

## **Appendix D. Monitoring Results**

## **Air Quality Monitoring Results**

**1-hour TSP Results**

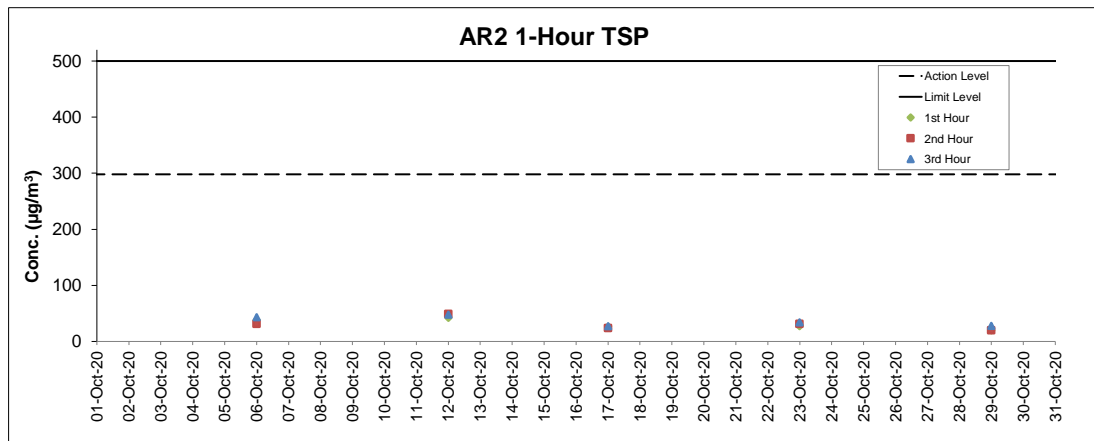
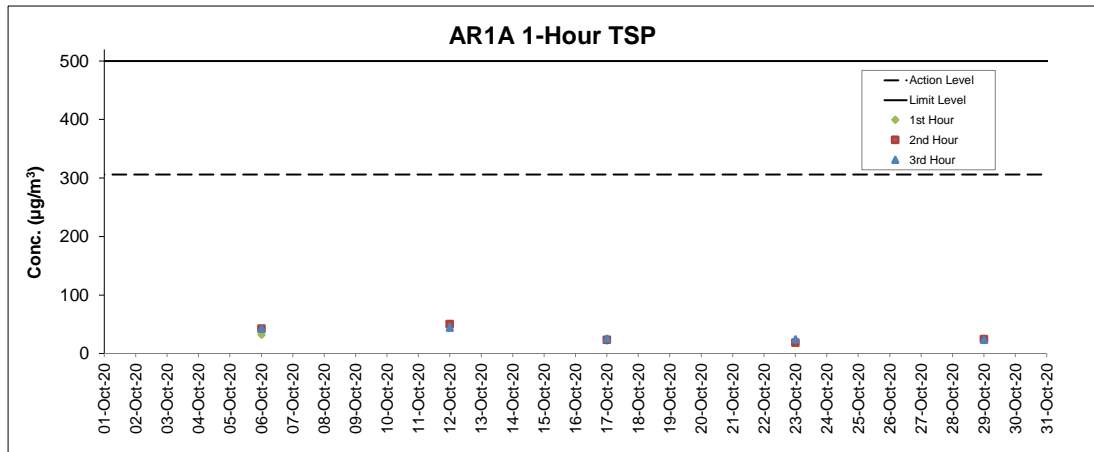
**Station: AR1A- Man Tung Road Park**

Date	Time	Weather	Wind Speed (m/s)	Wind Direction (deg)	1-hr TSP ( $\mu\text{g}/\text{m}^3$ )	Action Level ( $\mu\text{g}/\text{m}^3$ )	Limit Level ( $\mu\text{g}/\text{m}^3$ )
06-Oct-20	13:53	Cloudy	3.3	48	32	306	500
06-Oct-20	14:53	Cloudy	4.7	44	42	306	500
06-Oct-20	15:53	Cloudy	4.7	30	42	306	500
12-Oct-20	14:02	Cloudy	4.7	81	45	306	500
12-Oct-20	15:02	Cloudy	5.8	73	50	306	500
12-Oct-20	16:02	Cloudy	6.4	100	44	306	500
17-Oct-20	9:36	Cloudy	5.3	36	22	306	500
17-Oct-20	10:36	Cloudy	5.0	36	23	306	500
17-Oct-20	11:36	Cloudy	5.0	13	25	306	500
23-Oct-20	13:58	Sunny	5.3	16	20	306	500
23-Oct-20	14:58	Sunny	5.3	33	18	306	500
23-Oct-20	15:58	Sunny	4.7	26	24	306	500
29-Oct-20	14:07	Cloudy	3.3	28	25	306	500
29-Oct-20	15:07	Cloudy	3.1	22	24	306	500
29-Oct-20	16:07	Cloudy	3.1	9	23	306	500

**1-hour TSP Results**

**Station: AR2- Village House, Tin Sum**

Date	Time	Weather	Wind Speed (m/s)	Wind Direction (deg)	1-hr TSP ( $\mu\text{g}/\text{m}^3$ )	Action Level ( $\mu\text{g}/\text{m}^3$ )	Limit Level ( $\mu\text{g}/\text{m}^3$ )
06-Oct-20	9:05	Cloudy	5.3	45	38	298	500
06-Oct-20	10:05	Cloudy	5.3	42	31	298	500
06-Oct-20	11:05	Cloudy	5.3	47	43	298	500
12-Oct-20	9:08	Cloudy	4.2	47	42	298	500
12-Oct-20	10:08	Cloudy	4.7	67	49	298	500
12-Oct-20	11:08	Cloudy	4.7	83	48	298	500
17-Oct-20	13:41	Cloudy	5.3	41	26	298	500
17-Oct-20	14:41	Cloudy	5.0	51	24	298	500
17-Oct-20	15:41	Cloudy	5.8	66	27	298	500
23-Oct-20	10:02	Sunny	6.7	28	27	298	500
23-Oct-20	11:02	Sunny	6.1	14	31	298	500
23-Oct-20	12:02	Sunny	5.8	30	34	298	500
29-Oct-20	9:16	Cloudy	3.9	41	20	298	500
29-Oct-20	10:16	Cloudy	4.2	31	20	298	500
29-Oct-20	11:16	Cloudy	3.3	31	28	298	500



**Notes**

1. Major site activities carried out during the reporting period are summarized in Section 1.4 of the monthly EM&A report.
2. Weather conditions during monitoring are presented in the data tables above.
3. QA/QC requirements as stipulated in the EM&A Manual were carried out during measurement.

## Noise Monitoring Results

### Noise Measurement Results

#### Station: NM1A- Man Tung Road Park

Date	Weather	Time	Measured L <sub>10</sub> dB(A)	Measured L <sub>90</sub> dB(A)	L <sub>eq(30mins)</sub> dB(A)
06-Oct-20	Cloudy	14:02	66.9	59.1	70
06-Oct-20	Cloudy	14:07	68.7	59.0	
06-Oct-20	Cloudy	14:12	74.2	59.9	
06-Oct-20	Cloudy	14:17	68.6	60.0	
06-Oct-20	Cloudy	14:22	69.9	61.3	
06-Oct-20	Cloudy	14:27	71.9	60.9	
12-Oct-20	Cloudy	14:05	66.7	56.9	66
12-Oct-20	Cloudy	14:10	66.9	56.9	
12-Oct-20	Cloudy	14:15	67.0	57.1	
12-Oct-20	Cloudy	14:20	61.0	52.2	
12-Oct-20	Cloudy	14:25	63.3	52.3	
12-Oct-20	Cloudy	14:30	68.0	57.7	
23-Oct-20	Sunny	14:01	65.8	58.2	68
23-Oct-20	Sunny	14:06	66.9	61.2	
23-Oct-20	Sunny	14:11	68.7	61.1	
23-Oct-20	Sunny	14:16	68.3	61.1	
23-Oct-20	Sunny	14:21	65.7	62.7	
23-Oct-20	Sunny	14:26	67.2	63.1	
29-Oct-20	Cloudy	14:13	65.0	60.8	69
29-Oct-20	Cloudy	14:18	70.2	63.9	
29-Oct-20	Cloudy	14:23	70.3	57.4	
29-Oct-20	Cloudy	14:28	69.3	58.0	
29-Oct-20	Cloudy	14:33	67.8	62.0	
29-Oct-20	Cloudy	14:38	66.3	56.7	

Remarks:

+3dB (A) correction was applied to free-field measurement.

### Noise Measurement Results

#### Station: NM4- Ching Chung Hau Po Woon Primary School

Date	Weather	Time	Measured L <sub>10</sub> dB(A)	Measured L <sub>90</sub> dB(A)	L <sub>eq(30mins)</sub> dB(A)
05-Oct-20	Cloudy	13:09	61.4	54.0	66
05-Oct-20	Cloudy	13:14	64.7	58.1	
05-Oct-20	Cloudy	13:19	63.2	57.9	
05-Oct-20	Cloudy	13:24	64.5	58.2	
05-Oct-20	Cloudy	13:29	63.9	58.9	
05-Oct-20	Cloudy	13:34	64.8	59.0	
16-Oct-20	Cloudy	14:32	60.5	57.1	62
16-Oct-20	Cloudy	14:37	59.8	55.6	
16-Oct-20	Cloudy	14:42	61.5	56.7	
16-Oct-20	Cloudy	14:47	59.8	56.0	
16-Oct-20	Cloudy	14:52	61.4	55.7	
16-Oct-20	Cloudy	14:57	61.6	56.3	
21-Oct-20	Cloudy	13:02	63.1	57.6	60
21-Oct-20	Cloudy	13:07	63.4	58.6	
21-Oct-20	Cloudy	13:12	65.5	59.3	
21-Oct-20	Cloudy	13:17	64.7	59.8	
21-Oct-20	Cloudy	13:22	63.3	59.0	
21-Oct-20	Cloudy	13:27	62.9	59.5	
30-Oct-20	Cloudy	11:32	62.0	57.6	63
30-Oct-20	Cloudy	11:37	61.9	57.3	
30-Oct-20	Cloudy	11:42	61.3	57.2	
30-Oct-20	Cloudy	11:47	62.6	57.1	
30-Oct-20	Cloudy	11:52	60.6	57.4	
30-Oct-20	Cloudy	11:57	61.9	56.9	

Remarks:

+3dB (A) correction was applied to free-field measurement.

