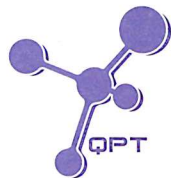


Annex G

## Water Quality

Annex G1

## Calibration Certificates for Water Quality



專業化驗有限公司  
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## REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No. : R-BC030056  
Date of Issue : 20 March 2023  
Page No. : 1 of 2

### PART A - CUSTOMER INFORMATION

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

### PART B - SAMPLE INFORMATION

Name of Equipment : YSI ProDSS (Multi-Parameters)  
Manufacturer : YSI (a xylem brand)  
Serial Number : S/N: 15M100005  
Date of Received : 17 March 2023  
Date of Calibration : 17 March 2023  
Date of Next Calibration : 16 June 2023  
Request No. : D-BC030056

### PART C - REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

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

### PART D - CALIBRATION RESULT

#### (1) pH value

Target (pH unit)	Display Reading (pH unit)	Tolerance	Result
4.00	4.02	0.02	Satisfactory
7.42	7.46	0.04	Satisfactory
10.01	10.16	0.15	Satisfactory

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

#### (2) Temperature

Reading of Ref. thermometer (°C)	Display Reading (°C)	Tolerance	Result
15	15.0	0.0	Satisfactory
30	30.0	0.0	Satisfactory
40	39.8	-0.2	Satisfactory

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


#### (3) Salinity

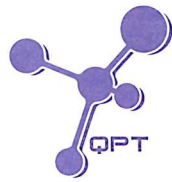
Expected Reading (g/L)	Display Reading (g/L)	Tolerance (%)	Result
10	10.09	0.90	Satisfactory
20	20.53	2.65	Satisfactory
30	30.46	1.53	Satisfactory

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

--- CONTINUED ON NEXT PAGE ---

AUTHORIZED  
SIGNATORY:

  
LEE Chun-ning  
Assistant Manager (Chemical Testing)



## REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No. : R-BC030056  
Date of Issue : 20 March 2023  
Page No. : 2 of 2

### (4) Dissolved oxygen

Expected Reading ( mg/L )	Display Reading ( mg/L )	Tolerance	Result
8.17	8.33	0.16	Satisfactory
5.28	5.21	-0.07	Satisfactory
1.86	1.58	-0.28	Satisfactory
0.30	0.39	0.09	Satisfactory

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

### (5) Turbidity

Expected Reading ( NTU )	Display Reading ( NTU )	Tolerance ( % )	Result
0	0.10	--	Satisfactory
10	9.88	-1.2	Satisfactory
20	19.72	-1.4	Satisfactory
100	97.36	-2.6	Satisfactory
800	789.53	-1.3	Satisfactory

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

### (6) Conductivity

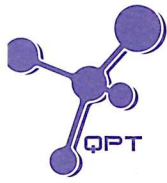
Expected Reading ( $\mu\text{S/cm}$ at 25°C )	Display Reading	Tolerance ( % )	Result
146.9	151.3	3.00	Satisfactory
1412	1366	-3.26	Satisfactory
12890	12852	-0.29	Satisfactory
58670	60593	3.28	Satisfactory
111900	111742	-0.14	Satisfactory

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

### Remark(s)

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

--- END OF REPORT ---



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## REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No. : R-BC020017  
Date of Issue : 06 February 2023  
Page No. : 1 of 2

### PART A - CUSTOMER INFORMATION

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

### PART B - SAMPLE INFORMATION

Name of Equipment : YSI ProDSS (Multi-Parameters)  
Manufacturer : YSI (a xylem brand)  
Serial Number : 16H104234  
Date of Received : 03 February 2023  
Date of Calibration : 03 February 2023  
Date of Next Calibration : 02 May 2023  
Request No. : D-BC020017

### PART C - REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

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

### PART D - CALIBRATION RESULT

#### (1) pH value

Target (pH unit)	Display Reading (pH unit)	Tolerance	Result
4.00	3.92	-0.08	Satisfactory
7.42	7.38	-0.04	Satisfactory
10.01	9.94	-0.07	Satisfactory

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

#### (2) Temperature

Reading of Ref. thermometer (°C)	Display Reading (°C)	Tolerance	Result
40	40.0	0.0	Satisfactory
30	30.0	0.0	Satisfactory
20	20.0	0.0	Satisfactory

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

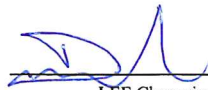
#### (3) Salinity

Expected Reading (g/L)	Display Reading (g/L)	Tolerance (%)	Result
10	9.92	-0.80	Satisfactory
20	20.40	2.00	Satisfactory
30	29.79	-0.70	Satisfactory

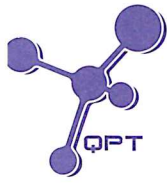
Tolerance of Salinity should be less than  $\pm 10.0$  (%)

--- CONTINUED ON NEXT PAGE ---

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## REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No. : R-BC020017

Date of Issue : 06 February 2023

Page No. : 2 of 2

### (4) Dissolved oxygen

Expected Reading ( mg/L )	Display Reading ( mg/L )	Tolerance	Result
8.34	8.50	0.16	Satisfactory
6.70	6.62	-0.08	Satisfactory
3.41	3.22	-0.19	Satisfactory
0.11	0.50	0.39	Satisfactory

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

### (5) Turbidity

Expected Reading ( NTU )	Display Reading ( NTU )	Tolerance ( % )	Result
0	0.05	--	Satisfactory
10	9.90	-1.0	Satisfactory
20	19.36	-3.2	Satisfactory
100	96.52	-3.5	Satisfactory
800	795.37	-0.6	Satisfactory

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

### (6) Conductivity

Expected Reading ( $\mu\text{S/cm at } 25^\circ\text{C}$ )	Display Reading	Tolerance ( % )	Result
146.9	150	2.11	Satisfactory
1412	1477	4.60	Satisfactory
12890	13582	5.37	Satisfactory
58670	59121	0.77	Satisfactory
111900	114082	1.95	Satisfactory

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

### Remark(s)

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



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## REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No. : R-BC030055  
Date of Issue : 20 March 2023  
Page No. : 1 of 2

### PART A - CUSTOMER INFORMATION

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

### PART B - SAMPLE INFORMATION

Name of Equipment : YSI ProDSS (Multi-Parameters)  
Manufacturer : YSI (a xylem brand)  
Serial Number : S/N: 21G105356  
Date of Received : 17 March 2023  
Date of Calibration : 17 March 2023  
Date of Next Calibration : 16 June 2023  
Request No. : D-BC030055

### PART C - REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

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

### PART D - CALIBRATION RESULT

#### (1) pH value

Target (pH unit)	Display Reading (pH unit)	Tolerance	Result
4.00	4.04	0.04	Satisfactory
7.42	7.46	0.04	Satisfactory
10.01	10.14	0.13	Satisfactory

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

#### (2) Temperature

Reading of Ref. thermometer (°C)	Display Reading (°C)	Tolerance	Result
15	15.0	0.0	Satisfactory
30	30.0	0.0	Satisfactory
40	39.9	-0.1	Satisfactory

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


#### (3) Salinity

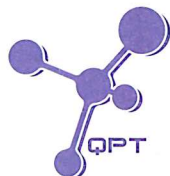
Expected Reading (g/L)	Display Reading (g/L)	Tolerance (%)	Result
10	10.10	1.00	Satisfactory
20	19.82	-0.90	Satisfactory
30	30.55	1.83	Satisfactory

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

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AUTHORIZED  
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Assistant Manager (Chemical Testing)



## REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No. : R-BC030055  
Date of Issue : 20 March 2023  
Page No. : 2 of 2

### (4) Dissolved oxygen

Expected Reading ( mg/L )	Display Reading ( mg/L )	Tolerance	Result
8.17	8.31	0.14	Satisfactory
5.28	5.29	0.01	Satisfactory
1.86	1.56	-0.30	Satisfactory
0.30	0.39	0.09	Satisfactory

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

### (5) Turbidity

Expected Reading ( NTU )	Display Reading ( NTU )	Tolerance ( % )	Result
0	0.10	--	Satisfactory
10	9.86	-1.4	Satisfactory
20	19.73	-1.4	Satisfactory
100	98.87	-1.1	Satisfactory
800	790.41	-1.2	Satisfactory

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

### (6) Conductivity

Expected Reading ( $\mu\text{S}/\text{cm}$ at 25°C )	Display Reading	Tolerance ( % )	Result
146.9	148.7	1.23	Satisfactory
1412	1511	7.01	Satisfactory
12890	12994	0.81	Satisfactory
58670	60395	2.94	Satisfactory
111900	111890	-0.01	Satisfactory

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

### Remark(s)

- The "Date of Next Calibration" is recommended according to best practice principals as practiced by QPT or quoted form relevant international standards.
- The results relate only to the calibrated equipment as received
- The performance of the equipment stated in this report is checked with independent reference material and results compared against a calibrated secondary source.
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--- END OF REPORT ---



