aggregate Properties (QC Lot: 4488982)								
HK1721434-041	G1/ME/B/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	6.1	4.9	21.9
HK1721434-051	E5/ME/M/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	5.6	6.8	19.1
EA/ED: Physical and Aggregate Properties (QC Lot: 4488983)								
HK1721434-061	G5/ME/S/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	4.5	5.2	15.9
HK1721434-071	G4/ME/B/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	9.8	9.0	8.8
EA/ED: Physical and Aggregate Properties (QC Lot: 4488984)								
HK1721434-081	E6/ME/M/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	6.6	7.8	15.9
HK1721434-091	L1/MF/S/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	8.1	9.0	10.5
EA/ED: Physical and Aggregate Properties (QC Lot: 4488985)								
HK1721434-101	B1/MF/B/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	10.9	9.5	13.8
HK1721434-111	E1/MF/M/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	7.0	7.5	6.5
EA/ED: Physical and Aggregate Properties (QC Lot: 4488986)								
HK1721434-121	E3/MF/S/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	6.0	6.7	10.6
HK1721434-131	G1/MF/B/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	7.9	8.0	0.0
EA/ED: Physical and Aggregate Properties (QC Lot: 4488987)								
HK1721434-141	E5/MF/M/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	6.3	5.3	16.8
HK1721434-151	G5/MF/S/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	6.3	5.4	14.9
EA/ED: Physical and Aggregate Properties (QC Lot: 4488988)								
HK1721434-161	G4/MF/B/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	7.0	7.5	7.3
HK1721434-171	E6/MF/M/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	6.3	4.3	38.7

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: 4488980)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20.0 mg/L	106	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 4488981)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20.0 mg/L	98.5	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 4488982)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20.0 mg/L	108	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 4488983)											

Matrix: **WATER**

		Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
					Spike	Spike Recovery (%)		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: 4488983) - continued											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20.0 mg/L	104	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 4488984)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20.0 mg/L	102	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 4488985)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20.0 mg/L	106	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 4488986)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20.0 mg/L	106	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 4488987)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20.0 mg/L	102	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 4488988)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20.0 mg/L	104	----	85	115	----	----

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	:	**AECOM ASIA COMPANY LIMITED**	*Laboratory*	:	**ALS Technichem (HK) Pty Ltd**	*Page*	: **1 of 10**
Contact	:	**MR Y W FUNG**	*Contact*	:	**Fung Lim Chee, Richard**	*Work Order*	: **HK1722119**
Address	:	**1501-10, 15/F, TOWER 1, GRAND CENTRAL PLAZA, 138 SHATIN RURAL COMMITTEE ROAD, SHATIN NEW TERRITORIES, HONG KONG**	*Address*	:	**11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong**		
E-mail	:	**yw.fung@aecom.com**	*E-mail*	:	**Richard.Fung@alsglobal.com**		
Telephone	:	**+852 3105 8544**	*Telephone*	:	**+852 2610 1044**		
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Project	:	**WATER QUALITY MONITORING FOR ASIA-AFRICA-EUROPE-1 CABLE SYSTEM (AAE-1) AT CAPE D AGUILAR HONG KONG**	*Quote number*	:	**----**	*Date received*	: **30-MAY-2017**
Order number	:	**----**				*Date of issue*	: **09-JUN-2017**
C-O-C number	:	**----**				*No. of samples*	- *Received* : **180**
Site	:	**----**					- *Analysed* : **180**

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	**General Manager**	**Inorganics**

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK1722119 supersedes any previous reports with this reference. Testing period is from 30-MAY-2017 to 09-JUN-2017. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for process purposes. Abbreviations: CAS number = Chemical Abstract Services number. LOR = Limit of reporting.

Specific Comments for Work Order HK1722119 :

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.
Sample(s) were picked up from client by ALS Technichem (HK) staff in chilled condition.
Water sample(s) analysed and reported on an as received basis.

Analytical Results

Sub-Matrix: **WATER**

Client sample ID	Client sampling date / time	Laboratory sample ID	Compound	EA025: Suspended Solids (SS)				
			LOR Unit	0.5 mg/L				
				EA/ED: Physical and Aggregate Properties				
L1/ME/S/ REPLICATE 1	[30-MAY-2017]	HK1722119-001		**0.9**				
L1/ME/S/ REPLICATE 2	[30-MAY-2017]	HK1722119-002		**1.6**				
L1/ME/M/ REPLICATE 1	[30-MAY-2017]	HK1722119-003		**0.9**				
L1/ME/M/ REPLICATE 2	[30-MAY-2017]	HK1722119-004		**1.0**				
L1/ME/B/ REPLICATE 1	[30-MAY-2017]	HK1722119-005		**1.7**				
L1/ME/B/ REPLICATE 2	[30-MAY-2017]	HK1722119-006		**1.7**				
B1/ME/S/ REPLICATE 1	[30-MAY-2017]	HK1722119-007		**1.6**				
B1/ME/S/ REPLICATE 2	[30-MAY-2017]	HK1722119-008		**1.2**				
B1/ME/M/ REPLICATE 1	[30-MAY-2017]	HK1722119-009		**0.9**				
B1/ME/M/ REPLICATE 2	[30-MAY-2017]	HK1722119-010		**1.0**				
B1/ME/B/ REPLICATE 1	[30-MAY-2017]	HK1722119-011		**1.0**				
B1/ME/B/ REPLICATE 2	[30-MAY-2017]	HK1722119-012		**1.1**				
G3/ME/S/ REPLICATE 1	[30-MAY-2017]	HK1722119-013		**1.3**				
G3/ME/S/ REPLICATE 2	[30-MAY-2017]	HK1722119-014		**1.2**				
G3/ME/M/ REPLICATE 1	[30-MAY-2017]	HK1722119-015		**1.5**				
G3/ME/M/ REPLICATE 2	[30-MAY-2017]	HK1722119-016		**1.9**				
G3/ME/B/ REPLICATE 1	[30-MAY-2017]	HK1722119-017		**1.4**				
G3/ME/B/ REPLICATE 2	[30-MAY-2017]	HK1722119-018		**1.8**				
E1/ME/S/ REPLICATE 1	[30-MAY-2017]	HK1722119-019		**1.4**				
E1/ME/S/ REPLICATE 2	[30-MAY-2017]	HK1722119-020		**1.0**				
E1/ME/M/ REPLICATE 1	[30-MAY-2017]	HK1722119-021		**1.6**				
E1/ME/M/ REPLICATE 2	[30-MAY-2017]	HK1722119-022		<0.5				
E1/ME/B/ REPLICATE 1	[30-MAY-2017]	HK1722119-023		<0.5				
E1/ME/B/ REPLICATE 2	[30-MAY-2017]	HK1722119-024		<0.5				
E2/ME/S/ REPLICATE 1	[30-MAY-2017]	HK1722119-025		<0.5				
E2/ME/S/ REPLICATE 2	[30-MAY-2017]	HK1722119-026		<0.5				
E2/ME/M/ REPLICATE 1	[30-MAY-2017]	HK1722119-027		<0.5				
E2/ME/M/ REPLICATE 2	[30-MAY-2017]	HK1722119-028		<0.5				
E2/ME/B/ REPLICATE 1	[30-MAY-2017]	HK1722119-029		<0.5				
E2/ME/B/ REPLICATE 2	[30-MAY-2017]	HK1722119-030		<0.5				
E3/ME/S/ REPLICATE 1	[30-MAY-2017]	HK1722119-031		<0.5				
E3/ME/S/ REPLICATE 2	[30-MAY-2017]	HK1722119-032		<0.5				
E3/ME/M/ REPLICATE 1	[30-MAY-2017]	HK1722119-033		**0.7**				
E3/ME/M/ REPLICATE 2	[30-MAY-2017]	HK1722119-034		<0.5				
E3/ME/B/ REPLICATE 1	[30-MAY-2017]	HK1722119-035		**0.9**				