### Noise Measurement Results

#### Station: NM5- Village House, Tin Sum

Date	Weather	Time	Measured L <sub>10</sub> dB(A)	Measured L <sub>90</sub> dB(A)	L <sub>eq(30mins)</sub> dB(A)
06-Oct-20	Cloudy	09:08	59.1	54.2	62
06-Oct-20	Cloudy	09:13	60.3	54.7	
06-Oct-20	Cloudy	09:18	61.5	54.5	
06-Oct-20	Cloudy	09:23	60.6	54.1	
06-Oct-20	Cloudy	09:28	64.5	55.9	
06-Oct-20	Cloudy	09:33	68.3	56.6	
12-Oct-20	Cloudy	10:28	69.9	53.3	64
12-Oct-20	Cloudy	10:33	62.0	56.3	
12-Oct-20	Cloudy	10:38	61.6	55.2	
12-Oct-20	Cloudy	10:43	59.3	51.9	
12-Oct-20	Cloudy	10:48	59.6	53.4	
12-Oct-20	Cloudy	10:53	60.7	53.7	
23-Oct-20	Sunny	10:05	57.6	51.0	70
23-Oct-20	Sunny	10:10	64.3	51.7	
23-Oct-20	Sunny	10:15	61.3	51.7	
23-Oct-20	Sunny	10:20	62.1	51.8	
23-Oct-20	Sunny	10:25	62.6	50.5	
23-Oct-20	Sunny	10:30	56.7	51.4	
29-Oct-20	Cloudy	9:25	60.6	55.2	64
29-Oct-20	Cloudy	9:30	62.8	55.6	
29-Oct-20	Cloudy	9:35	68.4	57.0	
29-Oct-20	Cloudy	9:40	66.4	56.5	
29-Oct-20	Cloudy	9:45	64.4	56.0	
29-Oct-20	Cloudy	9:50	61.5	56.2	

Remarks:

+3dB (A) correction was applied to free-field measurement.

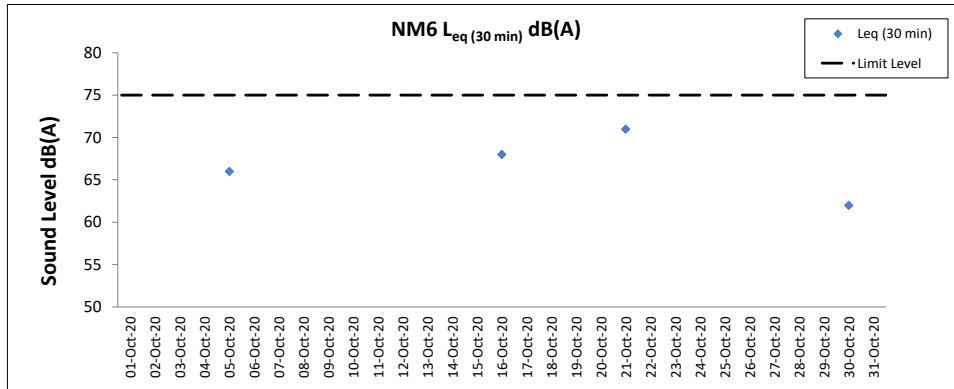
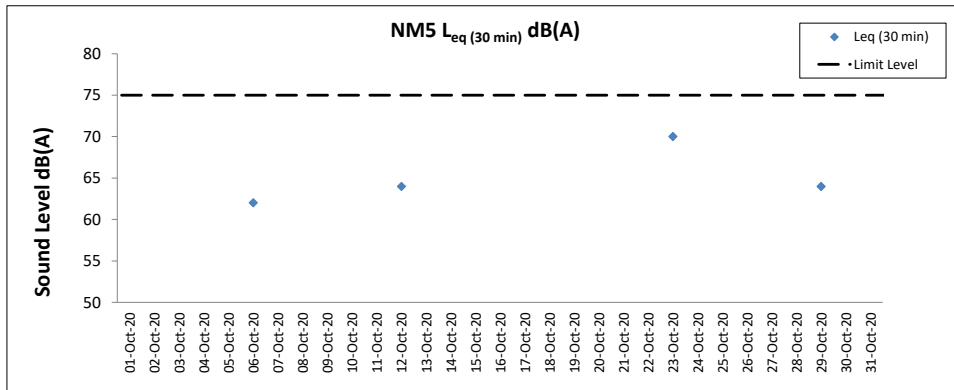
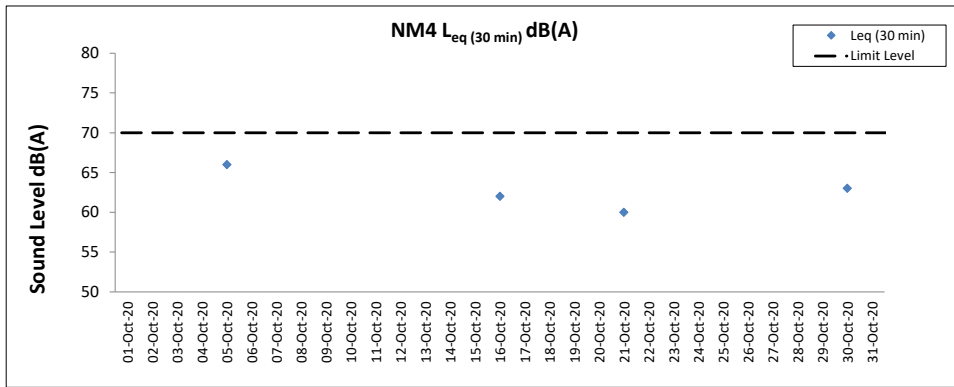
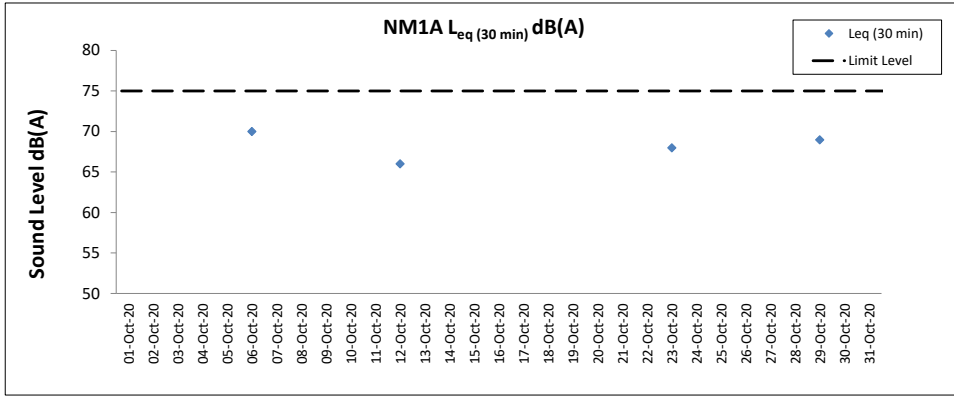
### Noise Measurement Results

#### Station: NM6- House No.1 Sha Lo Wan

Date	Weather	Time	Measured L <sub>10</sub> dB(A)	Measured L <sub>90</sub> dB(A)	L <sub>eq(30mins)</sub> dB(A)
05-Oct-20	Cloudy	15:42	68.8	58.1	66
05-Oct-20	Cloudy	15:47	68.5	61.9	
05-Oct-20	Cloudy	15:52	70.6	65.1	
05-Oct-20	Cloudy	15:57	69.4	64.6	
05-Oct-20	Cloudy	16:02	66.7	63.3	
05-Oct-20	Cloudy	16:07	68.5	63.9	
16-Oct-20	Cloudy	15:42	72.4	54.0	68
16-Oct-20	Cloudy	15:47	67.5	44.7	
16-Oct-20	Cloudy	15:52	73.5	54.8	
16-Oct-20	Cloudy	15:57	65.8	51.4	
16-Oct-20	Cloudy	16:02	66.2	51.2	
16-Oct-20	Cloudy	16:07	55.5	50.9	
21-Oct-20	Cloudy	15:49	69.3	55.0	71
21-Oct-20	Cloudy	15:54	72.8	58.3	
21-Oct-20	Cloudy	15:59	79.2	54.5	
21-Oct-20	Cloudy	16:04	67.9	54.3	
21-Oct-20	Cloudy	16:09	68.7	55.4	
21-Oct-20	Cloudy	16:14	63.0	54.5	
30-Oct-20	Cloudy	9:46	69.1	60.7	62
30-Oct-20	Cloudy	9:51	65.1	58.8	
30-Oct-20	Cloudy	9:56	64.2	58.8	
30-Oct-20	Cloudy	10:01	65.2	58.8	
30-Oct-20	Cloudy	10:06	71.5	59.4	
30-Oct-20	Cloudy	10:11	65.8	60.2	

Remarks:

+3dB (A) correction was applied to free-field measurement.



Notes

1. Major site activities carried out during the reporting period are summarized in Section 1.4 of the monthly EM&A report.
2. Weather conditions during monitoring are presented in the data tables above.
3. QA/QC requirements as stipulated in the EM&A Manual were carried out during measurement.