Annex G2

## Monitoring Schedule for Water Quality

**Tung Chung New Town Extension (East)  
Impact Marine Water Quality Monitoring (WQM) Schedule (April 2023)**

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						1-Apr
2-Apr	3-Apr	4-Apr	5-Apr	6-Apr	7-Apr	8-Apr
	ebb tide 10:19 - 13:49 flood tide 4:36 - 8:06		WQM was cancelled due to suspension of work during holiday		ebb tide 12:02 - 15:32 flood tide 5:53 - 9:23	
9-Apr	10-Apr	11-Apr	12-Apr	13-Apr	14-Apr	15-Apr
	ebb tide 13:51 - 17:21 flood tide 7:07 - 10:37		ebb tide 15:38 - 18:15 flood tide 8:05 - 11:35		ebb tide 18:21 - 21:51 flood tide 6:15 - 9:08	
16-Apr	17-Apr	18-Apr	19-Apr	20-Apr	21-Apr	22-Apr
	ebb tide 9:51 - 13:21 flood tide 4:00 - 7:30		ebb tide 10:59 - 14:29 flood tide 4:53 - 8:23		ebb tide 12:06 - 15:36 flood tide 5:38 - 9:08	
23-Apr	24-Apr	25-Apr	26-Apr	27-Apr	28-Apr	29-Apr
	ebb tide 13:58 - 16:13 flood tide 6:50 - 10:20		ebb tide 15:26 - 18:00 flood tide 4:13 - 6:25		ebb tide 17:36 - 21:06 flood tide 6:00 - 8:32	
30-Apr						

**Remark:**

Pickup time and place of 1st tide: 15 min before tidal window at Sham Tseng pier

Pickup time and place of 2nd tide: 15 min before tidal window at Tung Chung pier

Annex G3

## Monitoring Results for Water Quality

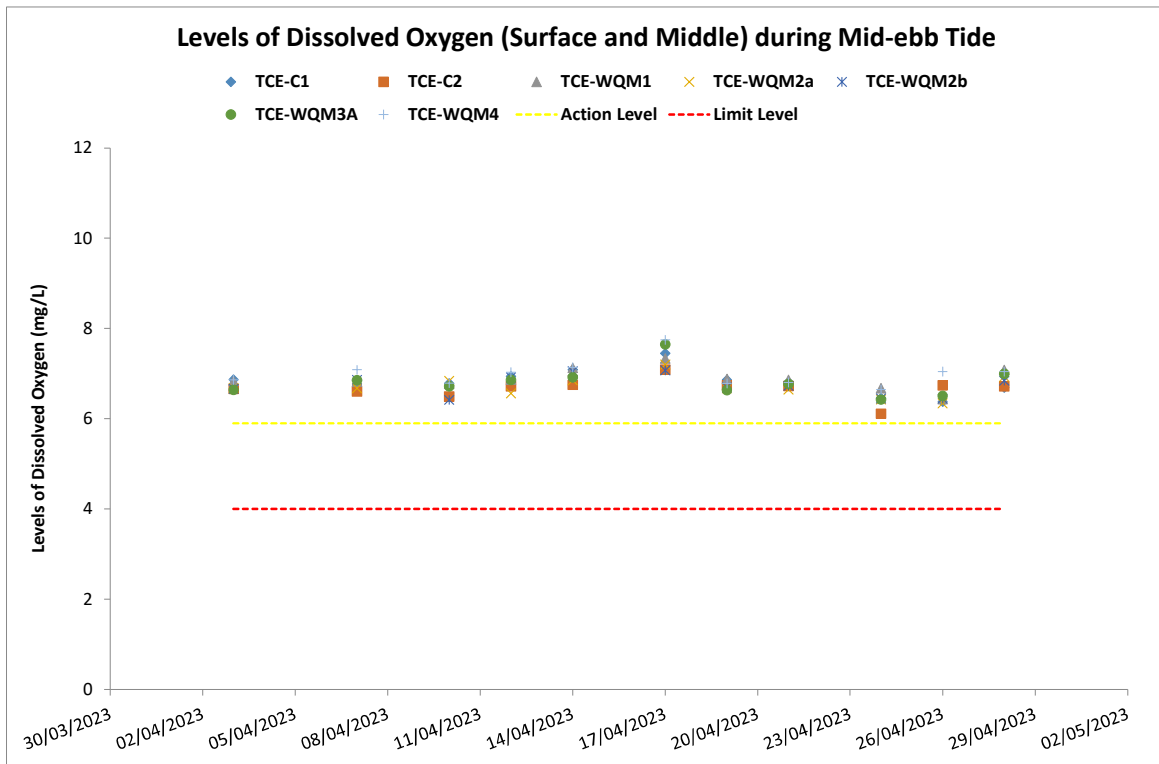


Figure 1: Levels of Dissolved Oxygen (Surface and Middle) (mg/L) recorded at Mid-ebb Tide during the Water Quality Monitoring between 1 to 30 April 2023

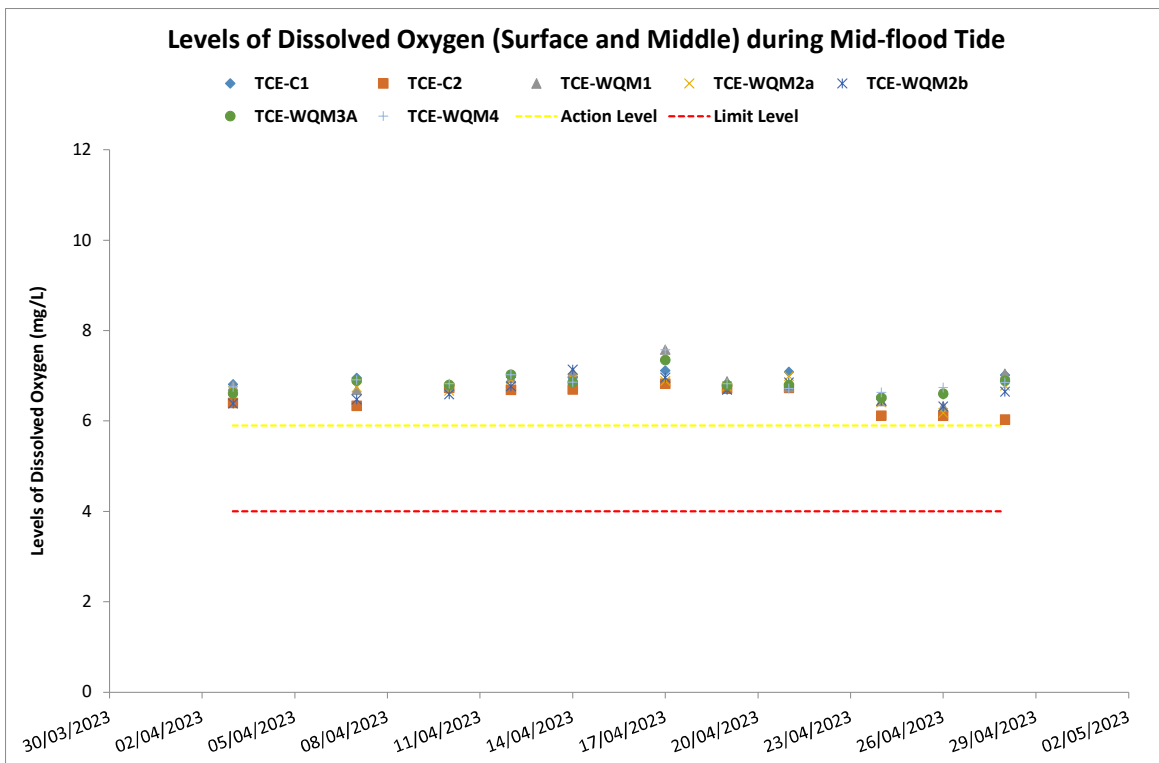


Figure 2: Levels of Dissolved Oxygen (Surface and Middle) (mg/L) recorded at Mid-flood Tide during the Water Quality Monitoring between 1 to 30 April 2023

Source: P:\Projects\0445700 CEDD ET for Tung Chung.JT\02\_Deliverable\10 Monthly EM&A Report\  
 Date: April 2023

**Environmental  
 Resources  
 Management**



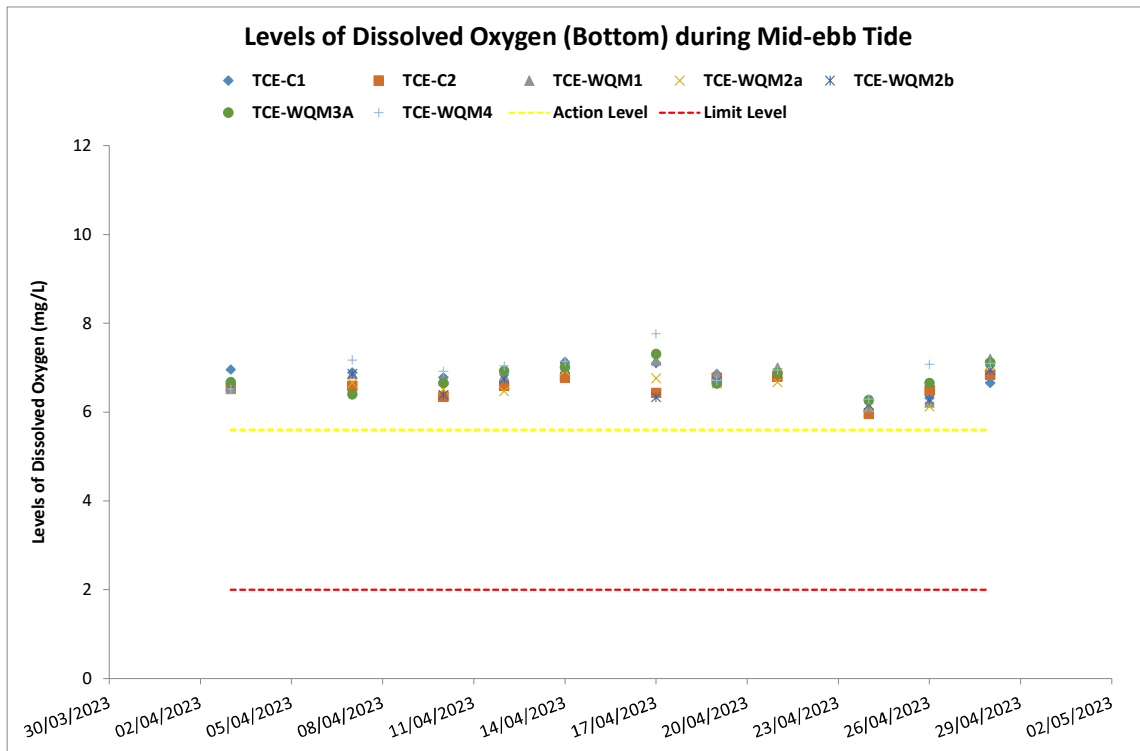


Figure 3: Levels of Dissolved Oxygen (Bottom) (mg/L) recorded at Mid-ebb Tide during the Water Quality Monitoring between 1 to 30 April 2023