Sub-Matrix: **WATER**

Client sample ID	*Client sampling date / time*	*Laboratory sample ID*	*Compound*	**EA025: Suspended Solids (SS)**				
			LOR Unit	0.5 mg/L				
				EA/ED: Physical and Aggregate Properties				
E3/ME/B/ REPLICATE 2	[30-MAY-2017]	HK1722119-036		**0.9**				
G1/ME/S/ REPLICATE 1	[30-MAY-2017]	HK1722119-037		**0.9**				
G1/ME/S/ REPLICATE 2	[30-MAY-2017]	HK1722119-038		**0.9**				
G1/ME/M/ REPLICATE 1	[30-MAY-2017]	HK1722119-039		**0.8**				
G1/ME/M/ REPLICATE 2	[30-MAY-2017]	HK1722119-040		**0.6**				
G1/ME/B/ REPLICATE 1	[30-MAY-2017]	HK1722119-041		**0.9**				
G1/ME/B/ REPLICATE 2	[30-MAY-2017]	HK1722119-042		**0.5**				
G2/ME/S/ REPLICATE 1	[30-MAY-2017]	HK1722119-043		**0.9**				
G2/ME/S/ REPLICATE 2	[30-MAY-2017]	HK1722119-044		<0.5				
G2/ME/M/ REPLICATE 1	[30-MAY-2017]	HK1722119-045		**0.9**				
G2/ME/M/ REPLICATE 2	[30-MAY-2017]	HK1722119-046		<0.5				
G2/ME/B/ REPLICATE 1	[30-MAY-2017]	HK1722119-047		**1.0**				
G2/ME/B/ REPLICATE 2	[30-MAY-2017]	HK1722119-048		**0.5**				
E5/ME/S/ REPLICATE 1	[30-MAY-2017]	HK1722119-049		**1.6**				
E5/ME/S/ REPLICATE 2	[30-MAY-2017]	HK1722119-050		**1.0**				
E5/ME/M/ REPLICATE 1	[30-MAY-2017]	HK1722119-051		**1.4**				
E5/ME/M/ REPLICATE 2	[30-MAY-2017]	HK1722119-052		**1.6**				
E5/ME/B/ REPLICATE 1	[30-MAY-2017]	HK1722119-053		**0.5**				
E5/ME/B/ REPLICATE 2	[30-MAY-2017]	HK1722119-054		**0.5**				
E4/ME/S/ REPLICATE 1	[30-MAY-2017]	HK1722119-055		**1.0**				
E4/ME/S/ REPLICATE 2	[30-MAY-2017]	HK1722119-056		**1.7**				
E4/ME/M/ REPLICATE 1	[30-MAY-2017]	HK1722119-057		<0.5				
E4/ME/M/ REPLICATE 2	[30-MAY-2017]	HK1722119-058		<0.5				
E4/ME/B/ REPLICATE 1	[30-MAY-2017]	HK1722119-059		**1.8**				
E4/ME/B/ REPLICATE 2	[30-MAY-2017]	HK1722119-060		**1.1**				
G5/ME/S/ REPLICATE 1	[30-MAY-2017]	HK1722119-061		**1.1**				
G5/ME/S/ REPLICATE 2	[30-MAY-2017]	HK1722119-062		**1.4**				
G5/ME/M/ REPLICATE 1	[30-MAY-2017]	HK1722119-063		**1.0**				
G5/ME/M/ REPLICATE 2	[30-MAY-2017]	HK1722119-064		**1.6**				
G5/ME/B/ REPLICATE 1	[30-MAY-2017]	HK1722119-065		<0.5				
G5/ME/B/ REPLICATE 2	[30-MAY-2017]	HK1722119-066		**0.7**				
G4/ME/S/ REPLICATE 1	[30-MAY-2017]	HK1722119-067		**0.6**				
G4/ME/S/ REPLICATE 2	[30-MAY-2017]	HK1722119-068		**1.1**				
G4/ME/M/ REPLICATE 1	[30-MAY-2017]	HK1722119-069		**0.6**				
G4/ME/M/ REPLICATE 2	[30-MAY-2017]	HK1722119-070		<0.5				

Sub-Matrix: **WATER**

Client sample ID	*Client sampling date / time*	*Laboratory sample ID*	*Compound*	**EA025: Suspended Solids (SS)**				
			LOR Unit	0.5 mg/L				
				EA/ED: Physical and Aggregate Properties				
G4/ME/B/ REPLICATE 1	[30-MAY-2017]	HK1722119-071		**0.9**				
G4/ME/B/ REPLICATE 2	[30-MAY-2017]	HK1722119-072		<0.5				
E7/ME/S/ REPLICATE 1	[30-MAY-2017]	HK1722119-073		**0.9**				
E7/ME/S/ REPLICATE 2	[30-MAY-2017]	HK1722119-074		**0.5**				
E7/ME/M/ REPLICATE 1	[30-MAY-2017]	HK1722119-075		<0.5				
E7/ME/M/ REPLICATE 2	[30-MAY-2017]	HK1722119-076		<0.5				
E7/ME/B/ REPLICATE 1	[30-MAY-2017]	HK1722119-077		**0.6**				
E7/ME/B/ REPLICATE 2	[30-MAY-2017]	HK1722119-078		**1.2**				
E6/ME/S/ REPLICATE 1	[30-MAY-2017]	HK1722119-079		<0.5				
E6/ME/S/ REPLICATE 2	[30-MAY-2017]	HK1722119-080		<0.5				
E6/ME/M/ REPLICATE 1	[30-MAY-2017]	HK1722119-081		<0.5				
E6/ME/M/ REPLICATE 2	[30-MAY-2017]	HK1722119-082		<0.5				
E6/ME/B/ REPLICATE 1	[30-MAY-2017]	HK1722119-083		<0.5				
E6/ME/B/ REPLICATE 2	[30-MAY-2017]	HK1722119-084		**0.7**				
C1/ME/S/ REPLICATE 1	[30-MAY-2017]	HK1722119-085		<0.5				
C1/ME/S/ REPLICATE 2	[30-MAY-2017]	HK1722119-086		<0.5				
C1/ME/M/ REPLICATE 1	[30-MAY-2017]	HK1722119-087		**1.1**				
C1/ME/M/ REPLICATE 2	[30-MAY-2017]	HK1722119-088		**0.6**				
C1/ME/B/ REPLICATE 1	[30-MAY-2017]	HK1722119-089		<0.5				
C1/ME/B/ REPLICATE 2	[30-MAY-2017]	HK1722119-090		<0.5				
L1/MF/S/ REPLICATE 1	[30-MAY-2017]	HK1722119-091		**1.0**				
L1/MF/S/ REPLICATE 2	[30-MAY-2017]	HK1722119-092		**1.4**				
L1/MF/M/ REPLICATE 1	[30-MAY-2017]	HK1722119-093		**1.8**				
L1/MF/M/ REPLICATE 2	[30-MAY-2017]	HK1722119-094		**1.2**				
L1/MF/B/ REPLICATE 1	[30-MAY-2017]	HK1722119-095		**0.8**				
L1/MF/B/ REPLICATE 2	[30-MAY-2017]	HK1722119-096		**1.0**				
B1/MF/S/ REPLICATE 1	[30-MAY-2017]	HK1722119-097		**1.2**				
B1/MF/S/ REPLICATE 2	[30-MAY-2017]	HK1722119-098		**0.7**				
B1/MF/M/ REPLICATE 1	[30-MAY-2017]	HK1722119-099		**0.5**				
B1/MF/M/ REPLICATE 2	[30-MAY-2017]	HK1722119-100		**0.7**				
B1/MF/B/ REPLICATE 1	[30-MAY-2017]	HK1722119-101		**1.0**				
B1/MF/B/ REPLICATE 2	[30-MAY-2017]	HK1722119-102		**1.1**				
G3/MF/S/ REPLICATE 1	[30-MAY-2017]	HK1722119-103		<0.5				
G3/MF/S/ REPLICATE 2	[30-MAY-2017]	HK1722119-104		**1.4**				
G3/MF/M/ REPLICATE 1	[30-MAY-2017]	HK1722119-105		<0.5				

Sub-Matrix: **WATER**

Client sample ID	*Client sampling date / time*	*Laboratory sample ID*	*Compound*	**EA025: Suspended Solids (SS)**				
			LOR Unit	0.5 mg/L				
				EA/ED: Physical and Aggregate Properties				
G3/MF/M/ REPLICATE 2	[30-MAY-2017]	HK1722119-106		<0.5				
G3/MF/B/ REPLICATE 1	[30-MAY-2017]	HK1722119-107		<0.5				
G3/MF/B/ REPLICATE 2	[30-MAY-2017]	HK1722119-108		**0.6**				
E1/MF/S/ REPLICATE 1	[30-MAY-2017]	HK1722119-109		**1.2**				
E1/MF/S/ REPLICATE 2	[30-MAY-2017]	HK1722119-110		<0.5				
E1/MF/M/ REPLICATE 1	[30-MAY-2017]	HK1722119-111		**0.6**				
E1/MF/M/ REPLICATE 2	[30-MAY-2017]	HK1722119-112		**1.1**				
E1/MF/B/ REPLICATE 1	[30-MAY-2017]	HK1722119-113		**1.2**				
E1/MF/B/ REPLICATE 2	[30-MAY-2017]	HK1722119-114		**1.0**				
E2/MF/S/ REPLICATE 1	[30-MAY-2017]	HK1722119-115		**0.6**				
E2/MF/S/ REPLICATE 2	[30-MAY-2017]	HK1722119-116		**0.5**				
E2/MF/M/ REPLICATE 1	[30-MAY-2017]	HK1722119-117		**0.6**				
E2/MF/M/ REPLICATE 2	[30-MAY-2017]	HK1722119-118		<0.5				
E2/MF/B/ REPLICATE 1	[30-MAY-2017]	HK1722119-119		**1.2**				
E2/MF/B/ REPLICATE 2	[30-MAY-2017]	HK1722119-120		<0.5				
E3/MF/S/ REPLICATE 1	[30-MAY-2017]	HK1722119-121		**0.7**				
E3/MF/S/ REPLICATE 2	[30-MAY-2017]	HK1722119-122		**0.6**				
E3/MF/M/ REPLICATE 1	[30-MAY-2017]	HK1722119-123		**0.7**				
E3/MF/M/ REPLICATE 2	[30-MAY-2017]	HK1722119-124		**0.8**				
E3/MF/B/ REPLICATE 1	[30-MAY-2017]	HK1722119-125		**0.9**				
E3/MF/B/ REPLICATE 2	[30-MAY-2017]	HK1722119-126		**1.4**				
G1/MF/S/ REPLICATE 1	[30-MAY-2017]	HK1722119-127		**1.1**				
G1/MF/S/ REPLICATE 2	[30-MAY-2017]	HK1722119-128		**0.8**				
G1/MF/M/ REPLICATE 1	[30-MAY-2017]	HK1722119-129		**0.8**				
G1/MF/M/ REPLICATE 2	[30-MAY-2017]	HK1722119-130		<0.5				
G1/MF/B/ REPLICATE 1	[30-MAY-2017]	HK1722119-131		**1.4**				
G1/MF/B/ REPLICATE 2	[30-MAY-2017]	HK1722119-132		**0.8**				
G2/MF/S/ REPLICATE 1	[30-MAY-2017]	HK1722119-133		**1.7**				
G2/MF/S/ REPLICATE 2	[30-MAY-2017]	HK1722119-134		**1.3**				
G2/MF/M/ REPLICATE 1	[30-MAY-2017]	HK1722119-135		**2.8**				
G2/MF/M/ REPLICATE 2	[30-MAY-2017]	HK1722119-136		**3.7**				
G2/MF/B/ REPLICATE 1	[30-MAY-2017]	HK1722119-137		**2.7**				
G2/MF/B/ REPLICATE 2	[30-MAY-2017]	HK1722119-138		**3.2**				
E5/MF/S/ REPLICATE 1	[30-MAY-2017]	HK1722119-139		**1.9**				
E5/MF/S/ REPLICATE 2	[30-MAY-2017]	HK1722119-140		<0.5				