## **Water Quality Monitoring Results**



Expansion of Hong Kong International Airport into a Three-Runway System  
Water Quality Monitoring

Water Quality Monitoring Results on 01 October 20 during Mid-Ebb Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)	Current Speed (m/s)		Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity (NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)							
						Value	Average		Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA				
						Value	Average		Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA	Value	DA		
C1	Fine	Moderate	12:13	9.6	Surface	1.0	0.9	15	29.2	29.2	8.3	8.3	29.1	29.1	92.4	92.4	6.0	6.0	5.5	5.5	6	6	89	89	92	815624	804253	<0.2	0.6	0.5	0.5					
						1.0	0.9	15	29.2	29.2	8.3	8.3	29.1	29.1	92.4	92.4	6.0	6.0	5.5	5.5	6	6	90	90	92	815624	804253	<0.2	0.6	0.5	0.5					
						4.8	1.0	8	29.0	29.0	8.3	8.3	30.0	30.0	90.2	90.2	5.9	5.9	5.4	5.4	7	7	93	93	92	815624	804253	<0.2	0.6	0.5	0.5					
					Middle	4.8	1.1	8	29.0	29.0	8.3	8.3	30.1	30.0	90.2	90.2	5.9	5.9	5.6	5.6	8	8	94	94	92	815624	804253	<0.2	0.6	0.5	0.5					
						8.6	0.2	13	28.9	28.9	8.3	8.3	30.8	30.8	86.1	86.2	5.6	5.6	15.0	15.0	8	8	94	94	92	815624	804253	<0.2	0.6	0.5	0.5					
						8.6	0.3	13	28.9	28.9	8.3	8.3	30.8	30.8	86.2	86.2	5.6	5.6	14.8	14.8	8	8	94	94	92	815624	804253	<0.2	0.6	0.5	0.5					
					C2	Sunny	Moderate	11:05	11.4	Surface	1.0	0.3	170	28.9	28.9	7.9	7.9	23.8	23.8	86.9	86.9	5.9	5.9	3.6	3.6	4	4	83	83	87	825694	806968	<0.2	1.2	1.2	1.1
											1.0	0.3	172	28.9	28.9	7.9	7.9	23.8	23.8	86.9	86.9	5.9	5.9	3.5	3.5	4	4	83	83	87	825694	806968	<0.2	1.2	1.2	1.1
											5.7	0.1	219	28.6	28.6	7.9	7.9	26.2	26.2	81.6	81.6	5.5	5.5	8.6	8.6	5	5	87	87	91	825694	806968	<0.2	1.1	1.1	1.1
Middle	5.7	0.1	237	28.6						28.6	7.9	7.9	26.2	26.2	81.5	81.5	5.5	5.5	8.5	8.5	6	6	87	87	91	825694	806968	<0.2	1.1	1.1	1.1					
	10.4	0.1	150	28.6						28.6	8.0	8.0	27.7	27.7	78.7	78.7	5.2	5.2	8.2	8.2	7	7	91	91	91	825694	806968	<0.2	1.1	1.1	1.1					
	10.4	0.1	158	28.6						28.6	8.0	8.0	27.7	27.7	78.7	78.7	5.2	5.2	8.2	8.2	6	6	91	91	91	825694	806968	<0.2	1.1	1.1	1.1					
C3	Sunny	Moderate	13:03	12.6						Surface	1.0	0.4	58	28.8	28.8	7.9	7.9	26.7	26.7	87.4	87.4	5.8	5.8	3.8	3.8	5	5	84	84	88	822117	817801	<0.2	0.9	0.9	1.0
											1.0	0.4	62	28.8	28.8	7.9	7.9	26.7	26.7	87.4	87.4	5.8	5.8	3.8	3.8	4	4	84	84	88	822117	817801	<0.2	0.9	0.9	1.0
											6.3	0.3	85	28.6	28.6	7.9	7.9	27.4	27.4	83.1	83.1	5.5	5.5	4.1	4.1	6	6	87	87	91	822117	817801	<0.2	0.9	0.9	1.0
					Middle	6.3	0.3	86	28.6	28.6	7.9	7.9	27.4	27.4	83.1	83.1	5.5	5.5	4.1	4.1	5	5	88	88	91	822117	817801	<0.2	0.9	0.9	1.0					
						11.6	0.3	41	28.5	28.5	8.0	8.0	28.8	28.8	77.6	77.6	5.1	5.1	7.0	7.0	6	6	91	91	92	822117	817801	<0.2	1.0	1.0	1.0					
						11.6	0.3	44	28.5	28.5	8.0	8.0	28.8	28.8	77.6	77.6	5.1	5.1	6.8	6.8	6	6	92	92	92	822117	817801	<0.2	1.0	1.0	1.0					
					IM1	Fine	Moderate	11:54	5.6	Surface	1.0	0.4	6	29.3	29.3	8.2	8.2	28.5	28.5	84.9	85.0	5.6	5.6	10.3	10.3	13	12	86	87	89	817951	807109	<0.2	0.9	0.9	1.0
											1.0	0.4	6	29.3	29.3	8.2	8.2	28.5	28.5	85.0	85.0	5.6	5.6	10.3	10.3	12	12	87	87	89	817951	807109	<0.2	0.9	0.9	1.0
											-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Middle	-	-	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	4.6	1.2	31	29.1						29.1	8.3	8.3	29.7	29.7	86.2	86.7	5.6	5.6	17.1	17.1	12	12	92	92	92	817951	807109	<0.2	1.0	1.0	1.0					
	4.6	1.3	31	29.1						29.1	8.3	8.3	29.7	29.7	87.1	87.1	5.7	5.7	15.0	15.0	12	12	92	92	92	817951	807109	<0.2	1.0	1.0	1.0					
IM2	Fine	Moderate	11:46	7.1						Surface	1.0	0.4	175	29.3	29.3	8.2	8.2	28.1	28.1	87.5	87.5	5.7	5.7	6.4	6.4	11	10	86	86	89	818171	806168	<0.2	1.0	1.0	1.0
											1.0	0.4	180	29.3	29.3	8.2	8.2	28.1	28.1	87.5	87.5	5.7	5.7	6.5	6.5	10	10	86	86	89	818171	806168	<0.2	1.0	1.0	1.0
											3.6	0.8	166	29.0	29.0	8.3	8.3	29.8	29.8	85.5	85.4	5.6	5.6	9.5	9.5	9	9	90	90	91	818171	806168	<0.2	0.9	0.9	1.0
					Middle	3.6	0.8	166	29.0	29.0	8.3	8.3	29.9	29.8	85.3	85.3	5.6	5.6	9.7	9.7	8	8	91	91	91	818171	806168	<0.2	0.9	0.9	1.0					
						6.1	0.8	66	29.0	29.0	8.3	8.3	30.2	30.2	84.7	84.8	5.5	5.5	18.3	18.3	8	8	91	91	91	818171	806168	<0.2	1.0	1.0	1.0					
						6.1	0.8	67	29.0	29.0	8.3	8.3	30.2	30.2	84.8	84.8	5.5	5.5	18.5	18.5	6	6	92	92	92	818171	806168	<0.2	1.0	1.0	1.0					
					IM3	Fine	Moderate	11:38	7.4	Surface	1.0	1.2	183	29.2	29.2	8.2	8.2	27.8	27.8	89.0	89.0	5.9	5.9	5.5	5.5	4	4	89	88	91	818760	805582	<0.2	1.1	1.1	1.0
											1.0	1.2	198	29.2	29.2	8.2	8.2	27.8	27.8	89.0	89.0	5.9	5.9	5.5	5.5	4	4	88	88	91	818760	805582	<0.2	1.1	1.1	1.0
											3.7	1.0	183	29.0	29.0	8.3	8.3	29.3	29.3	87.0	87.0	5.7	5.7	6.4	6.4	6	6	91	91	91	818760	805582	<0.2	1.0	1.0	0.9
Middle	3.7	1.1	188	29.0						29.0	8.3	8.3	29.3	29.3	86.9	86.9	5.7	5.7	6.4	6.4	5	5	91	91	91	818760	805582	<0.2	0.9	0.9	1.0					
	6.4	0.4	107	29.0						29.0	8.3	8.3	30.1	30.1	85.8	85.9	5.6	5.6	17.7	17.7	7	7	92	92	92	818760	805582	<0.2	1.0	1.0	0.9					
	6.4	0.4	108	29.0						29.0	8.3	8.3	30.1	30.1	85.9	85.9	5.6	5.6	17.7	17.7	8	8	92	92	92	818760	805582	<0.2	1.0	1.0	0.9					
IM4	Fine	Moderate	11:28	8.3						Surface	1.0	0.6	327	29.2	29.2	8.2	8.2	27.5	27.5	87.0	87.1	5.7	5.7	6.2	6.2	8	7	88	88	90	819732	804625	<0.2	1.0	1.0	1.0
											1.0	0.7	327	29.2	29.2	8.2	8.2	27.5	27.5	87.1	87.1	5.7	5.7	6.3	6.3	7	7	88	88	90	819732	804625	<0.2	1.0	1.0	1.0
											4.2	0.8	357	29.0	29.0	8.3	8.3	29.6	29.6	86.0	85.9	5.6	5.6	7.9	7.9	7	7	90	90	91	819732	804625	<0.2	0.9	0.9	1.0
					Middle	4.2	0.9	328	29.0	29.0	8.3	8.3	29.6	29.6	85.7	85.7	5.6	5.6	8.5	8.5	6	6	91	91	91	819732	804625	<0.2	1.0	1.0	1.0					
						7.3	1.4	29	29.0	29.0	8.3	8.3	30.0	30.0	85.0	85.0	5.5	5.5	10.9	10.9	5	5	92	92	92	819732	804625	<0.2	0.8	0.8	1.0					
						7.3	1.5	29	29.0	29.0	8.3	8.3	30.0	30.0	85.0	85.0	5.5	5.5	10.9	10.9	6	6	92	92	92	819732	804625	<0.2	1.0	1.0	1.0					
					IM5	Fine	Moderate	11:20	8.5	Surface	1.0	0.5	188	29.3	29.3	8.2	8.2	25.3	25.4	88.2	88.2	5.9	5.9	5.2	5.2	5	4	87	87	90	820749	804877	<0.2	1.2	1.2	1.3
											1.0	0.5	200	29.3	29.3	8.2	8.2	25.3	25.4	88.1	88.1	5.9	5.9	5.4	5.4	4	4	87	87	91	820749	804877	<0.2	1.2	1.2	1.3
											4.3	1.1	172	29.0	29.0	8.2	8.2	29.3	29.3	85.4	85.4	5.6	5.6	12.0	12.0	4	4	91	91							