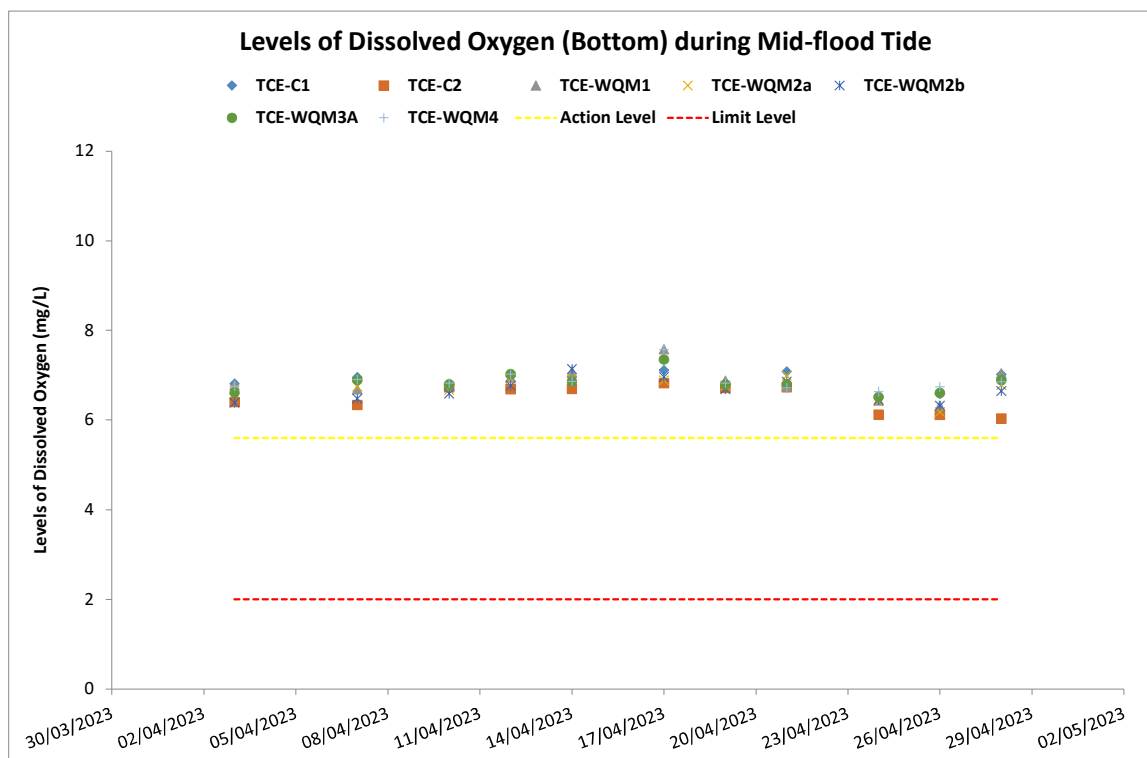


Figure 4: Levels of Dissolved Oxygen (Bottom) (mg/L) recorded at Mid-flood Tide during the Water Quality Monitoring between 1 to 30 April 2023

Source: P:\Projects\0445700 CEDD ET for Tung Chung.JT\02\_Deliverable\10 Monthly EM&A Report\  
 Date: April 2023

**Environmental  
 Resources  
 Management**



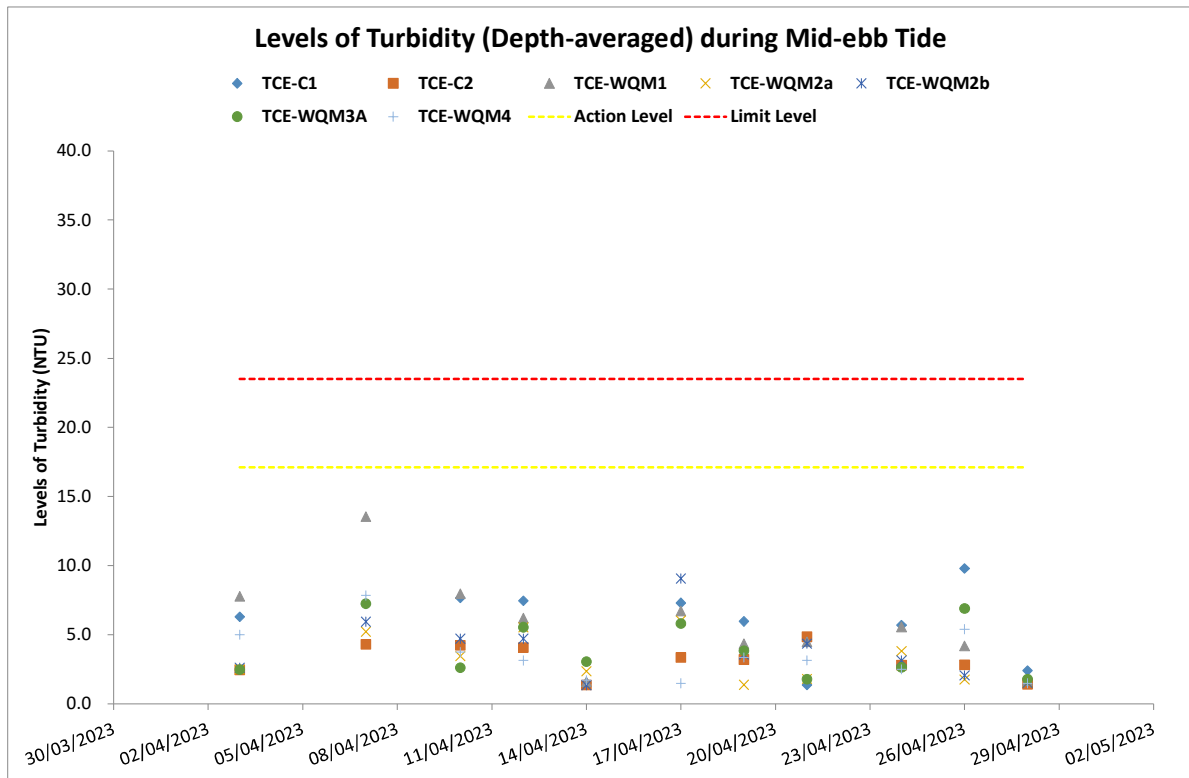


Figure 5: Levels of Turbidity (Depth-averaged) (NTU) recorded at Mid-ebb Tide during the Water Quality Monitoring between 1 to 30 April 2023

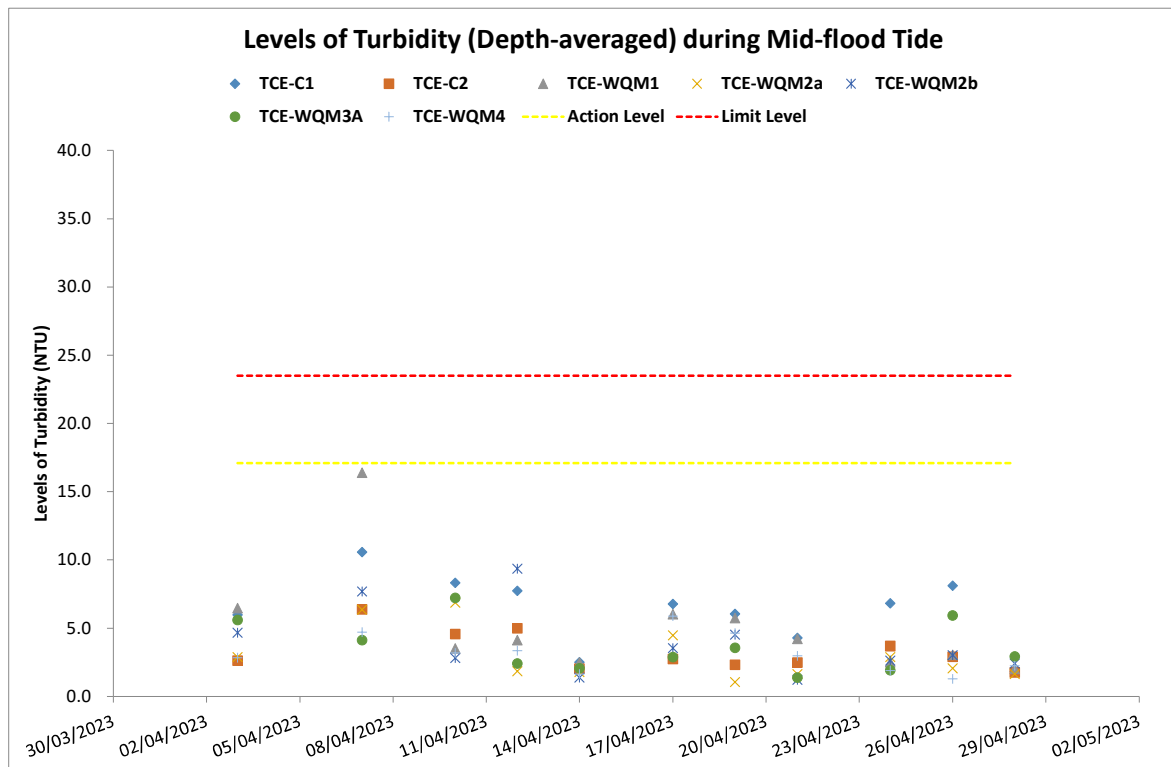


Figure 6: Levels of Turbidity (Depth-averaged) (NTU) recorded at Mid-flood Tide during the Water Quality Monitoring between 1 to 30 April 2023