Sub-Matrix: **WATER**

Client sample ID	*Client sampling date / time*	*Laboratory sample ID*	*Compound*	**EA025: Suspended Solids (SS)**				
			LOR Unit	0.5 mg/L				
				EA/ED: Physical and Aggregate Properties				
E5/MF/M/ REPLICATE 1	[30-MAY-2017]	HK1722119-141		**2.0**				
E5/MF/M/ REPLICATE 2	[30-MAY-2017]	HK1722119-142		**1.3**				
E5/MF/B/ REPLICATE 1	[30-MAY-2017]	HK1722119-143		**5.4**				
E5/MF/B/ REPLICATE 2	[30-MAY-2017]	HK1722119-144		**7.1**				
E4/MF/S/ REPLICATE 1	[30-MAY-2017]	HK1722119-145		**1.3**				
E4/MF/S/ REPLICATE 2	[30-MAY-2017]	HK1722119-146		**0.6**				
E4/MF/M/ REPLICATE 1	[30-MAY-2017]	HK1722119-147		**1.8**				
E4/MF/M/ REPLICATE 2	[30-MAY-2017]	HK1722119-148		**1.2**				
E4/MF/B/ REPLICATE 1	[30-MAY-2017]	HK1722119-149		**1.0**				
E4/MF/B/ REPLICATE 2	[30-MAY-2017]	HK1722119-150		**1.1**				
G5/MF/S/ REPLICATE 1	[30-MAY-2017]	HK1722119-151		**1.4**				
G5/MF/S/ REPLICATE 2	[30-MAY-2017]	HK1722119-152		**0.7**				
G5/MF/M/ REPLICATE 1	[30-MAY-2017]	HK1722119-153		**0.9**				
G5/MF/M/ REPLICATE 2	[30-MAY-2017]	HK1722119-154		**1.6**				
G5/MF/B/ REPLICATE 1	[30-MAY-2017]	HK1722119-155		**1.1**				
G5/MF/B/ REPLICATE 2	[30-MAY-2017]	HK1722119-156		<0.5				
G4/MF/S/ REPLICATE 1	[30-MAY-2017]	HK1722119-157		**0.9**				
G4/MF/S/ REPLICATE 2	[30-MAY-2017]	HK1722119-158		**0.9**				
G4/MF/M/ REPLICATE 1	[30-MAY-2017]	HK1722119-159		**0.9**				
G4/MF/M/ REPLICATE 2	[30-MAY-2017]	HK1722119-160		**1.0**				
G4/MF/B/ REPLICATE 1	[30-MAY-2017]	HK1722119-161		**0.5**				
G4/MF/B/ REPLICATE 2	[30-MAY-2017]	HK1722119-162		**1.7**				
E7/MF/S/ REPLICATE 1	[30-MAY-2017]	HK1722119-163		**0.9**				
E7/MF/S/ REPLICATE 2	[30-MAY-2017]	HK1722119-164		**0.5**				
E7/MF/M/ REPLICATE 1	[30-MAY-2017]	HK1722119-165		**0.8**				
E7/MF/M/ REPLICATE 2	[30-MAY-2017]	HK1722119-166		**1.4**				
E7/MF/B/ REPLICATE 1	[30-MAY-2017]	HK1722119-167		**0.7**				
E7/MF/B/ REPLICATE 2	[30-MAY-2017]	HK1722119-168		**0.9**				
E6/MF/S/ REPLICATE 1	[30-MAY-2017]	HK1722119-169		**0.9**				
E6/MF/S/ REPLICATE 2	[30-MAY-2017]	HK1722119-170		**1.2**				
E6/MF/M/ REPLICATE 1	[30-MAY-2017]	HK1722119-171		**0.7**				
E6/MF/M/ REPLICATE 2	[30-MAY-2017]	HK1722119-172		**1.3**				
E6/MF/B/ REPLICATE 1	[30-MAY-2017]	HK1722119-173		**1.3**				
E6/MF/B/ REPLICATE 2	[30-MAY-2017]	HK1722119-174		**1.4**				
C1/MF/S/ REPLICATE 1	[30-MAY-2017]	HK1722119-175		**0.8**				

Sub-Matrix: **WATER**

Client sample ID	*Client sampling date / time*	*Laboratory sample ID*	*Compound*	**EA025: Suspended Solids (SS)**				
			LOR Unit	0.5 mg/L				
				EA/ED: Physical and Aggregate Properties				
C1/MF/S/ REPLICATE 2	[30-MAY-2017]	HK1722119-176		**1.0**				
C1/MF/M/ REPLICATE 1	[30-MAY-2017]	HK1722119-177		**0.7**				
C1/MF/M/ REPLICATE 2	[30-MAY-2017]	HK1722119-178		<0.5				
C1/MF/B/ REPLICATE 1	[30-MAY-2017]	HK1722119-179		**0.7**				
C1/MF/B/ REPLICATE 2	[30-MAY-2017]	HK1722119-180		<0.5				

Laboratory Duplicate (DUP) Report

Matrix: **WATER**

Laboratory sample ID	Client 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: 4490087)								
HK1722119-001	L1/ME/S/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	0.9	1.3	36.4
HK1722119-011	B1/ME/B/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	1.0	0.8	24.6
EA/ED: Physical and Aggregate Properties (QC Lot: 4490088)								
HK1722119-021	E1/ME/M/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	1.6	1.1	39.2
HK1722119-031	E3/ME/S/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	<0.5	0.0
EA/ED: Physical and Aggregate Properties (QC Lot: 4490089)								
HK1722119-041	G1/ME/B/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	0.9	1.2	28.6
HK1722119-051	E5/ME/M/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	1.4	1.0	27.4
EA/ED: Physical and Aggregate Properties (QC Lot: 4490090)								
HK1722119-061	G5/ME/S/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	1.1	1.2	11.0
HK1722119-071	G4/ME/B/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	0.9	1.0	13.3
EA/ED: Physical and Aggregate Properties (QC Lot: 4490091)								
HK1722119-081	E6/ME/M/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	<0.5	0.0
HK1722119-091	L1/MF/S/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	1.0	0.8	19.2
EA/ED: Physical and Aggregate Properties (QC Lot: 4490092)								
HK1722119-101	B1/MF/B/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	1.0	1.3	21.7
HK1722119-111	E1/MF/M/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	0.6	0.8	23.7
EA/ED: Physical and Aggregate Properties (QC Lot: 4490093)								
HK1722119-121	E3/MF/S/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	0.7	0.5	28.6
HK1722119-131	G1/MF/B/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	1.4	1.1	26.3
EA/ED: Physical and Aggregate Properties (QC Lot: 4490094)								
HK1722119-141	E5/MF/M/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	2.0	1.9	5.2
HK1722119-151	G5/MF/S/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	1.4	1.5	8.8
EA/ED: Physical and Aggregate Properties (QC Lot: 4490095)								
HK1722119-161	G4/MF/B/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	0.5	0.6	17.4
HK1722119-171	E6/MF/M/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	0.7	0.6	15.4

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: 4490087)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20.0 mg/L	107	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 4490088)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20.0 mg/L	101	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 4490089)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20.0 mg/L	102	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 4490090)											

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: 4490090) - continued											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20.0 mg/L	108	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 4490091)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20.0 mg/L	109	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 4490092)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20.0 mg/L	99.5	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 4490093)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20.0 mg/L	98.5	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 4490094)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20.0 mg/L	106	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 4490095)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20.0 mg/L	92.0	----	85	115	----	----

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	:	**AECOM ASIA COMPANY LIMITED**	*Laboratory*	:	**ALS Technichem (HK) Pty Ltd**	*Page*	: **1 of 10**
Contact	:	**MR Y W FUNG**	*Contact*	:	**Fung Lim Chee, Richard**	*Work Order*	: **HK1722131**
Address	:	**1501-10, 15/F, TOWER 1, GRAND CENTRAL PLAZA, 138 SHATIN RURAL COMMITTEE ROAD, SHATIN NEW TERRITORIES, HONG KONG**	*Address*	:	**11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong**		
E-mail	:	**yw.fung@aecom.com**	*E-mail*	:	**Richard.Fung@alsglobal.com**		
Telephone	:	**+852 3105 8544**	*Telephone*	:	**+852 2610 1044**		
Facsimile	:	**----**	*Facsimile*	:	**+852 2610 2021**		
Project	:	**WATER QUALITY MONITORING FOR ASIA-AFRICA-EUROPE-1 CABLE SYSTEM (AAE-1) AT CAPE D AGUILAR HONG KONG**	*Quote number*	:	**----**	*Date received*	: **01-JUN-2017**
Order number	:	**----**				*Date of issue*	: **13-JUN-2017**
C-O-C number	:	**----**				*No. of samples*	- *Received* : **180**
Site	:	**----**					- *Analysed* : **180**

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	**General Manager**	**Inorganics**

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK1722131 supersedes any previous reports with this reference. Testing period is from 01-JUN-2017 to 12-JUN-2017. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for process purposes. Abbreviations: CAS number = Chemical Abstract Services number. LOR = Limit of reporting.

Specific Comments for Work Order HK1722131 :

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.
Sample(s) were picked up from client by ALS Technichem (HK) staff in chilled condition.
Water sample(s) analysed and reported on an as received basis.