Expansion of Hong Kong International Airport into a Three-Runway System  
Water Quality Monitoring

Water Quality Monitoring Results on 01 October 20 during Mid-Ebb Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)	Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity (NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)		Coordinate HK Grid (Easting)		Chromium (µg/L)		Nickel (µg/L)					
								Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA
IM9	Sunny	Moderate	11:41	7.8	Surface	1.0	0.3	109	28.9	28.9	7.9	7.9	24.0	24.0	87.9	87.9	5.9	5.9	4.5	6	84	88	822096	808824	<0.2	1.1	1.0	1.1	1.0	1.1					
						1.0	0.3	110	28.9	28.9	7.9	7.9	24.0	24.0	87.9	87.9	5.9	5.9	4.5	5	84	88	822096	808824	<0.2	1.0	1.0	1.1	1.0	1.1					
						3.9	0.3	140	28.6	28.6	7.9	7.9	26.1	26.1	82.1	82.2	5.5	5.5	9.3	8	87	88	822096	808824	<0.2	1.0	1.0	1.0	1.0	1.1					
					Middle	3.9	0.3	145	28.6	28.6	7.9	7.9	26.1	26.1	82.3	82.2	5.5	5.5	9.3	7	87	88	822096	808824	<0.2	1.0	1.0	1.0	1.0	1.1	1.0	1.1			
						6.8	0.3	122	28.6	28.6	8.0	8.0	27.2	27.2	84.3	84.3	5.6	5.6	13.4	8	91	88	822096	808824	<0.2	1.1	1.0	1.1	1.0	1.1					
						6.8	0.4	128	28.6	28.6	8.0	8.0	27.2	27.2	84.3	84.3	5.6	5.6	13.5	8	91	88	822096	808824	<0.2	1.1	1.0	1.1	1.0	1.1					
					IM10	Sunny	Moderate	11:49	7.5	Surface	1.0	0.6	125	29.0	29.0	7.9	7.9	24.3	24.3	89.0	89.0	6.0	6.0	3.9	6	84	88	822377	809815	<0.2	1.2	1.0	1.2	1.0	1.0
											1.0	0.6	126	29.0	29.0	7.9	7.9	24.3	24.3	88.9	89.0	6.0	6.0	3.9	6	83	88	822377	809815	<0.2	1.0	1.0	1.0	1.0	1.0
											3.8	0.6	126	28.6	28.6	7.9	7.9	26.2	26.3	80.2	80.2	5.4	5.4	9.8	6	88	88	822377	809815	<0.2	0.9	1.0	0.9	1.0	1.0
Middle	3.8	0.6	126	28.6						28.6	7.9	7.9	26.3	26.3	80.2	80.2	5.4	5.4	9.3	5	88	88	822377	809815	<0.2	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
	6.5	0.4	118	28.6						28.6	7.9	7.9	26.8	26.8	83.0	83.0	5.5	5.5	12.3	6	92	88	822377	809815	<0.2	1.0	1.0	1.0	1.0	1.0					
	6.5	0.4	127	28.6						28.6	7.9	7.9	26.8	26.8	83.0	83.0	5.6	5.6	12.5	7	91	88	822377	809815	<0.2	1.0	1.0	1.0	1.0	1.0					
IM11	Sunny	Moderate	12:01	7.8						Surface	1.0	0.5	104	28.7	28.7	7.9	7.9	25.2	25.2	87.0	87.0	5.9	5.9	4.6	6	84	88	822078	811455	<0.2	1.1	0.9	1.1	0.9	0.9
											1.0	0.5	106	28.7	28.7	7.9	7.9	25.2	25.2	86.9	87.0	5.8	5.8	4.6	7	84	88	822078	811455	<0.2	0.9	1.0	0.9	1.0	0.9
											3.9	0.5	105	28.6	28.6	7.9	7.9	26.5	26.5	81.7	81.7	5.5	5.5	5.8	7	87	88	822078	811455	<0.2	0.9	1.0	0.9	1.0	0.9
					Middle	3.9	0.6	115	28.6	28.6	7.9	7.9	26.5	26.5	81.6	81.7	5.5	5.5	5.8	8	87	88	822078	811455	<0.2	0.9	1.0	0.9	1.0	0.9					
						6.8	0.3	103	28.6	28.6	7.9	7.9	27.6	27.6	79.6	79.6	5.3	5.3	9.1	7	92	88	822078	811455	<0.2	0.8	1.0	0.8	1.0	0.8					
						6.8	0.3	112	28.6	28.6	7.9	7.9	27.6	27.6	79.6	79.6	5.3	5.3	9.2	8	92	88	822078	811455	<0.2	0.8	1.0	0.8	1.0	0.8					
					IM12	Sunny	Moderate	12:07	8.7	Surface	1.0	0.5	100	28.9	28.9	7.9	7.9	24.2	24.2	89.2	89.2	6.0	6.0	4.1	7	83	87	821471	812033	<0.2	0.9	1.0	0.9	1.0	1.0
											1.0	0.5	102	28.9	28.9	7.9	7.9	24.2	24.2	89.1	89.2	6.0	6.0	4.1	7	84	87	821471	812033	<0.2	1.0	1.0	1.0	1.0	1.0
											4.4	0.5	97	28.6	28.6	7.9	7.9	26.4	26.4	80.1	80.1	5.4	5.4	10.0	6	86	87	821471	812033	<0.2	1.1	1.0	1.1	1.0	1.0
Middle	4.4	0.5	98	28.6						28.6	7.9	7.9	26.4	26.4	80.1	80.1	5.4	5.4	10.0	7	87	87	821471	812033	<0.2	1.0	1.0	1.0	1.0	1.0					
	7.7	0.2	93	28.6						28.6	7.9	7.9	26.6	26.6	80.0	80.1	5.4	5.4	13.7	5	91	87	821471	812033	<0.2	1.0	1.0	1.0	1.0	1.0					
	7.7	0.2	97	28.6						28.6	7.9	7.9	26.6	26.6	80.1	80.1	5.4	5.4	13.8	5	91	87	821471	812033	<0.2	1.0	1.0	1.0	1.0	1.0					
SR1A	Sunny	Moderate	12:28	5.4						Surface	1.0	-	-	28.7	28.7	7.9	7.9	25.0	25.0	88.1	88.1	5.9	5.9	4.6	6	84	85	819982	812663	-	-	-	-	-	-
											1.0	-	-	28.7	28.7	7.9	7.9	25.0	25.0	88.1	88.1	5.9	5.9	4.5	7	84	85	819982	812663	-	-	-	-	-	-
											2.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					Middle	2.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
						4.4	-	-	28.6	28.6	7.9	7.9	25.2	25.2	86.5	86.6	5.8	5.8	4.1	9	84	85	819982	812663	-	-	-	-	-	-	-	-	-		
						4.4	-	-	28.6	28.6	7.9	7.9	25.2	25.2	86.6	86.6	5.8	5.8	4.2	8	84	85	819982	812663	-	-	-	-	-	-	-	-	-		
					SR2	Sunny	Moderate	12:41	5.2	Surface	1.0	0.4	67	28.8	28.8	8.0	8.0	24.9	24.9	88.1	88.1	5.9	5.9	4.2	6	83	85	821461	814177	<0.2	1.0	1.0	1.0	1.0	1.0
											1.0	0.4	70	28.8	28.8	8.0	8.0	24.9	24.9	88.1	88.1	5.9	5.9	4.2	6	84	85	821461	814177	<0.2	1.0	1.0	1.0	1.0	1.0
											-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Middle	-	-	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	4.2	0.2	63	28.6						28.6	8.0	8.0	26.2	26.2	82.8	82.9	5.6	5.6	10.4	7	87	85	821461	814177	<0.2	1.0	1.0	1.0	1.0	1.0					
	4.2	0.3	64	28.6						28.6	8.0	8.0	26.2	26.2	82.9	82.9	5.6	5.6	10.4	8	87	85	821461	814177	<0.2	1.0	1.0	1.0	1.0	1.0					
SR3	Sunny	Moderate	11:28	9.8						Surface	1.0	0.2	213	28.9	28.9	7.9	7.9	23.9	23.9	88.4	88.4	6.0	6.0	4.7	6	84	85	822152	807575	-	-	-	-	-	-
											1.0	0.2	230	28.9	28.9	7.9	7.9	23.9	23.9	88.4	88.4	6.0	6.0	4.7	7	84	85	822152	807575	-	-	-	-	-	-
											4.9	0.2	208	28.6	28.6	7.9	7.9	25.9	25.9	81.5	81.5	5.5	5.5	9.1	5	84	85	822152	807575	-	-	-	-	-	
					Middle	4.9	0.2	219	28.6	28.6	7.9	7.9	25.9	25.9	81.5	81.5	5.5	5.5	9.1	6	84	85	822152	807575	-	-	-	-	-	-					
						8.8	0.2	32	28.5	28.5	8.0	8.0	28.0	28.0	84.5	84.5	5.6	5.6	14.8	5	84	85	822152	807575	-	-	-	-	-						
						8.8	0.2	33	28.5	28.5	8.0	8.0	28.0	28.0	84.5	84.5	5.6	5.6	14.9	6	84	85	822152	807575	-	-	-	-	-						
					SR4A	Fine	Moderate	12:39	9.8	Surface	1.0	1.9	265	29.3	29.3	8.2	8.2	28.8	28.8	88.2	88.2	5.8	5.8	8.6	8	84	85	817182	807812	-	-	-	-	-	-
											1.0	2.0	273	29.2	29.2	8.2	8.2	28.8	28.8	88.1	88.2	5.8	5.8	8.8	9	84	85	817182	807812	-	-	-	-	-	
											4.9	1.7	267	29.1	29.1	8.2	8.2	29.7	29.7	83.8	83.9	5.5	5.5	12.3	9	84	85	817182	807812	-	-	-	-	-	
Middle	4.9	1.8	279	29.1						29.1	8.2	8.2	29.7	29.7	83.9	83.9	5.5	5.5	12.4	10	84	85	817182	807812	-	-	-	-	-						
	8.8	1.1	281	29.1						29.1	8.2	8.2	29.7	29.7	84.9	85.0	5.5	5.5	14.1	11	84	85	817182	807812	-	-	-	-	-						
	8.8	1.1	294	29.1						29.1	8.2	8.2	29.7	29.7	85.1	85.0	5.6	5.6	14.2																