Source: P:\Projects\0445700 CEDD ET for Tung Chung.JT\02\_Deliverable\10 Monthly EM&A Report\

Date: April 2023

**Environmental  
Resources  
Management**



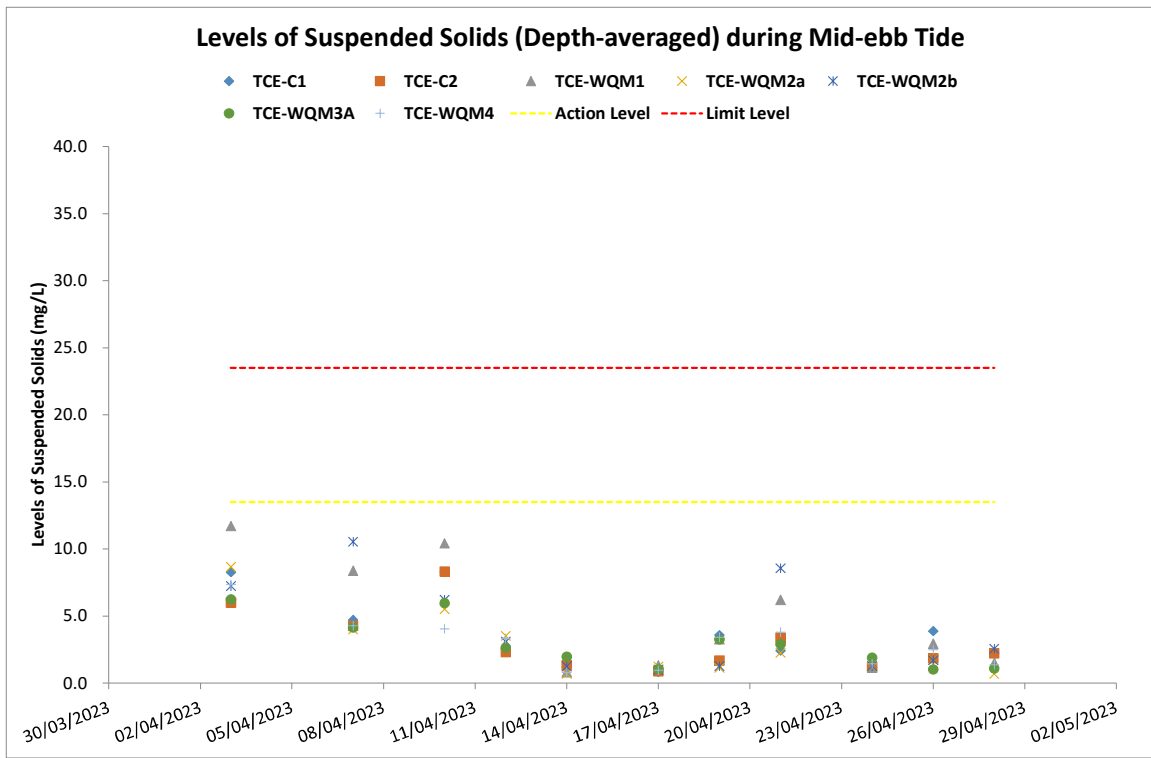


Figure 7: Levels of Suspended Solids (Depth-averaged) (mg/L) recorded at Mid-ebb Tide during the Water Quality Monitoring between 1 to 30 April 2023

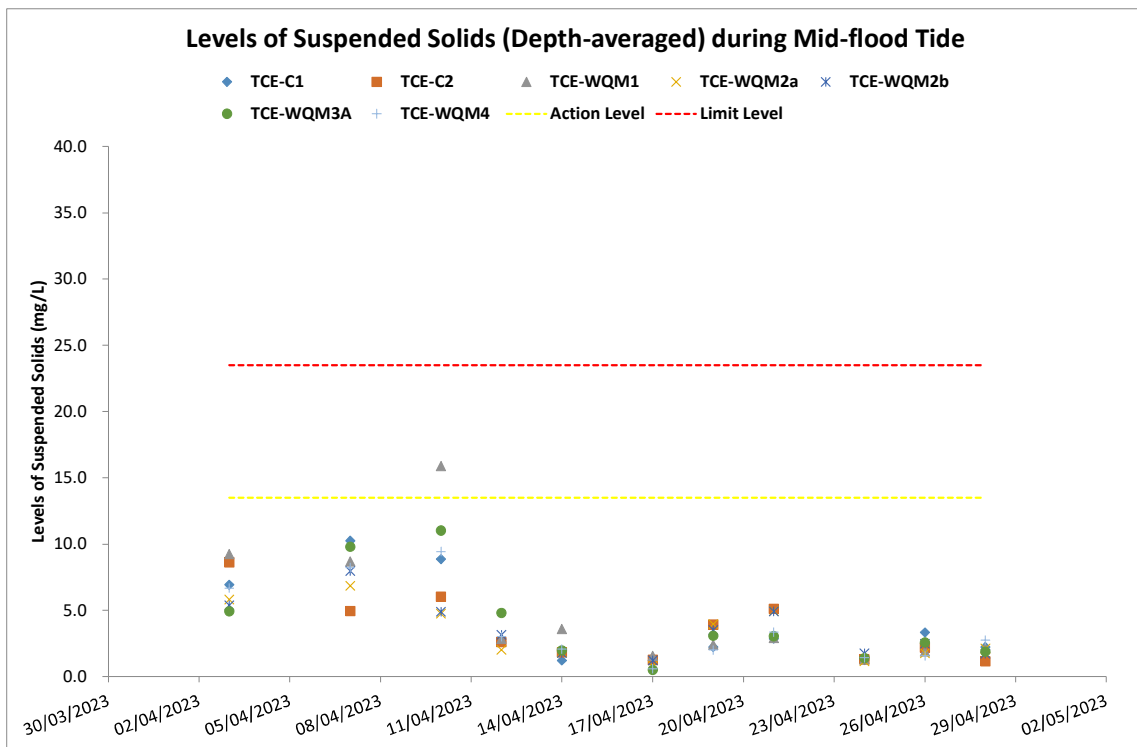


Figure 8: Levels of Suspended Solids (Depth-averaged) (mg/L) recorded at Mid-flood Tide during the Water Quality Monitoring between 1 to 30 April 2023

Source: P:\Projects\0445700 CEDD ET for Tung Chung.JT\02\_Deliverable\10 Monthly EM&A Report\  
 Date: April 2023