Analytical Results

Sub-Matrix: **WATER**

Client sample ID	Client sampling date / time	Laboratory sample ID	Compound	EA025: Suspended Solids (SS)				
			LOR Unit	0.5 mg/L				
				EA/ED: Physical and Aggregate Properties				
L1/ME/S/ REPLICATE 1	[01-JUN-2017]	HK1722131-001		**2.2**				
L1/ME/S/ REPLICATE 2	[01-JUN-2017]	HK1722131-002		**1.8**				
L1/ME/M/ REPLICATE 1	[01-JUN-2017]	HK1722131-003		**3.8**				
L1/ME/M/ REPLICATE 2	[01-JUN-2017]	HK1722131-004		**2.6**				
L1/ME/B/ REPLICATE 1	[01-JUN-2017]	HK1722131-005		**3.5**				
L1/ME/B/ REPLICATE 2	[01-JUN-2017]	HK1722131-006		**2.7**				
B1/ME/S/ REPLICATE 1	[01-JUN-2017]	HK1722131-007		**1.9**				
B1/ME/S/ REPLICATE 2	[01-JUN-2017]	HK1722131-008		**1.0**				
B1/ME/M/ REPLICATE 1	[01-JUN-2017]	HK1722131-009		**2.0**				
B1/ME/M/ REPLICATE 2	[01-JUN-2017]	HK1722131-010		**2.4**				
B1/ME/B/ REPLICATE 1	[01-JUN-2017]	HK1722131-011		**2.3**				
B1/ME/B/ REPLICATE 2	[01-JUN-2017]	HK1722131-012		**1.1**				
G3/ME/S/ REPLICATE 1	[01-JUN-2017]	HK1722131-013		**3.2**				
G3/ME/S/ REPLICATE 2	[01-JUN-2017]	HK1722131-014		**2.4**				
G3/ME/M/ REPLICATE 1	[01-JUN-2017]	HK1722131-015		**2.9**				
G3/ME/M/ REPLICATE 2	[01-JUN-2017]	HK1722131-016		**2.0**				
G3/ME/B/ REPLICATE 1	[01-JUN-2017]	HK1722131-017		**4.7**				
G3/ME/B/ REPLICATE 2	[01-JUN-2017]	HK1722131-018		**6.4**				
E1/ME/S/ REPLICATE 1	[01-JUN-2017]	HK1722131-019		**1.5**				
E1/ME/S/ REPLICATE 2	[01-JUN-2017]	HK1722131-020		**0.9**				
E1/ME/M/ REPLICATE 1	[01-JUN-2017]	HK1722131-021		**0.8**				
E1/ME/M/ REPLICATE 2	[01-JUN-2017]	HK1722131-022		**1.2**				
E1/ME/B/ REPLICATE 1	[01-JUN-2017]	HK1722131-023		**1.5**				
E1/ME/B/ REPLICATE 2	[01-JUN-2017]	HK1722131-024		**2.5**				
E2/ME/S/ REPLICATE 1	[01-JUN-2017]	HK1722131-025		**1.1**				
E2/ME/S/ REPLICATE 2	[01-JUN-2017]	HK1722131-026		**1.8**				
E2/ME/M/ REPLICATE 1	[01-JUN-2017]	HK1722131-027		**1.3**				
E2/ME/M/ REPLICATE 2	[01-JUN-2017]	HK1722131-028		**2.5**				
E2/ME/B/ REPLICATE 1	[01-JUN-2017]	HK1722131-029		**1.2**				
E2/ME/B/ REPLICATE 2	[01-JUN-2017]	HK1722131-030		**1.6**				
E3/ME/S/ REPLICATE 1	[01-JUN-2017]	HK1722131-031		**2.4**				
E3/ME/S/ REPLICATE 2	[01-JUN-2017]	HK1722131-032		**1.2**				
E3/ME/M/ REPLICATE 1	[01-JUN-2017]	HK1722131-033		**0.5**				
E3/ME/M/ REPLICATE 2	[01-JUN-2017]	HK1722131-034		**0.8**				
E3/ME/B/ REPLICATE 1	[01-JUN-2017]	HK1722131-035		**1.2**				

Sub-Matrix: **WATER**

Client sample ID	*Client sampling date / time*	*Laboratory sample ID*	*Compound*	**EA025: Suspended Solids (SS)**				
			LOR Unit	0.5 mg/L				
				EA/ED: Physical and Aggregate Properties				
E3/ME/B/ REPLICATE 2	[01-JUN-2017]	HK1722131-036		**0.5**				
G1/ME/S/ REPLICATE 1	[01-JUN-2017]	HK1722131-037		**1.7**				
G1/ME/S/ REPLICATE 2	[01-JUN-2017]	HK1722131-038		**1.7**				
G1/ME/M/ REPLICATE 1	[01-JUN-2017]	HK1722131-039		**0.8**				
G1/ME/M/ REPLICATE 2	[01-JUN-2017]	HK1722131-040		**0.7**				
G1/ME/B/ REPLICATE 1	[01-JUN-2017]	HK1722131-041		**1.0**				
G1/ME/B/ REPLICATE 2	[01-JUN-2017]	HK1722131-042		**0.6**				
G2/ME/S/ REPLICATE 1	[01-JUN-2017]	HK1722131-043		**0.8**				
G2/ME/S/ REPLICATE 2	[01-JUN-2017]	HK1722131-044		<0.5				
G2/ME/M/ REPLICATE 1	[01-JUN-2017]	HK1722131-045		**0.6**				
G2/ME/M/ REPLICATE 2	[01-JUN-2017]	HK1722131-046		**1.4**				
G2/ME/B/ REPLICATE 1	[01-JUN-2017]	HK1722131-047		**5.5**				
G2/ME/B/ REPLICATE 2	[01-JUN-2017]	HK1722131-048		**3.6**				
E5/ME/S/ REPLICATE 1	[01-JUN-2017]	HK1722131-049		**0.8**				
E5/ME/S/ REPLICATE 2	[01-JUN-2017]	HK1722131-050		<0.5				
E5/ME/M/ REPLICATE 1	[01-JUN-2017]	HK1722131-051		**0.8**				
E5/ME/M/ REPLICATE 2	[01-JUN-2017]	HK1722131-052		**1.4**				
E5/ME/B/ REPLICATE 1	[01-JUN-2017]	HK1722131-053		**1.4**				
E5/ME/B/ REPLICATE 2	[01-JUN-2017]	HK1722131-054		**0.7**				
E4/ME/S/ REPLICATE 1	[01-JUN-2017]	HK1722131-055		**0.7**				
E4/ME/S/ REPLICATE 2	[01-JUN-2017]	HK1722131-056		<0.5				
E4/ME/M/ REPLICATE 1	[01-JUN-2017]	HK1722131-057		**1.2**				
E4/ME/M/ REPLICATE 2	[01-JUN-2017]	HK1722131-058		**0.8**				
E4/ME/B/ REPLICATE 1	[01-JUN-2017]	HK1722131-059		**1.6**				
E4/ME/B/ REPLICATE 2	[01-JUN-2017]	HK1722131-060		**0.8**				
G5/ME/S/ REPLICATE 1	[01-JUN-2017]	HK1722131-061		**1.4**				
G5/ME/S/ REPLICATE 2	[01-JUN-2017]	HK1722131-062		**2.7**				
G5/ME/M/ REPLICATE 1	[01-JUN-2017]	HK1722131-063		**2.7**				
G5/ME/M/ REPLICATE 2	[01-JUN-2017]	HK1722131-064		**4.0**				
G5/ME/B/ REPLICATE 1	[01-JUN-2017]	HK1722131-065		**2.4**				
G5/ME/B/ REPLICATE 2	[01-JUN-2017]	HK1722131-066		**3.0**				
G4/ME/S/ REPLICATE 1	[01-JUN-2017]	HK1722131-067		**0.7**				
G4/ME/S/ REPLICATE 2	[01-JUN-2017]	HK1722131-068		**1.0**				
G4/ME/M/ REPLICATE 1	[01-JUN-2017]	HK1722131-069		<0.5				
G4/ME/M/ REPLICATE 2	[01-JUN-2017]	HK1722131-070		**0.6**				