Expansion of Hong Kong International Airport into a Three-Runway System

Water Quality Monitoring

Water Quality Monitoring Results on 01 October 20 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)	Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity (NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)						
								Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA			
C1	Cloudy	Moderate	07:01	9.3	Surface	1.0	0.4	40	28.9	28.9	8.3	8.3	29.9	29.9	86.3	86.3	5.6	5.6	11.2	14	86	86	88	815611	804249	<0.2	0.4	0.6	0.6					
						1.0	0.4	40	28.9	28.9	8.3	8.3	29.9	29.9	86.3	86.3	5.6	5.6	11.0	14	86	86	88	815611	804249	<0.2	0.5	0.6	0.6					
						4.7	1.0	22	28.9	28.9	8.2	8.2	30.3	30.3	85.4	85.4	5.6	5.6	13.9	13	89	89	88	815611	804249	<0.2	0.6	0.6	0.6					
					Middle	4.7	1.0	22	28.9	28.9	8.2	8.2	30.3	30.3	85.3	85.3	5.6	5.6	14.5	12	89	89	88	815611	804249	<0.2	0.6	0.6	0.6					
						8.3	1.3	18	28.8	28.8	8.2	8.2	30.7	30.7	85.2	85.2	5.5	5.5	15.9	11	90	90	88	815611	804249	<0.2	0.6	0.6	0.6					
						8.3	1.4	19	28.8	28.8	8.2	8.2	30.7	30.7	85.2	85.2	5.6	5.6	15.9	12	90	90	88	815611	804249	<0.2	0.6	0.6	0.6					
					C2	Sunny	Moderate	07:59	11.2	Surface	1.0	0.5	340	28.7	28.7	7.9	7.9	23.7	23.6	84.8	84.9	5.8	5.8	4.2	4	87	87	91	825678	806967	<0.2	1.1	1.1	1.1
											1.0	0.5	355	28.7	28.7	7.9	7.9	23.6	23.6	84.9	84.9	5.8	5.8	4.1	5	86	86	91	825678	806967	<0.2	1.1	1.1	1.1
											5.6	0.6	331	28.7	28.7	7.9	7.9	24.2	24.2	83.6	83.6	5.7	5.7	5.1	5	90	90	91	825678	806967	<0.2	1.1	1.1	1.1
Middle	5.6	0.6	358	28.7						28.7	7.9	7.9	24.3	24.3	83.6	83.6	5.7	5.7	5.1	5	91	91	91	825678	806967	<0.2	1.1	1.1	1.1					
	10.2	0.4	339	28.7						28.7	8.0	8.0	24.5	24.5	82.6	82.7	5.6	5.6	6.2	6	95	95	91	825678	806967	<0.2	1.1	1.1	1.1					
	10.2	0.4	312	28.7						28.7	8.0	8.0	24.5	24.5	82.7	82.7	5.6	5.6	6.2	5	94	94	91	825678	806967	<0.2	1.1	1.1	1.1					
C3	Fine	Moderate	05:59	11.6						Surface	1.0	0.6	282	28.2	28.2	7.9	7.9	26.2	26.2	86.2	86.2	5.8	5.8	2.9	6	85	85	89	822105	817798	<0.2	0.9	0.9	0.9
											1.0	0.6	307	28.2	28.2	7.9	7.9	26.2	26.2	86.2	86.2	5.8	5.8	2.9	6	85	85	89	822105	817798	<0.2	0.9	0.9	0.9
											5.8	0.6	280	28.6	28.6	7.9	7.9	28.8	28.8	77.0	77.0	5.1	5.1	7.5	4	89	89	89	822105	817798	<0.2	0.9	0.9	0.9
					Middle	5.8	0.6	294	28.6	28.6	7.9	7.9	28.8	28.8	77.0	77.0	5.1	5.1	7.5	4	89	89	89	822105	817798	<0.2	0.9	0.9	0.9					
						10.6	0.3	282	28.6	28.6	7.9	7.9	28.9	28.9	76.6	76.6	5.1	5.1	9.8	3	93	93	89	822105	817798	<0.2	1.0	0.8	0.8					
						10.6	0.3	308	28.6	28.6	7.9	7.9	28.9	28.9	76.6	76.6	5.1	5.1	10.2	2	93	93	89	822105	817798	<0.2	0.8	0.8	0.8					
					IM1	Cloudy	Moderate	07:22	5.2	Surface	1.0	0.2	342	29.1	29.1	8.2	8.2	28.1	28.2	84.7	84.8	5.6	5.6	10.8	14	85	85	87	817935	807152	<0.2	0.8	0.8	0.8
											1.0	0.2	315	29.1	29.1	8.2	8.2	28.2	28.2	84.8	84.8	5.6	5.6	10.9	13	86	86	87	817935	807152	<0.2	0.9	0.8	0.8
											-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Middle	4.2	0.2	270	29.0						29.0	8.2	8.2	28.2	28.2	87.8	88.1	5.8	5.8	11.3	15	89	89	87	817935	807152	<0.2	0.8	0.8	0.8					
	4.2	0.2	296	29.0						29.0	8.2	8.2	28.2	28.2	88.3	88.3	5.8	5.8	11.2	15	86	86	87	817935	807152	<0.2	0.8	0.8	0.8					
	-	-	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
IM2	Cloudy	Moderate	07:28	7.7						Surface	1.0	0.3	22	28.9	28.9	8.2	8.2	27.3	27.4	86.6	86.5	5.7	5.7	7.3	11	86	86	89	818171	806170	<0.2	0.8	0.8	0.8
											1.0	0.4	22	28.9	28.9	8.2	8.2	27.5	27.4	86.4	86.5	5.7	5.7	7.8	10	89	89	89	818171	806170	<0.2	0.8	0.8	0.8
											3.9	0.4	12	29.0	29.0	8.2	8.2	29.0	29.0	85.1	85.1	5.6	5.6	14.1	9	90	90	89	818171	806170	<0.2	0.8	0.8	0.8
					Middle	3.9	0.4	12	29.0	29.0	8.2	8.2	29.0	29.0	85.0	85.0	5.6	5.6	13.8	9	90	90	89	818171	806170	<0.2	0.8	0.8	0.8					
						6.7	0.3	339	29.0	29.0	8.2	8.2	29.8	29.8	85.2	85.2	5.6	5.6	16.5	8	91	91	89	818171	806170	<0.2	0.8	0.8	0.8					
						6.7	0.3	340	29.0	29.0	8.2	8.2	29.8	29.8	85.5	85.4	5.6	5.6	16.2	7	86	86	89	818171	806170	<0.2	0.8	0.8	0.8					
					IM3	Cloudy	Moderate	07:33	7.6	Surface	1.0	0.5	18	28.9	28.9	8.2	8.2	27.6	27.6	87.1	87.1	5.8	5.8	7.2	8	87	87	89	818772	805575	<0.2	0.8	0.8	0.8
											1.0	0.5	18	28.9	28.9	8.2	8.2	27.6	27.6	87.1	87.1	5.8	5.8	7.1	9	89	89	89	818772	805575	<0.2	0.9	0.9	0.9
											3.8	0.4	321	29.0	29.0	8.2	8.2	29.5	29.5	84.9	85.0	5.6	5.6	10.1	10	90	90	89	818772	805575	<0.2	0.9	0.9	0.9
Middle	3.8	0.4	338	29.0						29.0	8.2	8.2	29.5	29.5	85.0	85.0	5.6	5.6	10.5	10	91	91	89	818772	805575	<0.2	1.0	0.9	0.9					
	6.6	0.3	317	29.0						29.0	8.2	8.2	29.7	29.7	86.5	86.6	5.7	5.7	12.2	12	91	91	89	818772	805575	<0.2	1.1	0.9	0.9					
	6.6	0.4	319	29.0						29.0	8.2	8.2	29.7	29.7	86.7	86.7	5.7	5.7	12.0	12	87	87	89	818772	805575	<0.2	1.1	0.9	0.9					
IM4	Cloudy	Moderate	07:42	7.5						Surface	1.0	0.8	342	28.9	28.9	8.2	8.2	27.5	27.5	88.0	88.0	5.8	5.8	6.4	9	87	87	89	819712	804590	<0.2	1.0	1.0	1.0
											1.0	0.9	359	28.9	28.9	8.2	8.2	27.5	27.5	87.9	87.9	5.8	5.8	6.4	8	90	90	89	819712	804590	<0.2	1.0	1.0	1.0
											3.8	0.7	349	29.0	29.0	8.2	8.2	29.1	29.1	85.7	85.6	5.6	5.6	14.3	9	90	90	89	819712	804590	<0.2	1.1	1.1	1.1
					Middle	3.8	0.7	352	29.0	29.0	8.2	8.2	29.2	29.1	85.5	85.6	5.6	5.6	14.3	9	90	90	89	819712	804590	<0.2	1.3	1.1	1.1					
						6.5	0.6	341	29.0	29.0	8.2	8.2	29.5	29.5	85.2	85.3	5.6	5.6	17.3	10	91	91	89	819712	804590	<0.2	1.2	1.1	1.1					
						6.5	0.6	342	29.0	29.0	8.2	8.2	29.5	29.5	85.3	85.3	5.6	5.6	17.0	10	86	86	89	819712	804590	<0.2	1.2	1.1	1.1					
					IM5	Cloudy	Moderate	07:48	7.2	Surface	1.0	1.1	12	29.0	29.0	8.2	8.2	26.9	26.9	85.5	85.5	5.7	5.7	8.0	8	86	86	89	820738	804843	<0.2	0.9	0.9	0.9
											1.0	1.2	13	29.0	29.0	8.2	8.2	26.9	26.9	85.5	85.5	5.7	5.7	8.0	8	89	89	89	820738	804843	<0.2	0.9	0.9	0.9
											3.6	0.9	3	29.0	29.0	8.2	8.2	28.4	28.4	85.2	85.2	5.6	5.6	13.8	11	90	90	89	820738	804843	<0.2	0.9	0.9	0.9
Middle	3.6	1.0	3	29.0						29.0	8.2	8.2	28.5	28.4	85.2	85.2	5.6	5.6	13.5	10	90	90	89	820738	804843	<0.2	0.9	0.9	0.9					
	6.2	0.7	29	29.0						29.0	8.2	8.2	29.1	29.1	86.1	86.4	5.6	5.6	16.2	14	91	91	89	820738	804843	<0.2	0.9	0.9	0.9					
	6.2	0.8	31	29.0						29.0	8.2	8.2	29.1	29.1	86.6	86.6	5.7	5.7	16.3	14	86	86	89</											