**Environmental  
 Resources  
 Management**



Date	Tide	Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Water Level	Sampling depth (m)	Replicate	Water Temperature (°C)	pH	Salinity (ppt)	Dissolved Oxygen (DO) (mg/L)	DO Saturation (%)	Turbidity (NTU)	Suspended Solids (SS) (mg/L)	Depth-averaged									
																	DO (mg/L)	Turbidity (NTU)	SS (mg/L)							
2023-04-03	Mid-Ebb	TCE-C1	Cloudy	Rough	10:21	7.1	Surface	1.0	1	20.6	8.1	30.2	6.9	91.1	5.6	9.2	6.9	6.3	8.3							
									2	20.6	8.1	30.2	6.9	91.2	5.7	9.6										
							Middle	3.6	1	20.5	8.1	30.3	6.9	91.4	6.5	8.6										
									2	20.5	8.1	30.3	6.9	91.4	6.5	8.3										
							Bottom	6.1	1	20.5	8.2	30.5	7.0	92.5	6.8	6.8										
									2	20.5	8.2	30.5	7.0	92.6	6.8	7.2										
		TCE-C2	Cloudy	Rough	12:44	12.7	Surface	1.0	1	20.7	8.1	30.0	6.7	88.8	2.4	7.0	6.7	2.4	6.0							
									2	20.7	8.1	30.0	6.7	88.8	2.4	6.7										
							Middle	6.4	1	20.7	8.1	30.1	6.6	88.3	2.4	6.0										
									2	20.7	8.1	30.1	6.6	88.3	2.4	5.8										
							Bottom	11.7	1	20.6	8.1	30.4	6.6	87.1	2.6	5.5										
									2	20.6	8.1	30.4	6.6	87.1	2.6	5.1										
	TCE-WQM1	Cloudy	Rough	11:19	9.9	Surface	1.0	1	20.7	8.1	30.0	6.8	90.7	6.9	13.5	6.8	7.8	11.7								
								2	20.7	8.1	30.0	6.8	90.7	6.9	12.8											
						Middle	5.0	1	20.6	8.1	30.3	6.9	91.0	6.2	11.6											
								2	20.6	8.1	30.2	6.9	91.0	6.2	11.0											
						Bottom	8.9	1	20.5	8.2	30.5	6.5	85.7	10.2	10.5											
								2	20.5	8.2	30.5	6.5	85.7	10.2	10.9											
	TCE-WQM2a	Cloudy	Rough	12:04	7.2	Surface	1.0	1	20.6	8.1	30.0	6.7	89.3	2.7	7.7	6.7	2.5	8.7								
								2	20.6	8.1	30.0	6.7	89.3	2.7	8.1											
						Middle	3.6	1	20.6	8.1	30.2	6.6	88.2	2.4	8.8											
								2	20.6	8.1	30.2	6.6	88.2	2.4	8.5											
						Bottom	6.2	1	20.6	8.1	30.5	6.6	87.5	2.4	9.3											
								2	20.6	8.1	30.5	6.6	87.5	2.3	9.6											
TCE-WQM2b	Cloudy	Rough	12:24	10.6	Surface	1.0	1	20.7	8.1	30.0	6.7	89.1	2.3	8.5	6.7	2.6	7.2									
							2	20.7	8.1	30.0	6.7	89.1	2.3	8.1												
					Middle	5.3	1	20.7	8.1	30.1	6.6	88.0	2.5	7.2												
							2	20.7	8.1	30.1	6.6	88.0	2.5	6.9												
					Bottom	9.6	1	20.6	8.1	31.0	6.6	88.0	3.1	6.1												
							2	20.6	8.1	31.0	6.6	88.0	3.1	6.6												
TCE-WQM3A	Cloudy	Rough	11:51	5.3	Surface	1.0	1	20.6	8.1	30.2	6.6	88.3	2.6	6.1	6.6	2.5	6.3									
							2	20.6	8.1	30.2	6.6	88.3	2.6	5.6												
					Bottom	4.3	1	20.6	8.1	30.4	6.7	88.7	2.4	6.4												
							2	20.6	8.1	30.4	6.7	88.9	2.4	6.9												
					TCE-WQM4	Cloudy	Rough	11:34	4.1	Surface	1.0	1	20.7	8.1				29.9	6.9	91.2	4.3	7.1	6.9	5.0	7.4	
											2	20.7	8.1	29.9				6.9	91.2	4.3	7.5					
Bottom	3.1	1	20.7	8.1	29.9					6.5	85.7	5.7	7.9													
		2	20.7	8.1	29.9					6.5	85.7	5.7	7.9													
2023-04-03	Mid-Flood	TCE-C1	Fine	Rough	6:57					6.9	Surface	1.0	1	20.6	7.9	30.9	6.8	91.3	4.6	8.3	6.8	6.0				6.9
													2	20.6	7.9	30.9	6.8	91.3	4.7	7.7						
						Middle	3.5	1	20.6		7.8	30.9	6.8	90.9	6.0	7.2										
								2	20.6		7.8	30.9	6.8	90.9	6.0	6.8										
						Bottom	5.9	1	20.5		7.7	31.1	6.9	91.6	7.3	5.6										
								2	20.5		7.7	31.1	6.9	91.6	7.4	6.0										
		TCE-C2	Fine	Rough	4:53	11.5	Surface	1.0	1	20.6	8.0	30.7	6.4	85.7	2.7	9.4	6.4	2.6	8.6							
									2	20.6	8.0	30.7	6.4	85.7	2.7	9.6										
							Middle	5.8	1	20.5	7.9	31.1	6.4	85.0	2.1	8.7										
									2	20.5	7.9	31.1	6.4	85.0	2.2	8.3										
							Bottom	10.5	1	20.5	7.9	30.9	6.4	85.3	3.0	7.9										
									2	20.5	7.9	30.9	6.4	85.3	3.0	7.9										
	TCE-WQM1	Fine	Moderate	6:05	8.8	Surface	1.0	1	20.6	8.1	30.0	6.8	90.0	5.8	11.0	6.8	6.5	9.2								
								2	20.6	8.1	30.0	6.8	90.1	5.8	10.6											
						Middle	4.4	1	20.6	8.1	30.1	6.8	90.3	5.9	9.1											
								2	20.6	8.1	30.1	6.8	90.3	6.0	8.9											
						Bottom	7.8	1	20.6	8.1	30.3	6.8	90.5	7.7	7.7											
								2	20.6	8.1	30.2	6.8	90.5	7.6	8.1											
	TCE-WQM2a	Fine	Rough	5:26	6.4	Surface	1.0	1	20.6	8.1	29.7	6.8	89.4	2.8	6.3	6.7	2.9	5.8								
								2	20.6	8.1	29.7	6.8	89.4	2.8	6.6											
						Middle	3.2	1	20.6	8.1	30.3	6.6	87.4	2.5	6.0											
								2	20.6	8.1	30.3	6.6	87.4	2.6	5.7											
						Bottom	5.4	1	20.6	8.1	30.6	6.4	85.5	3.3	5.0											
								2	20.6	8.1	30.6	6.4	85.5	3.3	5.3											
TCE-WQM2b	Fine	Rough	5:11	9.2	Surface	1.0	1	20.6	8.1	30.4	6.5	86.2	3.7	3.8	6.4	4.7	5.4									
							2	20.6	8.1	30.4	6.5	86.2	3.7	4.3												
					Middle	4.6	1	20.6	8.1	30.8	6.3	83.9	5.0	5.7												
							2	20.6	8.1	30.8	6.3	83.9	5.1	5.4												
					Bottom	8.2	1	20.6	8.1	31.5	6.2	82.7	5.2	6.9												
							2	20.6	8.1	31.5	6.2	82.7	5.2	6.2												
TCE-WQM3A	Fine	Moderate	5:39	4.6	Surface	1.0	1	20.6	8.1	29.8	6.6	87.5	4.3	6.0	6.6	5.6	4.9									
							2	20.6	8.1	29.8	6.6	87.5	4.3	5.6												
					Bottom	3.6	1	20.6	8.1	29.8	6.6	88.0	6.9	4.2												
							2	20.6	8.1	29.8	6.7	88.2	6.9	3.9												
					TCE-WQM4	Fine	Moderate	5:50	3.7	Surface	1.0	1	20.6	8.1				29.9	6.8	89.6	2.5	6.2	6.8	2.8	6.7	
												2	20.6	8.1				29.9	6.8	89.6	2.5	6.5				
Bottom	2.7	1	20.6	8.1						29.9	6.8	90.0	3.2	7.2												
		2	20.6	8.1						29.9	6.8	90.1	3.2	6.8												









Water Quality Monitoring for Tung Chung New Town Extension (East)