Sub-Matrix: **WATER**

Client sample ID	*Client sampling date / time*	*Laboratory sample ID*	*Compound*	**EA025: Suspended Solids (SS)**				
			LOR Unit	0.5 mg/L				
				EA/ED: Physical and Aggregate Properties				
G4/ME/B/ REPLICATE 1	[01-JUN-2017]	HK1722131-071		**1.0**				
G4/ME/B/ REPLICATE 2	[01-JUN-2017]	HK1722131-072		**1.2**				
E7/ME/S/ REPLICATE 1	[01-JUN-2017]	HK1722131-073		**1.5**				
E7/ME/S/ REPLICATE 2	[01-JUN-2017]	HK1722131-074		**3.0**				
E7/ME/M/ REPLICATE 1	[01-JUN-2017]	HK1722131-075		**1.5**				
E7/ME/M/ REPLICATE 2	[01-JUN-2017]	HK1722131-076		**2.0**				
E7/ME/B/ REPLICATE 1	[01-JUN-2017]	HK1722131-077		**1.0**				
E7/ME/B/ REPLICATE 2	[01-JUN-2017]	HK1722131-078		**1.1**				
E6/ME/S/ REPLICATE 1	[01-JUN-2017]	HK1722131-079		**1.3**				
E6/ME/S/ REPLICATE 2	[01-JUN-2017]	HK1722131-080		**0.7**				
E6/ME/M/ REPLICATE 1	[01-JUN-2017]	HK1722131-081		**1.0**				
E6/ME/M/ REPLICATE 2	[01-JUN-2017]	HK1722131-082		**2.8**				
E6/ME/B/ REPLICATE 1	[01-JUN-2017]	HK1722131-083		**2.6**				
E6/ME/B/ REPLICATE 2	[01-JUN-2017]	HK1722131-084		**2.0**				
C1/ME/S/ REPLICATE 1	[01-JUN-2017]	HK1722131-085		**3.4**				
C1/ME/S/ REPLICATE 2	[01-JUN-2017]	HK1722131-086		**2.8**				
C1/ME/M/ REPLICATE 1	[01-JUN-2017]	HK1722131-087		**1.4**				
C1/ME/M/ REPLICATE 2	[01-JUN-2017]	HK1722131-088		**2.6**				
C1/ME/B/ REPLICATE 1	[01-JUN-2017]	HK1722131-089		**1.3**				
C1/ME/B/ REPLICATE 2	[01-JUN-2017]	HK1722131-090		**2.1**				
L1/MF/S/ REPLICATE 1	[01-JUN-2017]	HK1722131-091		**2.4**				
L1/MF/S/ REPLICATE 2	[01-JUN-2017]	HK1722131-092		**1.6**				
L1/MF/M/ REPLICATE 1	[01-JUN-2017]	HK1722131-093		**1.9**				
L1/MF/M/ REPLICATE 2	[01-JUN-2017]	HK1722131-094		**0.8**				
L1/MF/B/ REPLICATE 1	[01-JUN-2017]	HK1722131-095		**2.1**				
L1/MF/B/ REPLICATE 2	[01-JUN-2017]	HK1722131-096		**1.7**				
B1/MF/S/ REPLICATE 1	[01-JUN-2017]	HK1722131-097		**1.9**				
B1/MF/S/ REPLICATE 2	[01-JUN-2017]	HK1722131-098		**2.9**				
B1/MF/M/ REPLICATE 1	[01-JUN-2017]	HK1722131-099		**2.7**				
B1/MF/M/ REPLICATE 2	[01-JUN-2017]	HK1722131-100		**1.3**				
B1/MF/B/ REPLICATE 1	[01-JUN-2017]	HK1722131-101		**1.3**				
B1/MF/B/ REPLICATE 2	[01-JUN-2017]	HK1722131-102		**0.8**				
G3/MF/S/ REPLICATE 1	[01-JUN-2017]	HK1722131-103		<0.5				
G3/MF/S/ REPLICATE 2	[01-JUN-2017]	HK1722131-104		<0.5				
G3/MF/M/ REPLICATE 1	[01-JUN-2017]	HK1722131-105		**1.5**				

Sub-Matrix: **WATER**

Client sample ID	*Client sampling date / time*	*Laboratory sample ID*	*Compound*	**EA025: Suspended Solids (SS)**				
			LOR Unit	0.5 mg/L				
				EA/ED: Physical and Aggregate Properties				
G3/MF/M/ REPLICATE 2	[01-JUN-2017]	HK1722131-106		**3.0**				
G3/MF/B/ REPLICATE 1	[01-JUN-2017]	HK1722131-107		**0.9**				
G3/MF/B/ REPLICATE 2	[01-JUN-2017]	HK1722131-108		**1.0**				
E1/MF/S/ REPLICATE 1	[01-JUN-2017]	HK1722131-109		**0.6**				
E1/MF/S/ REPLICATE 2	[01-JUN-2017]	HK1722131-110		<0.5				
E1/MF/M/ REPLICATE 1	[01-JUN-2017]	HK1722131-111		**2.1**				
E1/MF/M/ REPLICATE 2	[01-JUN-2017]	HK1722131-112		**3.1**				
E1/MF/B/ REPLICATE 1	[01-JUN-2017]	HK1722131-113		**1.7**				
E1/MF/B/ REPLICATE 2	[01-JUN-2017]	HK1722131-114		**1.2**				
E2/MF/S/ REPLICATE 1	[01-JUN-2017]	HK1722131-115		**2.2**				
E2/MF/S/ REPLICATE 2	[01-JUN-2017]	HK1722131-116		**1.9**				
E2/MF/M/ REPLICATE 1	[01-JUN-2017]	HK1722131-117		**1.0**				
E2/MF/M/ REPLICATE 2	[01-JUN-2017]	HK1722131-118		**0.7**				
E2/MF/B/ REPLICATE 1	[01-JUN-2017]	HK1722131-119		**1.9**				
E2/MF/B/ REPLICATE 2	[01-JUN-2017]	HK1722131-120		**1.3**				
E3/MF/S/ REPLICATE 1	[01-JUN-2017]	HK1722131-121		**1.4**				
E3/MF/S/ REPLICATE 2	[01-JUN-2017]	HK1722131-122		**0.7**				
E3/MF/M/ REPLICATE 1	[01-JUN-2017]	HK1722131-123		**7.0**				
E3/MF/M/ REPLICATE 2	[01-JUN-2017]	HK1722131-124		**4.7**				
E3/MF/B/ REPLICATE 1	[01-JUN-2017]	HK1722131-125		**3.0**				
E3/MF/B/ REPLICATE 2	[01-JUN-2017]	HK1722131-126		**5.3**				
G1/MF/S/ REPLICATE 1	[01-JUN-2017]	HK1722131-127		**2.7**				
G1/MF/S/ REPLICATE 2	[01-JUN-2017]	HK1722131-128		**4.7**				
G1/MF/M/ REPLICATE 1	[01-JUN-2017]	HK1722131-129		**2.7**				
G1/MF/M/ REPLICATE 2	[01-JUN-2017]	HK1722131-130		**5.0**				
G1/MF/B/ REPLICATE 1	[01-JUN-2017]	HK1722131-131		**1.6**				
G1/MF/B/ REPLICATE 2	[01-JUN-2017]	HK1722131-132		**1.7**				
G2/MF/S/ REPLICATE 1	[01-JUN-2017]	HK1722131-133		**2.7**				
G2/MF/S/ REPLICATE 2	[01-JUN-2017]	HK1722131-134		**1.4**				
G2/MF/M/ REPLICATE 1	[01-JUN-2017]	HK1722131-135		**2.0**				
G2/MF/M/ REPLICATE 2	[01-JUN-2017]	HK1722131-136		**2.8**				
G2/MF/B/ REPLICATE 1	[01-JUN-2017]	HK1722131-137		**1.6**				
G2/MF/B/ REPLICATE 2	[01-JUN-2017]	HK1722131-138		**0.9**				
E5/MF/S/ REPLICATE 1	[01-JUN-2017]	HK1722131-139		**4.2**				
E5/MF/S/ REPLICATE 2	[01-JUN-2017]	HK1722131-140		**5.4**				

Sub-Matrix: **WATER**

Client sample ID	*Client sampling date / time*	*Laboratory sample ID*	*Compound*	**EA025: Suspended Solids (SS)**				
			LOR Unit	0.5 mg/L				
				EA/ED: Physical and Aggregate Properties				
E5/MF/M/ REPLICATE 1	[01-JUN-2017]	HK1722131-141		**0.7**				
E5/MF/M/ REPLICATE 2	[01-JUN-2017]	HK1722131-142		**1.8**				
E5/MF/B/ REPLICATE 1	[01-JUN-2017]	HK1722131-143		**1.8**				
E5/MF/B/ REPLICATE 2	[01-JUN-2017]	HK1722131-144		**1.0**				
E4/MF/S/ REPLICATE 1	[01-JUN-2017]	HK1722131-145		**2.0**				
E4/MF/S/ REPLICATE 2	[01-JUN-2017]	HK1722131-146		**1.0**				
E4/MF/M/ REPLICATE 1	[01-JUN-2017]	HK1722131-147		**1.4**				
E4/MF/M/ REPLICATE 2	[01-JUN-2017]	HK1722131-148		**3.0**				
E4/MF/B/ REPLICATE 1	[01-JUN-2017]	HK1722131-149		**1.3**				
E4/MF/B/ REPLICATE 2	[01-JUN-2017]	HK1722131-150		**1.9**				
G5/MF/S/ REPLICATE 1	[01-JUN-2017]	HK1722131-151		**0.8**				
G5/MF/S/ REPLICATE 2	[01-JUN-2017]	HK1722131-152		**0.8**				
G5/MF/M/ REPLICATE 1	[01-JUN-2017]	HK1722131-153		**3.0**				
G5/MF/M/ REPLICATE 2	[01-JUN-2017]	HK1722131-154		**1.8**				
G5/MF/B/ REPLICATE 1	[01-JUN-2017]	HK1722131-155		**1.2**				
G5/MF/B/ REPLICATE 2	[01-JUN-2017]	HK1722131-156		**2.4**				
G4/MF/S/ REPLICATE 1	[01-JUN-2017]	HK1722131-157		**1.2**				
G4/MF/S/ REPLICATE 2	[01-JUN-2017]	HK1722131-158		**2.0**				
G4/MF/M/ REPLICATE 1	[01-JUN-2017]	HK1722131-159		**0.6**				
G4/MF/M/ REPLICATE 2	[01-JUN-2017]	HK1722131-160		**0.6**				
G4/MF/B/ REPLICATE 1	[01-JUN-2017]	HK1722131-161		**0.5**				
G4/MF/B/ REPLICATE 2	[01-JUN-2017]	HK1722131-162		**0.6**				
E7/MF/S/ REPLICATE 1	[01-JUN-2017]	HK1722131-163		<0.5				
E7/MF/S/ REPLICATE 2	[01-JUN-2017]	HK1722131-164		**0.8**				
E7/MF/M/ REPLICATE 1	[01-JUN-2017]	HK1722131-165		**0.7**				
E7/MF/M/ REPLICATE 2	[01-JUN-2017]	HK1722131-166		<0.5				
E7/MF/B/ REPLICATE 1	[01-JUN-2017]	HK1722131-167		**1.0**				
E7/MF/B/ REPLICATE 2	[01-JUN-2017]	HK1722131-168		**0.6**				
E6/MF/S/ REPLICATE 1	[01-JUN-2017]	HK1722131-169		**1.2**				
E6/MF/S/ REPLICATE 2	[01-JUN-2017]	HK1722131-170		**1.2**				
E6/MF/M/ REPLICATE 1	[01-JUN-2017]	HK1722131-171		**1.8**				
E6/MF/M/ REPLICATE 2	[01-JUN-2017]	HK1722131-172		**3.4**				
E6/MF/B/ REPLICATE 1	[01-JUN-2017]	HK1722131-173		**1.4**				
E6/MF/B/ REPLICATE 2	[01-JUN-2017]	HK1722131-174		**3.0**				
C1/MF/S/ REPLICATE 1	[01-JUN-2017]	HK1722131-175		**1.9**				