Expansion of Hong Kong International Airport into a Three-Runway System  
Water Quality Monitoring

Water Quality Monitoring Results on 01 October 20 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)	Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity (NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)						
								Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA					
IM9	Sunny	Moderate	07:23	7.6	Surface	1.0	0.5	68	28.7	7.9	7.9	23.6	23.6	86.1	86.1	5.8	5.8	6.1	9	87	90	822087	808832	<0.2	1.1	<0.2	1.2							
						1.0	0.6	71	28.7	7.9	7.9	23.6	23.6	86.1	86.1	5.8	5.8	6.1	9	86	90	<0.2	1.1											
						3.8	0.5	80	28.6	7.9	7.9	23.7	23.7	85.7	85.7	5.8	5.8	7.7	10	90	90	<0.2	1.1											
					Middle	3.8	0.5	86	28.6	7.9	7.9	23.7	23.7	85.7	85.7	5.8	5.8	7.7	10	90	90	<0.2	1.1											
						6.6	0.4	88	28.6	7.9	7.9	24.7	24.7	83.7	83.8	5.7	5.7	11.6	10	94	94	<0.2	1.2											
						6.6	0.4	91	28.6	7.9	7.9	24.7	24.7	83.8	83.8	5.7	5.7	11.5	11	94	94	<0.2	1.2											
					Bottom	1.0	0.3	338	28.5	7.9	7.9	23.8	23.8	86.7	86.7	5.9	5.9	6.3	13	86	90	<0.2	1.1											
						1.0	0.3	311	28.5	7.9	7.9	23.8	23.8	86.7	86.7	5.9	5.9	6.4	13	87	90	<0.2	1.1											
						4.1	0.3	309	28.4	7.9	7.9	24.8	24.7	86.7	86.7	5.9	5.9	5.8	12	90	90	<0.2	1.1											
Middle	4.1	0.4	336	28.4	7.9	7.9	24.7	24.7	86.7	86.7	5.9	5.9	5.9	11	90	90	<0.2	1.1																
	7.2	0.3	300	28.4	7.9	7.9	25.5	25.5	85.1	85.1	5.7	5.7	6.9	10	94	94	<0.2	1.0																
	7.2	0.3	314	28.4	7.9	7.9	25.5	25.5	85.1	85.1	5.8	5.8	6.9	9	94	94	<0.2	1.0																
IM10	Sunny	Moderate	07:13	8.2	Surface	1.0	0.3	338	28.5	7.9	7.9	23.8	23.8	86.7	86.7	5.9	5.9	6.3	13	86	90	822408	809778	<0.2	1.1	<0.2	1.1							
						1.0	0.3	311	28.5	7.9	7.9	23.8	23.8	86.7	86.7	5.9	5.9	6.4	13	87	90	<0.2	1.1											
						4.1	0.3	309	28.4	7.9	7.9	24.8	24.7	86.7	86.7	5.9	5.9	5.8	12	90	90	<0.2	1.1											
					Middle	4.1	0.4	336	28.4	7.9	7.9	24.7	24.7	86.7	86.7	5.9	5.9	5.9	11	90	90	<0.2	1.1											
						7.2	0.3	300	28.4	7.9	7.9	25.5	25.5	85.1	85.1	5.7	5.7	6.9	10	94	94	<0.2	1.0											
						7.2	0.3	314	28.4	7.9	7.9	25.5	25.5	85.1	85.1	5.8	5.8	6.9	9	94	94	<0.2	1.0											
					Bottom	1.0	0.6	312	28.5	7.9	7.9	25.7	25.7	82.9	82.9	5.6	5.6	7.1	11	86	90	<0.2	0.9											
						1.0	0.6	325	28.5	7.9	7.9	25.7	25.7	82.8	82.8	5.6	5.6	7.2	10	87	90	<0.2	0.9											
						3.9	0.4	316	28.6	7.9	7.9	26.6	26.6	80.4	80.4	5.4	5.4	10.2	9	90	90	<0.2	1.1											
Middle	3.9	0.4	332	28.6	7.9	7.9	26.6	26.6	80.4	80.4	5.4	5.4	10.2	10	90	90	<0.2	1.1																
	6.8	0.2	294	28.6	7.9	7.9	27.2	27.2	79.9	79.9	5.3	5.3	15.6	9	94	94	<0.2	0.9																
	6.8	0.2	319	28.6	7.9	7.9	27.2	27.2	79.9	79.9	5.3	5.3	15.4	8	94	94	<0.2	0.9																
IM11	Sunny	Moderate	07:03	7.8	Surface	1.0	0.6	312	28.5	7.9	7.9	25.7	25.7	82.9	82.9	5.6	5.6	7.1	11	86	90	822033	811469	<0.2	1.0	<0.2	1.0							
						1.0	0.6	325	28.5	7.9	7.9	25.7	25.7	82.8	82.8	5.6	5.6	7.2	10	87	90	<0.2	0.9											
						3.9	0.4	316	28.6	7.9	7.9	26.6	26.6	80.4	80.4	5.4	5.4	10.2	9	90	90	<0.2	1.1											
					Middle	3.9	0.4	332	28.6	7.9	7.9	26.6	26.6	80.4	80.4	5.4	5.4	10.2	10	90	90	<0.2	1.1											
						6.8	0.2	294	28.6	7.9	7.9	27.2	27.2	79.9	79.9	5.3	5.3	15.6	9	94	94	<0.2	0.9											
						6.8	0.2	319	28.6	7.9	7.9	27.2	27.2	79.9	79.9	5.3	5.3	15.4	8	94	94	<0.2	0.9											
					Bottom	1.0	0.4	298	28.5	7.9	7.9	25.9	25.9	82.9	82.9	5.6	5.6	6.8	10	86	90	<0.2	0.9											
						1.0	0.4	309	28.5	7.9	7.9	25.9	25.9	82.9	82.9	5.6	5.6	6.8	9	86	90	<0.2	1.0											
						4.5	0.5	292	28.5	7.9	7.9	26.2	26.2	81.3	81.3	5.5	5.5	8.4	10	91	90	<0.2	0.9											
Middle	4.5	0.5	302	28.5	7.9	7.9	26.2	26.2	81.3	81.3	5.5	5.5	8.3	11	90	90	<0.2	1.1																
	7.9	0.3	287	28.6	7.9	7.9	26.5	26.5	79.8	79.8	5.3	5.3	13.5	13	95	94	<0.2	0.8																
	7.9	0.4	310	28.6	7.9	7.9	26.5	26.5	79.8	79.8	5.3	5.3	13.5	12	94	94	<0.2	0.9																
SR1A	Sunny	Moderate	06:34	5.5	Surface	1.0	-	-	28.3	7.9	7.9	24.2	24.2	84.6	84.6	5.8	5.8	3.7	6	-	-	819974	812666	-	-	-	-							
						1.0	-	-	28.3	7.9	7.9	24.2	24.2	84.6	84.6	5.8	5.8	3.7	5	-	-	-	-											
						2.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-										
					Middle	2.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-										
						4.5	-	-	28.4	7.9	7.9	24.8	24.8	82.2	82.3	5.6	5.6	8.6	8	-	-	-	-											
						4.5	-	-	28.4	7.9	7.9	24.8	24.8	82.3	82.3	5.6	5.6	8.6	7	-	-	-	-											
					Bottom	1.0	0.2	107	28.5	7.9	7.9	26.0	26.0	81.8	81.8	5.5	5.5	7.6	8	86	86	821460	814159	<0.2	0.9									
						1.0	0.2	111	28.5	7.9	7.9	26.0	26.0	81.8	81.8	5.5	5.5	7.6	8	86	86	<0.2	1.0											
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-										
Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-															
	4.0	0.2	132	28.6	7.9	7.9	26.3	26.3	80.5	80.5	5.4	5.4	8.2	8	91	90	<0.2	0.9																
	4.0	0.2	143	28.6	7.9	7.9	26.4	26.3	80.5	80.5	5.4	5.4	8.3	10	90	90	<0.2	0.9																
SR2	Fine	Moderate	06:20	5.0	Surface	1.0	0.2	107	28.5	7.9	7.9	26.0	26.0	81.8	81.8	5.5	5.5	7.6	8	86	86	821460	814159	<0.2	0.9	<0.2	0.9							
						1.0	0.2	111	28.5	7.9	7.9	26.0	26.0	81.8	81.8	5.5	5.5	7.6	8	86	86	<0.2	1.0											
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-										
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-										
						4.0	0.2	132	28.6	7.9	7.9	26.3	26.3	80.5	80.5	5.4	5.4	8.2	8	91	90	<0.2	0.9											
						4.0	0.2	143	28.6	7.9	7.9	26.4	26.3	80.5	80.5	5.4	5.4	8.3	10	90	90	<0.2	0.9											
					SR3	Sunny	Moderate	07:37	8.2	Surface	1.0	0.1	284	28.6	7.9	7.9	23.5	23.5	86.3	86.3	5.9	5.9	5.4	5	-			-	822144	807584	-	-	-	-
											1.0	0.1	307	28.6	7.9	7.9	23.5	23.5	86.3	86.3	5.9	5.9	5.5	6	-			-	-	-				
											4.1	0.2	258	28.8	7.9	7.9	23.9	23.9	84.1	84.1	5.7	5.7	7.1	6	-			-	-	-				
Middle	4.1	0.2	272	28.8						7.9	7.9	23.9	23.9	84.1	84.1	5.7	5.7	7.1	7	-	-	-	-											
	7.2	0.1	89	28.7						7.9	7.9	25.0	25.0	81.7	81.7	5.5	5.5	13.7	9	-	-	-	-											
	7.2	0.1	94	28.7						7.9	7.9	25.0	25.0	81.7	81.7	5.5	5.5	13.3	8	-	-	-	-											
Bottom	1.0	1.7	213	28.9						8.3	8.3	24.4	24.4	85.0	84.9	5.7	5.7	5.9	10	-	-	-	-											
	1.0	1.7	226	28.9						8.3	8.3	24.4	24.4	84.8	84.9	5.7	5.7	6.0	9	-	-	-	-											
	4.1	1.8	209	29.0						8.3	8.3	26.9	26.9	83.7	83.7	5.6	5.6	10.1	7	-	-	-	-											
Middle	4.1	1.8	211	29.0	8.3	8.3	26.9	26.9	83.6	83.7	5.5	5.5	10.2	8	-	-	-	-																
	7.1	1.5	229	29.1	8.3	8.3	27.7	27.7	83.7	83.8	5.5	5.5	17.7	8	-	-	-	-																
	7.1	1.6	231	29.1	8.3	8.3	2																											