Date	Tide	Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Water Level	Sampling depth (m)	Replicate	Water Temperature (°C)	pH	Salinity (ppt)	Dissolved Oxygen (DO) (mg/L)	DO Saturation (%)	Turbidity (NTU)	Suspended Solids (SS) (mg/L)	Depth-averaged			
																	DO (mg/L)	Turbidity (NTU)	SS (mg/L)	
2023-04-14	Mid-Ebb	TCE-C1	Fine	Calm	18:26	8.2	Surface	1.0	1	22.5	8.0	27.7	7.1	95.9	1.2	0.6	7.1	1.5	1.2	
									2	22.5	8.0	27.7	7.1	95.9	1.1	0.9				
							Middle	4.1	1	22.5	8.0	27.7	7.1	96.1	1.3	1.1				
								2	22.5	8.0	27.7	7.1	96.2	1.4	1.3					
							Bottom	7.2	1	22.5	8.0	27.6	7.1	96.5	2.0	1.8				
								2	22.6	8.0	27.6	7.1	96.7	2.0	1.6					
		TCE-C2	Fine	Calm	19:56	14.0	Surface	1.0	1	21.8	8.0	28.3	6.9	92.9	1.2	1.7	6.8	1.4	1.3	
								2	21.7	8.0	28.3	6.7	89.8	1.2	1.5					
							Middle	7.0	1	21.5	8.0	30.7	6.7	90.5	1.3	1.2				
								2	21.5	8.0	30.8	6.7	90.7	1.4	1.4					
							Bottom	13.0	1	21.5	8.0	30.8	6.8	91.6	1.5	1.1				
								2	21.5	8.0	30.8	6.8	92.0	1.5	1.1					
		TCE-WQM1	Fine	Calm	18:49	9.6	Surface	1.0	1	22.7	8.0	27.1	7.1	96.8	1.0	0.3	7.1	1.6	0.8	
								2	22.7	8.0	27.2	7.1	96.6	1.1	0.3					
							Middle	4.8	1	22.6	8.0	27.2	7.1	96.5	1.8	0.9				
								2	22.6	8.0	27.2	7.1	96.5	1.8	0.8					
							Bottom	8.6	1	22.6	8.0	27.3	7.1	96.4	1.9	1.3				
								2	22.6	8.0	27.2	7.1	96.1	2.0	1.4					
		TCE-WQM2a	Fine	Calm	19:19	7.6	Surface	1.0	1	22.2	7.9	27.8	6.9	92.8	1.9	0.3	6.9	2.4	0.7	
								2	22.2	7.9	27.8	6.9	92.8	1.9	0.3					
							Middle	3.8	1	22.0	7.9	28.3	6.8	92.1	2.4	0.6				
								2	21.9	7.9	28.5	6.8	91.9	2.3	0.6					
							Bottom	6.6	1	21.8	7.9	28.9	6.9	93.0	2.9	1.1				
								2	21.8	7.9	28.8	7.0	93.5	2.8	1.3					
	TCE-WQM2b	Fine	Calm	19:30	12.6	Surface	1.0	1	22.2	8.0	26.0	7.3	96.9	1.0	0.7	7.1	1.3	1.3		
							2	22.1	8.0	26.0	7.2	96.3	1.1	0.9						
						Middle	6.3	1	21.9	8.0	28.4	6.9	92.3	1.2	1.3					
							2	21.8	8.0	28.6	6.9	92.3	1.2	1.3						
						Bottom	11.6	1	21.8	8.0	28.8	7.0	93.6	1.8	1.6					
							2	21.8	8.0	28.7	7.0	94.7	1.8	1.7						
	TCE-WQM3A	Fine	Calm	19:11	4.6	Surface	1.0	1	22.4	8.0	27.3	6.9	93.3	2.5	1.5	6.9	3.1	2.0		
							2	22.3	8.0	27.4	6.9	93.3	2.4	1.5						
						Bottom	3.6	1	22.2	7.9	27.6	7.0	94.1	3.6	2.2					
	TCE-WQM4	Fine	Calm	19:01	4.0	Surface	1.0	1	22.6	8.0	27.6	7.1	96.8	1.7	0.7	7.1	1.7	0.8		
							2	22.5	8.0	27.6	7.1	96.8	1.7	0.8						
						Bottom	3.0	1	22.5	8.0	27.6	7.1	96.8	1.7	0.8					
	2023-04-14	Mid-Flood	TCE-C1	Fine	Calm	9:01	8.0	Surface	1.0	1	22.2	8.0	28.2	7.0	94.0	1.6	0.8	7.0	2.5	1.2
									2	22.2	8.0	28.3	7.0	94.1	1.5	0.7				
								Middle	4.0	1	22.1	8.0	28.6	7.0	94.3	2.0	1.2			
									2	22.1	8.0	28.6	7.0	94.4	2.1	1.4				
								Bottom	7.0	1	22.1	8.0	28.6	7.0	95.2	3.9	1.5			
									2	22.1	8.0	28.6	7.1	95.6	4.0	1.7				
			TCE-C2	Fine	Calm	7:30	12.6	Surface	1.0	1	21.7	8.0	27.4	6.8	90.6	1.6	1.3	6.7	2.0	1.8
									2	21.7	8.0	27.5	6.8	90.3	1.7	1.6				
								Middle	6.3	1	21.5	8.0	27.9	6.6	88.0	2.1	1.7			
									2	21.5	8.0	27.8	6.6	88.2	2.2	1.9				
								Bottom	11.6	1	21.5	8.0	27.1	6.8	89.7	2.2	2.4			
									2	21.5	8.0	26.9	6.8	89.9	2.3	2.1				
TCE-WQM1			Fine	Calm	8:41	9.0	Surface	1.0	1	22.3	8.0	27.6	7.1	95.5	1.6	3.8	7.1	2.5	3.6	
								2	22.3	8.0	27.7	7.1	95.5	1.5	4.2					
							Middle	4.5	1	22.3	8.0	27.7	7.1	95.5	2.8	3.6				
								2	22.3	8.0	27.7	7.1	95.6	2.9	3.9					
							Bottom	8.0	1	22.3	8.0	27.8	7.1	95.9	3.0	2.9				
								2	22.3	8.0	27.7	7.1	96.0	3.0	3.1					
TCE-WQM2a			Fine	Calm	8:11	6.2	Surface	1.0	1	22.3	8.0	27.6	6.9	93.5	1.1	2.5	6.9	1.8	1.8	
								2	22.3	8.0	27.6	6.9	93.5	1.1	2.2					
							Middle	3.1	1	22.2	8.0	27.3	7.0	93.5	1.7	1.8				
								2	22.2	8.0	27.4	6.9	93.4	1.7	1.7					
							Bottom	5.2	1	22.4	8.0	27.7	6.9	93.6	2.5	1.3				
								2	22.5	8.0	27.7	6.9	93.8	2.6	1.5					
TCE-WQM2b		Fine	Calm	8:00	11.2	Surface	1.0	1	22.2	7.9	24.7	7.2	95.0	1.0	2.4	7.1	1.4	1.8		
							2	22.2	7.9	24.6	7.2	95.0	1.0	2.2						
						Middle	5.6	1	22.2	7.9	26.4	7.1	95.0	1.1	1.9					
							2	22.2	7.9	26.4	7.1	95.2	1.1	1.6						
						Bottom	10.2	1	22.2	7.9	26.3	7.1	95.5	2.0	1.2					
							2	22.3	8.0	26.2	7.2	95.7	2.0	1.4						
TCE-WQM3A		Fine	Calm	8:21	4.2	Surface	1.0	1	22.3	8.0	27.1	6.9	92.4	1.9	1.7	6.9	2.0	2.0		
							2	22.3	8.0	27.1	6.9	92.2	1.9	1.4						
						Bottom	3.2	1	22.4	8.0	27.1	6.9	92.6	2.2	2.6					
TCE-WQM4		Fine	Calm	8:29	4.0	Surface	1.0	1	22.4	8.0	27.8	6.9	93.0	1.3	1.8	6.9	1.6	2.1		
							2	22.5	8.0	27.8	6.9	93.0	1.3	1.9						
						Bottom	3.0	1	22.7	7.9	27.7	6.9	93.3	1.9	2.1					
		2	22.7	7.9	27.7	6.9	93.6	2.0	2.5											











Date	Tide	Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Water Level	Sampling depth (m)	Replicate	Water Temperature (°C)	pH	Salinity (ppt)	Dissolved Oxygen (DO) (mg/L)	DO Saturation (%)	Turbidity (NTU)	Suspended Solids (SS) (mg/L)	Depth-averaged			
																	DO (mg/L)	Turbidity (NTU)	SS (mg/L)	
2023-04-26	Mid-Ebb	TCE-C1	Cloudy	Moderate	15:27	8.2	Surface	1.0	1	23.6	8.2	32.8	6.4	91.6	8.2	3.8	6.4	9.8	3.9	
									2	23.6	8.2	32.7	6.4	91.4	8.5	4.0				
							Middle	4.1	1	23.5	8.2	34.8	6.3	90.8	8.4	3.8				
									2	23.5	8.2	34.8	6.3	90.8	8.4	3.3				
							Bottom	7.2	1	23.5	8.2	34.7	6.3	90.9	12.6	3.6				
									2	23.5	8.2	34.7	6.3	91.0	12.8	4.8				
		TCE-C2	Cloudy	Moderate	17:25	12.6	Surface	1.0	1	24.1	8.2	28.4	7.0	98.4	0.9	1.7	6.7	2.8	1.9	
									2	24.1	8.2	28.4	7.0	98.4	0.9	1.6				
							Middle	6.3	1	23.6	8.2	33.0	6.5	91.8	1.4	1.8				
									2	23.6	8.2	33.0	6.5	91.8	1.5	2.6				
							Bottom	11.6	1	23.7	8.2	33.0	6.5	92.5	6.0	1.8				
									2	23.7	8.2	32.9	6.5	92.8	6.3	1.7				
	TCE-WQM1	Cloudy	Moderate	16:07	8.5	Surface	1.0	1	23.8	8.2	28.6	6.6	92.6	3.6	3.1	6.4	4.2	3.0		
								2	23.8	8.2	28.6	6.6	92.2	3.8	3.5					
						Middle	4.3	1	23.7	8.2	31.3	6.2	88.3	4.5	2.3					
								2	23.7	8.2	31.4	6.2	88.2	4.6	2.9					
						Bottom	7.5	1	23.7	8.2	31.8	6.2	88.3	4.3	2.6					
								2	23.7	8.2	31.8	6.2	88.3	4.3	3.3					
	TCE-WQM2a	Cloudy	Moderate	16:40	7.2	Surface	1.0	1	24.0	8.2	28.9	6.6	91.9	1.2	1.8	6.3	1.8	1.8		
								2	24.0	8.2	28.9	6.6	91.9	1.2	2.0					
						Middle	3.6	1	23.6	8.2	32.8	6.1	87.5	2.0	1.8					
								2	23.6	8.2	32.8	6.1	87.4	2.1	1.4					
						Bottom	6.2	1	23.6	8.2	32.9	6.1	87.1	2.0	1.9					
								2	23.6	8.2	32.8	6.1	87.2	2.0	1.6					
TCE-WQM2b	Cloudy	Moderate	16:51	11.9	Surface	1.0	1	24.0	8.2	28.9	6.8	94.7	1.2	1.1	6.4	2.0	1.7			
							2	24.0	8.2	28.9	6.8	94.7	1.2	1.6						
					Middle	6.0	1	23.5	8.2	33.1	6.1	87.3	2.9	1.6						
							2	23.5	8.2	33.1	6.2	87.6	2.8	2.5						
					Bottom	10.9	1	23.7	8.2	32.9	6.3	89.3	2.2	1.9						
							2	23.7	8.2	32.7	6.3	89.8	2.0	1.6						
TCE-WQM3A	Cloudy	Moderate	16:26	4.1	Surface	1.0	1	24.1	8.1	28.5	6.5	91.0	6.9	1.7	6.5	6.9	1.0			
							2	24.1	8.1	28.5	6.5	91.1	7.0	1.0						
					Bottom	3.1	1	24.0	8.1	28.6	6.5	91.4	6.8	0.7						
							2	24.0	8.1	28.6	6.8	95.0	6.9	0.7						
					Surface	1.0	1	24.1	8.2	27.7	7.0	98.1	1.2	1.7				7.0	5.4	2.5
							2	24.1	8.2	27.7	7.1	98.2	1.2	2.3						
Bottom	2.4	1	24.0	8.2	27.7	7.1	98.4	9.6	2.8											
		2	24.0	8.2	27.7	7.1	98.5	9.7	3.2											
Surface	1.0	1	23.6	8.2	31.4	6.8	95.8	6.7	2.6	6.6	8.1	3.3								
		2	23.6	8.2	31.4	6.8	95.8	6.7	3.3											
Middle	4.4	1	23.5	8.2	34.8	6.4	92.1	9.5	4.1											
		2	23.5	8.2	34.8	6.4	92.2	10.0	3.8											
Bottom	7.8	1	23.5	8.2	34.7	6.5	93.0	7.8	2.2											
		2	23.5	8.2	34.7	6.5	93.2	8.0	4.0											
TCE-C2	Cloudy	Moderate	4:18	13.0	Surface	1.0	1	23.5	8.2	32.7	6.2	87.6	1.6	2.3	6.1	2.9	2.2			
							2	23.5	8.2	32.8	6.2	87.6	1.7	1.9						
					Middle	6.5	1	23.4	8.2	34.1	6.1	86.6	3.2	1.9						
							2	23.4	8.2	34.1	6.1	86.6	3.4	2.1						
					Bottom	12.0	1	23.4	8.2	34.2	6.1	86.9	3.8	2.2						
							2	23.4	8.2	34.2	6.1	87.0	3.7	2.7						
TCE-WQM1	Cloudy	Moderate	5:38	8.5	Surface	1.0	1	23.8	8.1	29.1	6.4	89.4	2.9	2.2	6.3	3.0	1.9			
							2	23.8	8.1	29.4	6.4	89.3	3.0	1.9						
					Middle	4.3	1	23.8	8.1	30.3	6.3	88.2	3.2	1.9						
							2	23.8	8.1	30.4	6.3	88.1	3.2	1.4						
					Bottom	7.5	1	23.8	8.1	30.9	6.2	88.1	3.0	1.6						
							2	23.8	8.2	30.9	6.2	88.2	2.9	2.4						
TCE-WQM2a	Cloudy	Moderate	5:06	7.7	Surface	1.0	1	23.9	8.1	28.5	6.4	89.9	1.7	1.4	6.2	2.1	1.8			
							2	23.9	8.1	28.5	6.4	89.9	1.7	1.9						
					Middle	3.9	1	23.8	8.1	32.1	5.9	84.2	2.2	2.2						
							2	23.8	8.1	32.2	5.9	84.2	2.3	1.5						
					Bottom	6.7	1	23.8	8.1	32.4	6.0	85.8	2.3	1.9						
							2	23.8	8.1	32.4	6.0	85.8	2.3	1.7						
TCE-WQM2b	Cloudy	Moderate	4:54	10.3	Surface	1.0	1	23.8	8.2	28.3	6.7	92.7	1.7	1.7	6.3	3.0	2.5			
							2	23.8	8.2	28.3	6.7	92.6	1.8	2.3						
					Middle	5.2	1	23.6	8.2	32.5	6.0	85.2	3.6	2.0						
							2	23.6	8.2	32.6	6.0	85.2	3.6	2.1						
					Bottom	9.3	1	23.6	8.2	32.7	6.1	86.1	3.8	3.5						
							2	23.6	8.2	32.7	6.1	86.2	3.6	3.3						
TCE-WQM3A	Cloudy	Moderate	5:17	4.5	Surface	1.0	1	23.9	8.1	27.4	6.6	91.9	3.9	2.2	6.6	5.9	2.6			
							2	24.0	8.1	27.5	6.6	91.6	4.2	2.4						
					Bottom	3.5	1	23.8	8.2	28.2	6.5	89.9	8.0	2.5						
							2	23.7	8.2	28.2	6.5	90.3	7.6	3.2						
					Surface	1.0	1	24.0	8.1	27.7	6.7	93.8	1.1	1.4				6.7	1.3	1.6
							2	24.0	8.1	27.7	6.7	93.8	1.1	2.0						
Bottom	3.0	1	24.0	8.1	29.1	6.5	91.3	1.4	1.4											
		2	24.0	8.1	29.2	6.5	91.2	1.5	1.5											