Sub-Matrix: **WATER**

Client sample ID	*Client sampling date / time*	*Laboratory sample ID*	*Compound*	**EA025: Suspended Solids (SS)**				
			LOR Unit	0.5 mg/L				
				EA/ED: Physical and Aggregate Properties				
C1/MF/S/ REPLICATE 2	[01-JUN-2017]	HK1722131-176		**1.7**				
C1/MF/M/ REPLICATE 1	[01-JUN-2017]	HK1722131-177		**1.6**				
C1/MF/M/ REPLICATE 2	[01-JUN-2017]	HK1722131-178		**2.4**				
C1/MF/B/ REPLICATE 1	[01-JUN-2017]	HK1722131-179		**1.7**				
C1/MF/B/ REPLICATE 2	[01-JUN-2017]	HK1722131-180		**1.7**				

Laboratory Duplicate (DUP) Report

Matrix: **WATER**

Laboratory sample ID	Client 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: 4491574)								
HK1722131-001	L1/ME/S/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	2.2	2.9	25.2
HK1722131-011	B1/ME/B/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	2.3	3.1	30.7
EA/ED: Physical and Aggregate Properties (QC Lot: 4491575)								
HK1722131-021	E1/ME/M/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	0.8	0.6	14.3
HK1722131-031	E3/ME/S/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	2.4	1.5	45.8
EA/ED: Physical and Aggregate Properties (QC Lot: 4491576)								
HK1722131-041	G1/ME/B/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	1.0	0.8	31.0
HK1722131-051	E5/ME/M/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	0.8	0.8	0.0
EA/ED: Physical and Aggregate Properties (QC Lot: 4491577)								
HK1722131-061	G5/ME/S/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	1.4	1.1	28.0
HK1722131-071	G4/ME/B/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	1.0	1.4	29.2
EA/ED: Physical and Aggregate Properties (QC Lot: 4491578)								
HK1722131-081	E6/ME/M/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	1.0	1.0	0.0
HK1722131-091	L1/MF/S/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	2.4	3.3	31.6
EA/ED: Physical and Aggregate Properties (QC Lot: 4491579)								
HK1722131-101	B1/MF/B/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	1.3	1.7	24.8
HK1722131-111	E1/MF/M/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	2.1	2.8	27.7
EA/ED: Physical and Aggregate Properties (QC Lot: 4491580)								
HK1722131-121	E3/MF/S/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	1.4	1.0	36.7
HK1722131-131	G1/MF/B/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	1.6	1.3	20.3
EA/ED: Physical and Aggregate Properties (QC Lot: 4491581)								
HK1722131-141	E5/MF/M/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	0.7	0.8	0.0
HK1722131-151	G5/MF/S/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	0.8	0.7	0.0
EA/ED: Physical and Aggregate Properties (QC Lot: 4491582)								
HK1722131-161	G4/MF/B/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	0.5	0.5	0.0
HK1722131-171	E6/MF/M/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	1.8	2.7	42.7

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: 4491574)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20.0 mg/L	104	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 4491575)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20.0 mg/L	109	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 4491576)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20.0 mg/L	85.5	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 4491577)											

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: 4491577) - continued											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20.0 mg/L	101	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 4491578)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20.0 mg/L	112	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 4491579)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20.0 mg/L	104	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 4491580)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20.0 mg/L	112	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 4491581)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20.0 mg/L	91.0	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 4491582)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20.0 mg/L	86.0	----	85	115	----	----

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	:	**AECOM ASIA COMPANY LIMITED**	*Laboratory*	:	**ALS Technichem (HK) Pty Ltd**	*Page*	: **1 of 10**
Contact	:	**MR Y W FUNG**	*Contact*	:	**Fung Lim Chee, Richard**	*Work Order*	: **HK1722136**
Address	:	**1501-10, 15/F, TOWER 1, GRAND CENTRAL PLAZA, 138 SHATIN RURAL COMMITTEE ROAD, SHATIN NEW TERRITORIES, HONG KONG**	*Address*	:	**11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong**		
E-mail	:	**yw.fung@aecom.com**	*E-mail*	:	**Richard.Fung@alsglobal.com**		
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Facsimile	:	**----**	*Facsimile*	:	**+852 2610 2021**		
Project	:	**WATER QUALITY MONITORING FOR ASIA-AFRICA-EUROPE-1 CABLE SYSTEM (AAE-1) AT CAPE D AGUILAR HONG KONG**	*Quote number*	:	**----**	*Date received*	: **03-JUN-2017**
Order number	:	**----**				*Date of issue*	: **15-JUN-2017**
C-O-C number	:	**----**				*No. of samples*	- *Received* : **180**
Site	:	**----**					- *Analysed* : **180**

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	**General Manager**	**Inorganics**

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK1722136 supersedes any previous reports with this reference. Testing period is from 03-JUN-2017 to 13-JUN-2017. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for process purposes. Abbreviations: CAS number = Chemical Abstract Services number. LOR = Limit of reporting.

Specific Comments for Work Order HK1722136 :

Sample(s) were picked up from client by ALS Technichem (HK) staff in chilled condition.

Water sample(s) analysed and reported on an as received basis.

Analytical Results

Sub-Matrix: **WATER**

Client sample ID	Client sampling date / time	Laboratory sample ID	Compound	EA025: Suspended Solids (SS)				
			LOR Unit	0.5 mg/L				
				EA/ED: Physical and Aggregate Properties				
L1/ME/S/ REPLICATE 1	[03-JUN-2017]	HK1722136-001		**5.7**				
L1/ME/S/ REPLICATE 2	[03-JUN-2017]	HK1722136-002		**6.0**				
L1/ME/M/ REPLICATE 1	[03-JUN-2017]	HK1722136-003		**4.6**				
L1/ME/M/ REPLICATE 2	[03-JUN-2017]	HK1722136-004		**4.0**				
L1/ME/B/ REPLICATE 1	[03-JUN-2017]	HK1722136-005		**3.5**				
L1/ME/B/ REPLICATE 2	[03-JUN-2017]	HK1722136-006		**5.4**				
B1/ME/S/ REPLICATE 1	[03-JUN-2017]	HK1722136-007		**4.6**				
B1/ME/S/ REPLICATE 2	[03-JUN-2017]	HK1722136-008		**6.9**				
B1/ME/M/ REPLICATE 1	[03-JUN-2017]	HK1722136-009		**5.0**				
B1/ME/M/ REPLICATE 2	[03-JUN-2017]	HK1722136-010		**7.4**				
B1/ME/B/ REPLICATE 1	[03-JUN-2017]	HK1722136-011		**6.2**				
B1/ME/B/ REPLICATE 2	[03-JUN-2017]	HK1722136-012		**6.7**				
G3/ME/S/ REPLICATE 1	[03-JUN-2017]	HK1722136-013		**6.4**				
G3/ME/S/ REPLICATE 2	[03-JUN-2017]	HK1722136-014		**4.0**				
G3/ME/M/ REPLICATE 1	[03-JUN-2017]	HK1722136-015		**3.7**				
G3/ME/M/ REPLICATE 2	[03-JUN-2017]	HK1722136-016		**2.7**				
G3/ME/B/ REPLICATE 1	[03-JUN-2017]	HK1722136-017		**5.4**				
G3/ME/B/ REPLICATE 2	[03-JUN-2017]	HK1722136-018		**3.3**				
E1/ME/S/ REPLICATE 1	[03-JUN-2017]	HK1722136-019		**5.1**				
E1/ME/S/ REPLICATE 2	[03-JUN-2017]	HK1722136-020		**2.7**				
E1/ME/M/ REPLICATE 1	[03-JUN-2017]	HK1722136-021		**4.8**				
E1/ME/M/ REPLICATE 2	[03-JUN-2017]	HK1722136-022		**3.2**				
E1/ME/B/ REPLICATE 1	[03-JUN-2017]	HK1722136-023		**7.0**				
E1/ME/B/ REPLICATE 2	[03-JUN-2017]	HK1722136-024		**6.4**				
E2/ME/S/ REPLICATE 1	[03-JUN-2017]	HK1722136-025		**6.6**				
E2/ME/S/ REPLICATE 2	[03-JUN-2017]	HK1722136-026		**5.0**				
E2/ME/M/ REPLICATE 1	[03-JUN-2017]	HK1722136-027		**3.6**				
E2/ME/M/ REPLICATE 2	[03-JUN-2017]	HK1722136-028		**6.4**				
E2/ME/B/ REPLICATE 1	[03-JUN-2017]	HK1722136-029		**5.5**				
E2/ME/B/ REPLICATE 2	[03-JUN-2017]	HK1722136-030		**7.2**				
E3/ME/S/ REPLICATE 1	[03-JUN-2017]	HK1722136-031		**4.7**				
E3/ME/S/ REPLICATE 2	[03-JUN-2017]	HK1722136-032		**7.2**				
E3/ME/M/ REPLICATE 1	[03-JUN-2017]	HK1722136-033		**4.0**				
E3/ME/M/ REPLICATE 2	[03-JUN-2017]	HK1722136-034		**3.9**				
E3/ME/B/ REPLICATE 1	[03-JUN-2017]	HK1722136-035		**4.2**				