Expansion of Hong Kong International Airport into a Three-Runway System

Water Quality Monitoring

Water Quality Monitoring Results on 03 October 20 during Mid-Ebb Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)	Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity (NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)				
								Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA	
C1	Fine	Moderate	13:11	8.7	Surface	1.0	0.2	214	28.5	28.5	8.2	8.2	25.7	25.7	92.2	92.1	6.2	6.1	7.3	6	88	91	815624	804235	<0.2	1.2	<0.2	1.2				
						1.0	0.2	225	28.5	8.2	8.2	26.7	26.7	92.0	92.0	6.2	6.1	7.5	6	88	91	815624	804235	<0.2	1.3							
						4.4	0.2	184	28.2	8.2	8.2	29.2	29.2	90.2	90.3	6.0	6.1	7.9	5	92	91	815624	804235	<0.2	1.2							
					Middle	4.4	0.2	189	28.2	8.2	8.2	29.3	29.2	90.3	90.3	6.0	6.1	8.1	5	92	91	815624	804235	<0.2	1.1							
						7.7	0.3	204	28.2	8.2	8.2	29.5	29.5	92.6	92.7	6.1	6.1	10.6	3	93	91	815624	804235	<0.2	1.1							
						7.7	0.3	216	28.2	8.2	8.2	29.5	29.5	92.8	92.7	6.1	6.1	10.5	3	93	91	815624	804235	<0.2	1.1							
					Bottom	1.0	0.2	135	29.5	29.5	8.1	8.1	23.8	23.8	84.8	84.8	5.7	5.6	5.0	6	86	88	815624	804235	<0.2	1.3						
						1.0	0.2	146	29.5	29.5	8.1	8.1	23.8	23.8	84.8	84.8	5.7	5.6	4.9	6	85	88	815624	804235	<0.2	1.2						
						5.8	0.5	154	28.9	28.9	8.1	8.1	27.4	27.4	83.1	83.1	5.5	5.5	10.8	6	87	88	815624	804235	<0.2	1.1						
Middle	5.8	0.5	162	28.9	28.9	8.1	8.1	27.4	27.4	83.0	83.0	5.5	5.5	10.7	6	88	88	815624	804235	<0.2	1.1											
	10.5	0.5	144	29.0	29.0	8.2	8.2	27.6	27.6	81.1	81.1	5.4	5.4	12.6	7	91	91	815624	804235	<0.2	1.3											
	10.5	0.5	154	29.0	29.0	8.2	8.2	27.6	27.6	81.1	81.1	5.4	5.4	12.8	7	90	90	815624	804235	<0.2	1.3											
C2	Sunny	Moderate	12:04	11.5	Surface	1.0	0.2	135	29.5	29.5	8.1	8.1	23.8	23.8	84.8	84.8	5.7	5.6	5.0	6	86	88	815624	804235	<0.2	1.3	<0.2	1.2				
						1.0	0.2	146	29.5	29.5	8.1	8.1	23.8	23.8	84.8	84.8	5.7	5.6	4.9	6	85	88	815624	804235	<0.2	1.2						
						5.8	0.5	154	28.9	28.9	8.1	8.1	27.4	27.4	83.1	83.1	5.5	5.5	10.8	6	87	88	815624	804235	<0.2	1.1						
					Middle	5.8	0.5	162	28.9	28.9	8.1	8.1	27.4	27.4	83.0	83.0	5.5	5.5	10.7	6	88	88	815624	804235	<0.2	1.1						
						10.5	0.5	144	29.0	29.0	8.2	8.2	27.6	27.6	81.1	81.1	5.4	5.4	12.6	7	91	91	815624	804235	<0.2	1.3						
						10.5	0.5	154	29.0	29.0	8.2	8.2	27.6	27.6	81.1	81.1	5.4	5.4	12.8	7	90	90	815624	804235	<0.2	1.3						
					Bottom	1.0	0.4	286	29.1	29.1	8.1	8.1	27.3	27.3	84.1	84.1	5.6	5.6	5.8	4	84	86	815624	804235	<0.2	0.9						
						1.0	0.4	294	29.1	29.1	8.1	8.1	27.3	27.3	84.1	84.1	5.6	5.6	5.8	4	84	86	815624	804235	<0.2	0.8						
						5.4	0.2	257	29.0	29.0	8.1	8.1	28.2	28.2	80.9	80.9	5.3	5.3	16.9	5	86	86	815624	804235	<0.2	0.9						
Middle	5.4	0.2	277	29.0	29.0	8.1	8.1	28.2	28.2	80.9	80.9	5.3	5.3	16.8	5	85	86	815624	804235	<0.2	0.8											
	9.8	0.1	120	29.0	29.0	8.2	8.2	28.5	28.5	81.1	81.2	5.3	5.3	14.8	7	88	88	815624	804235	<0.2	0.8											
	9.8	0.1	126	29.0	29.0	8.2	8.2	28.5	28.5	81.2	81.2	5.3	5.3	14.8	7	88	88	815624	804235	<0.2	0.8											
C3	Sunny	Moderate	13:52	10.8	Surface	1.0	0.1	168	28.6	28.6	8.2	8.2	26.9	26.9	91.7	91.5	6.1	6.1	3.9	8	87	89	815624	804235	<0.2	1.6	<0.2	1.6				
						1.0	0.1	180	28.5	28.5	8.2	8.2	27.0	27.0	91.2	91.2	6.1	6.1	3.9	7	87	89	815624	804235	<0.2	1.5						
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-
					Middle	4.2	0.1	156	28.4	28.4	8.2	8.2	27.8	27.8	90.7	90.8	6.1	6.1	16.7	6	90	91	815624	804235	<0.2	1.7						
						4.2	0.2	160	28.4	28.4	8.2	8.2	27.8	27.8	90.9	90.9	6.1	6.1	16.9	6	91	91	815624	804235	<0.2	1.6						
						1.0	0.2	159	28.7	28.7	8.2	8.2	26.5	26.5	91.6	91.5	6.1	6.1	4.9	5	87	86	815624	804235	<0.2	1.8						
					Surface	1.0	0.2	162	28.7	28.7	8.2	8.2	26.5	26.5	91.4	91.4	6.1	6.1	4.8	5	86	86	815624	804235	<0.2	1.7						
						3.6	0.1	183	28.3	28.3	8.2	8.2	27.8	27.8	88.0	88.0	5.9	5.9	9.8	6	90	90	815624	804235	<0.2	1.8						
						3.6	0.1	185	28.3	28.3	8.2	8.2	27.9	27.8	88.0	88.0	5.9	5.9	9.9	6	91	91	815624	804235	<0.2	1.7						
Middle	6.2	0.2	185	28.2	28.2	8.2	8.2	28.1	28.0	88.1	88.2	5.9	5.9	18.1	7	91	91	815624	804235	<0.2	1.6											
	6.2	0.2	185	28.2	28.2	8.2	8.2	28.0	28.0	88.2	88.2	5.9	5.9	18.6	7	92	92	815624	804235	<0.2	1.5											
	1.0	0.2	139	28.8	28.8	8.2	8.2	25.6	25.6	93.0	93.0	6.2	6.2	4.0	6	89	89	815624	804235	<0.2	2.0											
Surface	1.0	0.2	148	28.8	28.8	8.2	8.2	25.6	25.6	92.9	92.9	6.2	6.2	4.1	6	89	89	815624	804235	<0.2	1.9											
	3.7	0.2	147	28.3	28.3	8.2	8.2	27.8	27.8	87.9	87.9	5.9	5.9	8.2	6	91	91	815624	804235	<0.2	1.8											
	3.7	0.2	147	28.3	28.3	8.2	8.2	27.8	27.8	87.9	87.9	5.9	5.9	8.4	6	92	92	815624	804235	<0.2	1.7											
Middle	6.4	0.2	149	28.3	28.3	8.2	8.2	27.9	27.9	90.2	90.3	6.0	6.0	12.0	6	92	92	815624	804235	<0.2	1.7											
	6.4	0.2	156	28.3	28.3	8.2	8.2	27.9	27.9	90.4	90.3	6.0	6.0	12.1	5	92	92	815624	804235	<0.2	1.8											
	1.0	0.3	182	28.5	28.5	8.2	8.2	25.9	25.9	88.4	88.4	5.9	5.9	4.3	5	87	87	815624	804235	<0.2	1.7											
Surface	1.0	0.3	193	28.5	28.5	8.2	8.2	25.9	25.9	88.4	88.4	5.9	5.9	4.4	5	87	87	815624	804235	<0.2	1.6											
	4.3	0.2	161	28.3	28.3	8.2	8.2	27.8	27.8	86.6	86.6	5.8	5.8	11.2	5	89	89	815624	804235	<0.2	1.7											
	4.3	0.2	170	28.3	28.3	8.2	8.2	27.8	27.8	86.6	86.6	5.8	5.8	11.2	5	90	90	815624	804235	<0.2	1.6											
Middle	7.5	0.2	146	28.3	28.3	8.2	8.2	28.4	28.4	87.8	87.9	5.8	5.8	10.7	5	91	91	815624	804235	<0.2	0.9											
	7.5	0.2	153	28.3	28.3	8.2	8.2	28.4	28.4	87.9	87.9	5.8	5.8	10.8	5	91	91	815624	804235	<0.2	1.1											
	1.0	0.3	230	28.4	28.4	8.2	8.2	25.8	25.9	88.8	88.7	6.0	6.0	4.2	4	86	86	815624	804235	<0.2	1.7											
Surface	1.0	0.3	245	28.4	28.4	8.2	8.2	25.9	25.9	88.6	88.6	6.0	6.0	4.5	4	86	86	815624	804235	<0.2	1.6											
	4.0	0.3	205	28.3	28.3	8.2	8.2	27.9	27.9	86.8	86.8	5.8	5.8	9.2	5	90	90	815624	804235	<0.2	1.4											
	4.0	0.3	223	28.3	28.3	8.2	8.2	27.8	27.9	86.8	86.8	5.8	5.8	9.3	5	90	90	815624	804235	<0.2	1.5											
Middle	7.0	0.2	189	28.3	28.3	8.2	8.2	28.3	28.3	87.8	87.9	5.8	5.8	16.5	7	91	91	815624	804235	<0.2	1.4											
	7.0	0.2	196	28.3	28.3	8.2	8.2	28.3	28.3	88.0	87.9	5.9	5.9	16.6	7	91	91	815624	804235	<0.2	1.5											
	1.0	0.2	226	28.4	28.4	8.2	8.2	25.8	25.7	89.0	89.0	6.0	6.0	4.7	6	86	87	815624	804235	<0.2	1.6											
Surface	1.0	0.2	239	28.4	28.4	8.2	8.2	25.7	25.7	89.0																						