Water Quality Monitoring for Tung Chung New Town Extension (East)

Date	Tide	Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Water Level	Sampling depth (m)	Replicate	Water Temperature (°C)	pH	Salinity (ppt)	Dissolved Oxygen (DO) (mg/L)	DO Saturation (%)	Turbidity (NTU)	Suspended Solids (SS) (mg/L)	Depth-averaged				
																	DO (mg/L)	Turbidity (NTU)	SS (mg/L)		
2023-04-28	Mid-Ebb	TCE-C1	Sunny	Calm	17:37	8.6	Surface	1.0	1	23.7	8.1	33.5	6.9	98.7	1.7	1.8	6.7	2.4	2.2		
									2	23.6	8.1	33.5	6.7	95.4	1.7	1.8					
							Middle	4.3	1	23.7	8.1	33.5	6.6	94.5	2.6	2.4					
									2	23.7	8.1	33.5	6.6	94.4	2.5	2.2					
							Bottom	7.6	1	23.8	8.1	33.3	6.6	94.8	3.0	2.6					
									2	23.8	8.1	33.2	6.7	95.9	3.0	2.4					
				TCE-C2	Sunny	Calm	19:56	14.2	Surface	1.0	1	23.7	8.1	33.7	6.7	95.8	1.0	1.6	6.7	1.4	2.2
									2	23.7	8.1	33.7	6.7	95.9	1.0	1.8					
		Middle	7.1						1	23.7	8.1	33.7	6.7	96.5	1.4	2.4					
									2	23.7	8.1	33.7	6.8	96.8	1.5	2.2					
		Bottom	13.2						1	23.7	8.1	33.7	6.8	97.7	1.8	2.8					
			2						23.7	8.1	33.7	6.9	98.4	1.8	2.6						
			TCE-WQM1	Sunny	Calm	17:53	9.4	Surface	1.0	1	23.8	8.1	31.8	7.1	100.8	1.3	1.2	7.1	1.7	1.5	
								2	23.8	8.1	31.9	7.1	100.7	1.3	1.4						
	Middle	4.7						1	23.8	8.1	32.2	7.1	100.7	1.7	1.5						
								2	23.8	8.1	32.2	7.1	100.7	1.7	1.5						
	Bottom	8.4						1	23.8	8.1	32.2	7.2	101.8	2.1	1.7						
								2	23.9	8.1	31.7	7.2	102.9	2.1	1.8						
			TCE-WQM2a	Sunny	Calm	19:19	7.8	Surface	1.0	1	23.8	8.1	32.4	6.9	98.4	1.1	0.9	6.9	1.5	0.7	
								2	23.8	8.1	32.4	6.9	98.4	1.1	0.7						
	Middle	3.9						1	23.9	8.1	32.3	6.9	98.9	1.4	0.6						
								2	23.9	8.1	32.2	7.0	99.2	1.3	0.7						
	Bottom	6.8						1	23.9	8.1	32.1	7.0	100.4	2.0	0.7						
								2	24.0	8.1	32.1	7.1	101.1	2.1	0.5						
			TCE-WQM2b	Sunny	Calm	19:32	11.0	Surface	1.0	1	23.8	8.1	32.6	6.8	97.3	1.0	1.9	6.8	1.5	2.6	
								2	23.8	8.1	32.6	6.8	97.3	1.0	1.6						
	Middle	5.5						1	23.8	8.1	32.6	6.9	97.9	1.7	2.3						
								2	23.8	8.1	32.6	6.9	98.1	1.7	2.7						
	Bottom	10.0						1	23.8	8.1	32.6	6.9	98.8	1.9	3.4						
								2	23.8	8.1	32.6	7.0	99.2	1.9	3.6						
			TCE-WQM3A	Sunny	Calm	19:08	4.4	Surface	1.0	1	24.0	8.1	31.3	7.0	99.4	1.6	0.7	7.0	1.8	1.1	
								2	24.0	8.1	31.3	7.0	99.6	1.5	0.9						
	Bottom	3.4						1	24.0	8.1	31.3	7.1	100.7	2.0	1.3						
								2	24.1	8.1	31.3	7.2	101.8	2.0	1.5						
	Surface	1.0						1	24.1	8.1	31.5	7.0	100.3	1.1	1.7						
		2						24.1	8.1	31.6	7.1	100.5	1.1	1.5							
		TCE-WQM4	Sunny	Calm	18:57	4.2	Surface	1.0	1	24.2	8.1	31.5	7.1	101.4	1.9	1.2	7.1	1.5	1.4		
							2	24.2	8.1	31.5	7.1	101.4	1.9	1.2							
Bottom	3.2						1	24.2	8.1	31.5	7.1	101.1	1.9	1.1							
							2	24.2	8.1	31.5	7.1	101.1	1.9	1.2							
Surface	1.0						1	23.7	8.1	33.5	7.0	100.2	1.2	1.9							
							2	23.7	8.1	33.5	7.0	100.2	1.2	1.8							
		TCE-C1	Sunny	Calm	8:29	8.2	Middle	4.1	1	23.7	8.1	33.5	7.0	100.5	1.8	2.1	7.0	1.8	2.2		
							2	23.7	8.1	33.5	7.0	100.9	1.8	2.3							
Bottom	7.2						1	23.7	8.1	33.6	7.3	104.0	2.5	2.8							
							2	23.7	8.1	33.6	7.3	104.0	2.5	2.5							
Surface	1.0						1	23.6	8.0	33.8	6.0	86.3	1.1	0.7							
							2	23.6	8.0	33.8	6.0	86.3	1.1	0.9							
		TCE-C2	Sunny	Calm	6:57	12.4	Middle	6.2	1	23.6	8.0	33.8	6.0	86.3	2.0	1.2	6.0	1.8	1.2		
							2	23.6	8.0	33.8	6.0	86.3	2.0	1.1							
Bottom	11.4						1	23.6	8.0	33.8	6.0	86.4	2.1	1.4							
							2	23.7	8.0	33.8	6.1	86.7	2.1	1.6							
Surface	1.0						1	23.9	8.1	31.3	7.1	100.3	1.3	1.8							
							2	23.9	8.1	31.4	7.1	100.2	1.3	1.6							
		TCE-WQM1	Sunny	Calm	8:08	8.8	Middle	4.4	1	23.8	8.1	31.9	7.0	99.9	2.1	2.1	7.0	2.0	2.1		
							2	23.7	8.1	32.3	7.0	99.7	2.0	2.4							
Bottom	7.8						1	23.7	8.1	32.9	7.0	99.9	2.7	2.5							
							2	23.7	8.1	32.9	7.0	100.0	2.7	2.4							
Surface	1.0						1	23.7	8.1	32.3	6.8	96.7	1.2	1.5							
							2	23.7	8.1	32.3	6.8	96.7	1.2	1.7							
		TCE-WQM2a	Sunny	Calm	7:38	6.6	Middle	3.3	1	23.7	8.1	32.3	6.8	96.2	1.7	2.3	6.8	1.6	2.1		
							2	23.8	8.1	32.2	6.8	96.2	1.7	2.1							
Bottom	5.6						1	23.9	8.1	32.1	6.8	97.3	2.0	2.6							
							2	23.9	8.1	32.0	6.9	97.9	2.1	2.4							
Surface	1.0						1	23.8	8.0	32.2	6.7	94.8	1.3	1.0							
							2	23.8	8.0	32.2	6.7	94.8	1.3	1.3							
		TCE-WQM2b	Sunny	Calm	7:27	11.0	Middle	5.5	1	23.8	8.0	32.2	6.6	94.4	2.4	1.7	6.6	2.4	1.7		
							2	23.9	8.0	32.2	6.6	94.5	2.4	1.9							
Bottom	10.0						1	24.0	8.0	32.0	6.8	96.5	3.5	2.4							
							2	24.0	8.0	31.9	6.8	97.4	3.5	2.1							
Surface	1.0						1	24.0	8.0	31.2	6.9	97.8	2.9	1.4							
							2	24.0	8.0	31.2	6.9	98.0	2.8	1.7							
		TCE-WQM3A	Sunny	Calm	7:48	4.4	Bottom	3.4	1	24.2	8.0	31.1	7.0	99.5	3.0	2.1	6.9	2.9	1.9		
							2	24.2	8.0	31.1	7.0	99.5	3.0	2.1							
Surface	1.0						1	24.0	8.1	31.4	6.9	97.5	2.0	2.1							
							2	24.1	8.1	31.4	6.9	97.7	2.1	2.5							
Bottom	3.2						1	24.2	8.1	31.6	6.9	99.0	2.4	3.0							
							2	24.2	8.1	31.5	7.0	99.7	2.4	3.4							