Sub-Matrix: **WATER**

Client sample ID	Client sampling date / time	Laboratory sample ID	Compound	EA025: Suspended Solids (SS)				
			LOR Unit	0.5 mg/L				
				EA/ED: Physical and Aggregate Properties				
E3/ME/B/ REPLICATE 2	[03-JUN-2017]	HK1722136-036		**3.1**				
G1/ME/S/ REPLICATE 1	[03-JUN-2017]	HK1722136-037		**2.9**				
G1/ME/S/ REPLICATE 2	[03-JUN-2017]	HK1722136-038		**5.3**				
G1/ME/M/ REPLICATE 1	[03-JUN-2017]	HK1722136-039		**5.6**				
G1/ME/M/ REPLICATE 2	[03-JUN-2017]	HK1722136-040		**4.6**				
G1/ME/B/ REPLICATE 1	[03-JUN-2017]	HK1722136-041		**2.6**				
G1/ME/B/ REPLICATE 2	[03-JUN-2017]	HK1722136-042		**2.9**				
G2/ME/S/ REPLICATE 1	[03-JUN-2017]	HK1722136-043		**2.1**				
G2/ME/S/ REPLICATE 2	[03-JUN-2017]	HK1722136-044		**2.6**				
G2/ME/M/ REPLICATE 1	[03-JUN-2017]	HK1722136-045		**2.1**				
G2/ME/M/ REPLICATE 2	[03-JUN-2017]	HK1722136-046		**2.4**				
G2/ME/B/ REPLICATE 1	[03-JUN-2017]	HK1722136-047		**3.7**				
G2/ME/B/ REPLICATE 2	[03-JUN-2017]	HK1722136-048		**5.8**				
E5/ME/S/ REPLICATE 1	[03-JUN-2017]	HK1722136-049		**2.6**				
E5/ME/S/ REPLICATE 2	[03-JUN-2017]	HK1722136-050		**3.8**				
E5/ME/M/ REPLICATE 1	[03-JUN-2017]	HK1722136-051		**3.1**				
E5/ME/M/ REPLICATE 2	[03-JUN-2017]	HK1722136-052		**2.6**				
E5/ME/B/ REPLICATE 1	[03-JUN-2017]	HK1722136-053		**2.8**				
E5/ME/B/ REPLICATE 2	[03-JUN-2017]	HK1722136-054		**4.6**				
E4/ME/S/ REPLICATE 1	[03-JUN-2017]	HK1722136-055		**7.4**				
E4/ME/S/ REPLICATE 2	[03-JUN-2017]	HK1722136-056		**6.3**				
E4/ME/M/ REPLICATE 1	[03-JUN-2017]	HK1722136-057		**4.6**				
E4/ME/M/ REPLICATE 2	[03-JUN-2017]	HK1722136-058		**3.9**				
E4/ME/B/ REPLICATE 1	[03-JUN-2017]	HK1722136-059		**4.4**				
E4/ME/B/ REPLICATE 2	[03-JUN-2017]	HK1722136-060		**2.6**				
G5/ME/S/ REPLICATE 1	[03-JUN-2017]	HK1722136-061		**6.8**				
G5/ME/S/ REPLICATE 2	[03-JUN-2017]	HK1722136-062		**3.6**				
G5/ME/M/ REPLICATE 1	[03-JUN-2017]	HK1722136-063		**5.3**				
G5/ME/M/ REPLICATE 2	[03-JUN-2017]	HK1722136-064		**3.5**				
G5/ME/B/ REPLICATE 1	[03-JUN-2017]	HK1722136-065		**3.4**				
G5/ME/B/ REPLICATE 2	[03-JUN-2017]	HK1722136-066		**2.1**				
G4/ME/S/ REPLICATE 1	[03-JUN-2017]	HK1722136-067		**4.4**				
G4/ME/S/ REPLICATE 2	[03-JUN-2017]	HK1722136-068		**2.7**				
G4/ME/M/ REPLICATE 1	[03-JUN-2017]	HK1722136-069		**2.8**				
G4/ME/M/ REPLICATE 2	[03-JUN-2017]	HK1722136-070		**4.7**				

Sub-Matrix: **WATER**

Client sample ID	*Client sampling date / time*	*Laboratory sample ID*	*Compound*	**EA025: Suspended Solids (SS)**				
			LOR Unit	0.5 mg/L				
				EA/ED: Physical and Aggregate Properties				
G4/ME/B/ REPLICATE 1	[03-JUN-2017]	HK1722136-071		**6.2**				
G4/ME/B/ REPLICATE 2	[03-JUN-2017]	HK1722136-072		**3.9**				
E7/ME/S/ REPLICATE 1	[03-JUN-2017]	HK1722136-073		**1.5**				
E7/ME/S/ REPLICATE 2	[03-JUN-2017]	HK1722136-074		**2.4**				
E7/ME/M/ REPLICATE 1	[03-JUN-2017]	HK1722136-075		**4.5**				
E7/ME/M/ REPLICATE 2	[03-JUN-2017]	HK1722136-076		**2.6**				
E7/ME/B/ REPLICATE 1	[03-JUN-2017]	HK1722136-077		**2.4**				
E7/ME/B/ REPLICATE 2	[03-JUN-2017]	HK1722136-078		**3.5**				
E6/ME/S/ REPLICATE 1	[03-JUN-2017]	HK1722136-079		**3.1**				
E6/ME/S/ REPLICATE 2	[03-JUN-2017]	HK1722136-080		**3.9**				
E6/ME/M/ REPLICATE 1	[03-JUN-2017]	HK1722136-081		**3.9**				
E6/ME/M/ REPLICATE 2	[03-JUN-2017]	HK1722136-082		**6.1**				
E6/ME/B/ REPLICATE 1	[03-JUN-2017]	HK1722136-083		**4.6**				
E6/ME/B/ REPLICATE 2	[03-JUN-2017]	HK1722136-084		**4.0**				
C1/ME/S/ REPLICATE 1	[03-JUN-2017]	HK1722136-085		**6.5**				
C1/ME/S/ REPLICATE 2	[03-JUN-2017]	HK1722136-086		**7.6**				
C1/ME/M/ REPLICATE 1	[03-JUN-2017]	HK1722136-087		**4.6**				
C1/ME/M/ REPLICATE 2	[03-JUN-2017]	HK1722136-088		**6.7**				
C1/ME/B/ REPLICATE 1	[03-JUN-2017]	HK1722136-089		**3.6**				
C1/ME/B/ REPLICATE 2	[03-JUN-2017]	HK1722136-090		**5.8**				
L1/MF/S/ REPLICATE 1	[03-JUN-2017]	HK1722136-091		**4.1**				
L1/MF/S/ REPLICATE 2	[03-JUN-2017]	HK1722136-092		**6.5**				
L1/MF/M/ REPLICATE 1	[03-JUN-2017]	HK1722136-093		**7.4**				
L1/MF/M/ REPLICATE 2	[03-JUN-2017]	HK1722136-094		**5.0**				
L1/MF/B/ REPLICATE 1	[03-JUN-2017]	HK1722136-095		**8.2**				
L1/MF/B/ REPLICATE 2	[03-JUN-2017]	HK1722136-096		**5.5**				
B1/MF/S/ REPLICATE 1	[03-JUN-2017]	HK1722136-097		**4.8**				
B1/MF/S/ REPLICATE 2	[03-JUN-2017]	HK1722136-098		**2.9**				
B1/MF/M/ REPLICATE 1	[03-JUN-2017]	HK1722136-099		**4.1**				
B1/MF/M/ REPLICATE 2	[03-JUN-2017]	HK1722136-100		**2.6**				
B1/MF/B/ REPLICATE 1	[03-JUN-2017]	HK1722136-101		**3.7**				
B1/MF/B/ REPLICATE 2	[03-JUN-2017]	HK1722136-102		**2.7**				
G3/MF/S/ REPLICATE 1	[03-JUN-2017]	HK1722136-103		**5.5**				
G3/MF/S/ REPLICATE 2	[03-JUN-2017]	HK1722136-104		**4.6**				
G3/MF/M/ REPLICATE 1	[03-JUN-2017]	HK1722136-105		**7.4**				

Sub-Matrix: **WATER**

Client sample ID	*Client sampling date / time*	*Laboratory sample ID*	*Compound*	**EA025: Suspended Solids (SS)**				
			LOR Unit	0.5 mg/L				
				EA/ED: Physical and Aggregate Properties				
G3/MF/M/ REPLICATE 2	[03-JUN-2017]	HK1722136-106		**5.3**				
G3/MF/B/ REPLICATE 1	[03-JUN-2017]	HK1722136-107		**3.5**				
G3/MF/B/ REPLICATE 2	[03-JUN-2017]	HK1722136-108		**5.6**				
E1/MF/S/ REPLICATE 1	[03-JUN-2017]	HK1722136-109		**2.8**				
E1/MF/S/ REPLICATE 2	[03-JUN-2017]	HK1722136-110		**2.4**				
E1/MF/M/ REPLICATE 1	[03-JUN-2017]	HK1722136-111		**6.6**				
E1/MF/M/ REPLICATE 2	[03-JUN-2017]	HK1722136-112		**3.2**				
E1/MF/B/ REPLICATE 1	[03-JUN-2017]	HK1722136-113		**5.1**				
E1/MF/B/ REPLICATE 2	[03-JUN-2017]	HK1722136-114		**2.9**				
E2/MF/S/ REPLICATE 1	[03-JUN-2017]	HK1722136-115		**5.3**				
E2/MF/S/ REPLICATE 2	[03-JUN-2017]	HK1722136-116		**3.6**				
E2/MF/M/ REPLICATE 1	[03-JUN-2017]	HK1722136-117		**6.4**				
E2/MF/M/ REPLICATE 2	[03-JUN-2017]	HK1722136-118		**4.9**				
E2/MF/B/ REPLICATE 1	[03-JUN-2017]	HK1722136-119		**2.8**				
E2/MF/B/ REPLICATE 2	[03-JUN-2017]	HK1722136-120		**2.0**				
E3/MF/S/ REPLICATE 1	[03-JUN-2017]	HK1722136-121		**3.2**				
E3/MF/S/ REPLICATE 2	[03-JUN-2017]	HK1722136-122		**3.6**				
E3/MF/M/ REPLICATE 1	[03-JUN-2017]	HK1722136-123		**3.2**				
E3/MF/M/ REPLICATE 2	[03-JUN-2017]	HK1722136-124		**4.9**				
E3/MF/B/ REPLICATE 1	[03-JUN-2017]	HK1722136-125		**2.6**				
E3/MF/B/ REPLICATE 2	[03-JUN-2017]	HK1722136-126		**3.2**				
G1/MF/S/ REPLICATE 1	[03-JUN-2017]	HK1722136-127		**3.2**				
G1/MF/S/ REPLICATE 2	[03-JUN-2017]	HK1722136-128		**5.3**				
G1/MF/M/ REPLICATE 1	[03-JUN-2017]	HK1722136-129		**5.0**				
G1/MF/M/ REPLICATE 2	[03-JUN-2017]	HK1722136-130		**4.6**				
G1/MF/B/ REPLICATE 1	[03-JUN-2017]	HK1722136-131		**3.3**				
G1/MF/B/ REPLICATE 2	[03-JUN-2017]	HK1722136-132		**2.7**				
G2/MF/S/ REPLICATE 1	[03-JUN-2017]	HK1722136-133		**5.4**				
G2/MF/S/ REPLICATE 2	[03-JUN-2017]	HK1722136-134		**6.1**				
G2/MF/M/ REPLICATE 1	[03-JUN-2017]	HK1722136-135		**2.7**				
G2/MF/M/ REPLICATE 2	[03-JUN-2017]	HK1722136-136		**5.0**				
G2/MF/B/ REPLICATE 1	[03-JUN-2017]	HK1722136-137		**5.0**				
G2/MF/B/ REPLICATE 2	[03-JUN-2017]	HK1722136-138		**2.6**				
E5/MF/S/ REPLICATE 1	[03-JUN-2017]	HK1722136-139		**2.6**				
E5/MF/S/ REPLICATE 2	[03-JUN-2017]	HK1722136-140		**4.0**				

Sub-Matrix: **WATER**

Client sample ID	*Client sampling date / time*	*Laboratory sample ID*	*Compound*	**EA025: Suspended Solids (SS)**				
			LOR Unit	0.5 mg/L				
				EA/ED: Physical and Aggregate Properties				
E5/MF/M/ REPLICATE 1	[03-JUN-2017]	HK1722136-141		**4.4**				
E5/MF/M/ REPLICATE 2	[03-JUN-2017]	HK1722136-142		**4.4**				
E5/MF/B/ REPLICATE 1	[03-JUN-2017]	HK1722136-143		**2.1**				
E5/MF/B/ REPLICATE 2	[03-JUN-2017]	HK1722136-144		**3.1**				
E4/MF/S/ REPLICATE 1	[03-JUN-2017]	HK1722136-145		**2.5**				
E4/MF/S/ REPLICATE 2	[03-JUN-2017]	HK1722136-146		**2.6**				
E4/MF/M/ REPLICATE 1	[03-JUN-2017]	HK1722136-147		**1.0**				
E4/MF/M/ REPLICATE 2	[03-JUN-2017]	HK1722136-148		**1.5**				
E4/MF/B/ REPLICATE 1	[03-JUN-2017]	HK1722136-149		**2.6**				
E4/MF/B/ REPLICATE 2	[03-JUN-2017]	HK1722136-150		**5.3**				
G5/MF/S/ REPLICATE 1	[03-JUN-2017]	HK1722136-151		**1.6**				
G5/MF/S/ REPLICATE 2	[03-JUN-2017]	HK1722136-152		**2.2**				
G5/MF/M/ REPLICATE 1	[03-JUN-2017]	HK1722136-153		**3.3**				
G5/MF/M/ REPLICATE 2	[03-JUN-2017]	HK1722136-154		**2.4**				
G5/MF/B/ REPLICATE 1	[03-JUN-2017]	HK1722136-155		**2.2**				
G5/MF/B/ REPLICATE 2	[03-JUN-2017]	HK1722136-156		<0.5				
G4/MF/S/ REPLICATE 1	[03-JUN-2017]	HK1722136-157		**3.7**				
G4/MF/S/ REPLICATE 2	[03-JUN-2017]	HK1722136-158		**2.6**				
G4/MF/M/ REPLICATE 1	[03-JUN-2017]	HK1722136-159		**7.9**				
G4/MF/M/ REPLICATE 2	[03-JUN-2017]	HK1722136-160		**5.6**				
G4/MF/B/ REPLICATE 1	[03-JUN-2017]	HK1722136-161		**1.5**				
G4/MF/B/ REPLICATE 2	[03-JUN-2017]	HK1722136-162		**2.3**				
E7/MF/S/ REPLICATE 1	[03-JUN-2017]	HK1722136-163		**3.7**				
E7/MF/S/ REPLICATE 2	[03-JUN-2017]	HK1722136-164		**3.9**				
E7/MF/M/ REPLICATE 1	[03-JUN-2017]	HK1722136-165		**5.6**				
E7/MF/M/ REPLICATE 2	[03-JUN-2017]	HK1722136-166		**6.6**				
E7/MF/B/ REPLICATE 1	[03-JUN-2017]	HK1722136-167		**3.6**				
E7/MF/B/ REPLICATE 2	[03-JUN-2017]	HK1722136-168		**2.6**				
E6/MF/S/ REPLICATE 1	[03-JUN-2017]	HK1722136-169		**5.0**				
E6/MF/S/ REPLICATE 2	[03-JUN-2017]	HK1722136-170		**4.2**				
E6/MF/M/ REPLICATE 1	[03-JUN-2017]	HK1722136-171		**3.4**				
E6/MF/M/ REPLICATE 2	[03-JUN-2017]	HK1722136-172		**3.5**				
E6/MF/B/ REPLICATE 1	[03-JUN-2017]	HK1722136-173		**2.4**				
E6/MF/B/ REPLICATE 2	[03-JUN-2017]	HK1722136-174		**2.4**				
C1/MF/S/ REPLICATE 1	[03-JUN-2017]	HK1722136-175		**3.1**				

Sub-Matrix: **WATER**

Client sample ID	*Client sampling date / time*	*Laboratory sample ID*	*Compound*	**EA025: Suspended Solids (SS)**				
			LOR Unit	0.5 mg/L				
				EA/ED: Physical and Aggregate Properties				
C1/MF/S/ REPLICATE 2	[03-JUN-2017]	HK1722136-176		**3.0**				
C1/MF/M/ REPLICATE 1	[03-JUN-2017]	HK1722136-177		**6.4**				
C1/MF/M/ REPLICATE 2	[03-JUN-2017]	HK1722136-178		**4.1**				
C1/MF/B/ REPLICATE 1	[03-JUN-2017]	HK1722136-179		**4.7**				
C1/MF/B/ REPLICATE 2	[03-JUN-2017]	HK1722136-180		**5.3**				

Laboratory Duplicate (DUP) Report

Matrix: **WATER**

Laboratory sample ID	Client 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: 4491583)								
HK1722136-001	L1/ME/S/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	5.7	6.0	4.7
HK1722136-011	B1/ME/B/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	6.2	5.2	18.4
EA/ED: Physical and Aggregate Properties (QC Lot: 4491584)								
HK1722136-021	E1/ME/M/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	4.8	3.8	22.9
HK1722136-031	E3/ME/S/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	4.7	3.9	18.8
EA/ED: Physical and Aggregate Properties (QC Lot: 4491585)								
HK1722136-041	G1/ME/B/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	2.6	3.0	17.0
HK1722136-051	E5/ME/M/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	3.1	2.5	22.4
EA/ED: Physical and Aggregate Properties (QC Lot: 4491586)								
HK1722136-061	G5/ME/S/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	6.8	5.9	15.0
HK1722136-071	G4/ME/B/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	6.2	5.4	13.4
EA/ED: Physical and Aggregate Properties (QC Lot: 4491587)								
HK1722136-081	E6/ME/M/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	3.9	3.7	4.6
HK1722136-091	L1/MF/S/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	4.1	5.0	20.9
EA/ED: Physical and Aggregate Properties (QC Lot: 4491588)								
HK1722136-101	B1/MF/B/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	3.7	4.4	16.6
HK1722136-112	E1/MF/M/ REPLICATE 2	EA025: Suspended Solids (SS)	----	0.5	mg/L	3.2	2.8	12.4
EA/ED: Physical and Aggregate Properties (QC Lot: 4491589)								
HK1722136-122	E3/MF/S/ REPLICATE 2	EA025: Suspended Solids (SS)	----	0.5	mg/L	3.6	2.9	20.2
HK1722136-131	G1/MF/B/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	3.3	2.5	27.4
EA/ED: Physical and Aggregate Properties (QC Lot: 4491590)								
HK1722136-141	E5/MF/M/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	4.4	3.5	22.8
HK1722136-151	G5/MF/S/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	1.6	1.6	0.0
EA/ED: Physical and Aggregate Properties (QC Lot: 4491591)								
HK1722136-161	G4/MF/B/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	1.5	1.8	18.2
HK1722136-171	E6/MF/M/ REPLICATE 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	3.4	4.3	24.7

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: 4491583)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20.0 mg/L	85.0	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 4491584)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20.0 mg/L	104	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 4491585)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20.0 mg/L	109	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 4491586)											

Matrix: **WATER**

		Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
					Spike	Spike Recovery (%)		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: 4491586) - continued											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20.0 mg/L	104	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 4491587)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20.0 mg/L	101	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 4491588)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20.0 mg/L	108	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 4491589)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20.0 mg/L	88.5	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 4491590)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20.0 mg/L	101	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 4491591)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20.0 mg/L	90.0	----	85	115	----	----

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

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