Annex G4

## Event and Action Plan for Water Quality

**Annex G4**     *Event and Action Plan for Water Quality*

<b>Event</b>	<b>ET</b>	<b>IEC</b>	<b>Action ER</b>	<b>Contractor</b>
Action level exceedance for one sampling day	<ol style="list-style-type: none"> <li>1. Inform IEC, Contractor and ER;</li> <li>2. Check monitoring data, all plant, equipment and Contractor's working methods;</li> <li>3. Discuss remedial measures with IEC and Contractor and ER.</li> </ol>	<ol style="list-style-type: none"> <li>1. Discuss with ET, ER and Contractor on the implemented mitigation measures;</li> <li>2. Review proposals on remedial measures submitted by Contractor and advise the ER accordingly; and</li> <li>3. Review and advise the ET and ER on the effectiveness of the implemented mitigation measures.</li> </ol>	<ol style="list-style-type: none"> <li>1. Discuss with IEC, ET and Contractor on the implemented mitigation measures;</li> <li>2. Make agreement on the remedial measures to be implemented;</li> <li>3. Supervise the implementation of agreed remedial measures.</li> </ol>	<ol style="list-style-type: none"> <li>1. Identify source(s) of impact;</li> <li>2. Inform the ER and confirm notification of the non-compliance in writing;</li> <li>3. Rectify unacceptable practice;</li> <li>4. Check all plant and equipment;</li> <li>5. Consider changes of working methods;</li> <li>6. Discuss with ER, ET and IEC and purpose remedial measures to IEC and ER; and</li> <li>7. Implement the agreed mitigation measures.</li> </ol>
Action level exceedance for more than one consecutive sampling days	<ol style="list-style-type: none"> <li>1. Repeat in-situ measurement on next day of exceedance to confirm findings;</li> <li>2. Inform IEC, contractor and ER;</li> <li>3. Check monitoring data, all plant, equipment and Contractor's working methods;</li> <li>4. Discuss remedial measures with IEC, contractor and ER</li> <li>5. Ensure remedial measures are implemented</li> </ol>	<ol style="list-style-type: none"> <li>1. Discuss with ET, Contractor and ER on the implemented mitigation measures;</li> <li>2. Review the proposed remedial measures submitted by Contractor and advise the ER accordingly; and</li> <li>3. Review and advise the ET and ER on the effectiveness of the implemented mitigation measures.</li> </ol>	<ol style="list-style-type: none"> <li>1. Discuss with ET, IEC and Contractor on the proposed mitigation measures;</li> <li>2. Make agreement on the remedial measures to be implemented ; and</li> <li>3. Discuss with ET, IEC and Contractor on the effectiveness of the implemented remedial measures.</li> </ol>	<ol style="list-style-type: none"> <li>1. Identify source(s) of impact;</li> <li>2. Inform the ER and confirm notification of the non-compliance in writing;</li> <li>3. Rectify unacceptable practice;</li> <li>4. Check all plant and equipment and consider changes of working methods;</li> <li>5. Discuss with ET, IEC and ER and submit proposal of remedial measures to ER and IEC within 3 working days of notification; and</li> <li>6. Implement the agreed mitigation measures.</li> </ol>

Event	Action			
	ET	IEC	ER	Contractor
Limit level exceedance for one sampling day	<ol style="list-style-type: none"> <li>1. Repeat measurement on next day of exceedance to confirm findings;</li> <li>2. Inform IEC, contractor and ER;</li> <li>3. Rectify unacceptable practice;</li> <li>4. Check monitoring data, all plant, equipment and Contractor's working methods;</li> <li>5. Consider changes of working methods;</li> <li>6. Discuss mitigation measures with IEC, ER and Contractor; and</li> <li>7. Ensure the agreed remedial measures are implemented</li> </ol>	<ol style="list-style-type: none"> <li>1. Discuss with ET, Contractor and ER on the implemented mitigation measures;</li> <li>2. Review the proposed remedial measures submitted by Contractor and advise the ER accordingly; and</li> <li>3. Review and advise the ET and ER on the effectiveness of the implemented mitigation measures.</li> </ol>	<ol style="list-style-type: none"> <li>1. Discuss with ET, IEC and Contractor on the implemented remedial measures;</li> <li>2. Request Contractor to critically review the working methods;</li> <li>3. Make agreement on the remedial measures to be implemented; and</li> <li>4. Discuss with ET, IEC and Contractor on the effectiveness of the implemented remedial measures.</li> </ol>	<ol style="list-style-type: none"> <li>1. Identify source(s) of impact;</li> <li>2. Inform the ER and confirm notification of the non-compliance in writing;</li> <li>3. Rectify unacceptable practice;</li> <li>4. Check all plant and equipment and consider changes of working methods;</li> <li>5. Discuss with ET, IEC and ER and submit proposal of additional mitigation measures to ER and IEC within 3 working days of notification; and</li> <li>6. Implement the agreed remedial measures.</li> </ol>
Limit level exceedance for more than one consecutive sampling days	<ol style="list-style-type: none"> <li>1. Inform IEC, contractor and ER;</li> <li>2. Check monitoring data, all plant, equipment and Contractor's working methods;</li> <li>3. Discuss mitigation measures with IEC, ER and Contractor; and</li> <li>4. Ensure mitigation measures are implemented; and</li> <li>5. Increase the monitoring frequency to daily until no exceedance of Limit Level for two consecutive days</li> </ol>	<ol style="list-style-type: none"> <li>1. Discuss with ET, Contractor and ER on the implemented mitigation measures;</li> <li>2. Review the proposed remedial measures submitted by Contractor and advise the ER accordingly; and</li> <li>3. Review and advise the ET and ER on the effectiveness of the implemented mitigation measures.</li> </ol>	<ol style="list-style-type: none"> <li>1. Discuss with ET, IEC and Contractor on the implemented remedial measures;</li> <li>2. Request Contractor to critically review the working methods;</li> <li>3. Make agreement on the remedial measures to be implemented;</li> <li>4. Discuss with ET and IEC on the effectiveness of the implemented mitigation measures; and</li> <li>5. Consider and instruct, if necessary, the Contractor to slow down or to stop all or part of the dredging activities until no exceedance of Limit level.</li> </ol>	<ol style="list-style-type: none"> <li>1. Identify source(s) of impact;</li> <li>2. Inform the ER and confirm notification of the non-compliance in writing;</li> <li>3. Rectify unacceptable practice;</li> <li>4. Check all plant and equipment and consider changes of working methods;</li> <li>5. Discuss with ET, IEC and ER and submit proposal of additional mitigation measures to ER and IEC within 3 working days of notification; and</li> <li>6. Implement the agreed remedial measures.</li> <li>7. As directed by the ER, to slow down or stop all or part of the dredging activities until no exceedance of Limit level.</li> </ol>