Expansion of Hong Kong International Airport into a Three-Runway System  
Water Quality Monitoring

Water Quality Monitoring Results on 03 October 20 during Mid-Ebb Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)	Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)	Dissolved Oxygen		Turbidity (NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)								
								Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA				
IM9	Sunny	Moderate	12:35	7.6	Surface	1.0	1.3	85	29.2	29.2	8.1	8.1	25.1	25.2	86.5	86.4	5.8	5.7	4.8	8	82	85	822081	808824	<0.2	1.1	1.0	1.1							
						1.0	1.4	87	29.1	8.1	8.1	25.3	25.2	86.2	86.4	5.8	5.7	4.9	8	83	85	<0.2	1.0	1.0	1.1										
						3.8	1.3	91	28.9	8.1	8.1	26.8	26.8	83.9	84.0	5.6	5.7	10.0	8	84	85	<0.2	1.0	1.0	1.1										
					Middle	3.8	1.3	99	28.9	28.9	8.1	8.1	26.8	26.8	84.0	84.0	5.6	5.6	10.0	7	86	87	85	86	822081	808824	<0.2	1.0	1.0	1.1					
						6.6	1.3	93	28.9	28.9	8.2	8.2	27.0	27.0	86.4	86.5	5.7	5.7	12.3	6	87	88	86	87	822081	808824	<0.2	1.0	1.0	1.2					
						6.6	1.3	101	28.9	28.9	8.2	8.2	27.0	27.0	86.5	86.5	5.7	5.7	12.5	7	87	88	86	87	822081	808824	<0.2	1.0	1.0	1.2					
					IM10	Sunny	Moderate	12:43	8.4	Surface	1.0	1.0	164	29.1	29.1	8.1	8.1	26.5	26.5	85.8	85.8	5.7	5.7	5.3	6	84	86	822385	809801	<0.2	1.1	0.9	1.0		
											1.0	1.1	165	29.1	29.1	8.1	8.1	26.5	26.5	85.7	85.7	5.7	5.7	5.4	6	84	85	86	87	822385	809801	<0.2	0.9	1.0	1.0
											4.2	1.0	174	28.9	28.9	8.1	8.1	27.2	27.2	82.6	82.6	5.5	5.5	10.9	6	85	86	87	88	822385	809801	<0.2	1.0	1.0	1.0
Middle	4.2	1.0	188	28.9						28.9	8.1	8.1	27.2	27.2	82.5	82.5	5.5	5.5	10.9	6	85	86	87	88	822385	809801	<0.2	1.0	1.0	1.0	1.0				
	7.4	0.9	178	29.0						29.0	8.1	8.1	27.2	27.2	82.2	82.3	5.4	5.5	16.1	7	87	88	89	90	822385	809801	<0.2	1.0	1.0	1.1					
	7.4	1.0	187	29.0						29.0	8.1	8.1	27.2	27.2	82.3	82.3	5.5	5.5	16.2	7	87	88	89	90	822385	809801	<0.2	1.0	1.0	1.1					
IM11	Sunny	Moderate	12:53	8.9						Surface	1.0	1.6	155	29.2	29.2	8.1	8.1	26.0	26.0	86.1	86.1	5.7	5.7	4.9	8	82	85	822038	811443	<0.2	0.8	0.9	0.9		
											1.0	1.6	170	29.2	29.2	8.1	8.1	26.0	26.0	86.1	86.1	5.7	5.7	5.0	8	83	84	85	86	822038	811443	<0.2	0.9	1.0	1.0
											4.5	1.2	157	28.9	28.9	8.1	8.1	26.9	26.9	82.7	82.7	5.5	5.5	11.7	7	84	85	86	87	822038	811443	<0.2	0.9	1.0	1.0
					Middle	4.5	1.3	159	28.9	28.9	8.1	8.1	26.9	26.9	82.7	82.7	5.5	5.5	11.6	7	84	85	86	87	822038	811443	<0.2	0.9	1.0	1.0					
						7.9	1.3	163	29.0	29.0	8.1	8.1	27.0	27.0	83.1	83.2	5.5	5.5	13.3	5	87	88	89	90	822038	811443	<0.2	1.0	1.0	1.0					
						7.9	1.3	166	29.0	29.0	8.1	8.1	27.0	27.0	83.2	83.2	5.5	5.5	13.2	5	86	87	88	89	822038	811443	<0.2	0.9	1.0	1.0					
					IM12	Sunny	Moderate	13:00	8.3	Surface	1.0	0.5	95	29.3	29.3	8.1	8.1	24.8	24.8	87.2	87.2	5.8	5.7	4.7	6	82	85	821451	812056	<0.2	1.0	1.0	1.0		
											1.0	0.5	101	29.3	29.3	8.1	8.1	24.8	24.8	87.2	87.2	5.8	5.8	4.8	6	82	83	84	85	821451	812056	<0.2	1.0	1.0	1.0
											4.2	0.4	116	28.9	28.9	8.1	8.1	26.8	26.8	83.3	83.3	5.5	5.5	12.3	7	84	85	86	87	821451	812056	<0.2	1.0	1.0	1.0
Middle	4.2	0.4	121	28.9						28.9	8.1	8.1	26.8	26.8	83.3	83.3	5.5	5.5	12.4	7	84	85	86	87	821451	812056	<0.2	1.0	1.0	1.0					
	7.3	0.2	92	28.9						28.9	8.1	8.1	26.9	26.9	83.8	83.9	5.6	5.6	16.5	8	87	88	89	90	821451	812056	<0.2	0.8	0.9	0.9					
	7.3	0.3	99	28.9						28.9	8.1	8.1	26.9	26.9	83.9	83.9	5.6	5.6	16.9	8	88	89	90	91	821451	812056	<0.2	0.9	1.0	1.0					
SR1A	Sunny	Moderate	13:21	5.6						Surface	1.0	-	-	29.3	29.3	8.1	8.1	25.5	25.5	87.9	88.0	5.8	5.7	5.7	9	-	-	819982	812664	-	-	-	-		
											1.0	-	-	29.3	29.3	8.1	8.1	25.5	25.5	88.0	88.0	5.9	5.9	6.0	9	-	-	-	-	819982	812664	-	-	-	-
											2.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	819982	812664	-	-	-
					Middle	2.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	819982	812664	-	-	-	-				
						4.6	-	-	29.0	29.0	8.1	8.1	26.5	26.5	86.1	86.1	5.7	5.7	5.6	8	-	-	-	-	-	819982	812664	-	-	-	-				
						4.6	-	-	29.0	29.0	8.1	8.1	26.5	26.5	86.0	86.0	5.7	5.7	5.7	8	-	-	-	-	-	819982	812664	-	-	-	-				
					SR2	Sunny	Moderate	13:34	4.6	Surface	1.0	0.4	83	29.0	29.0	8.2	8.2	26.7	26.7	83.9	83.9	5.6	5.6	7.1	9	82	83	821451	814182	<0.2	1.0	1.0	1.0		
											1.0	0.5	90	29.0	29.0	8.2	8.2	26.7	26.7	83.9	83.9	5.6	5.6	7.1	9	82	83	84	85	821451	814182	<0.2	1.0	1.0	1.0
											-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	821451	814182	<0.2	1.0	1.0
Middle	-	-	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	821451	814182	<0.2	1.0	1.0	1.0				
	3.6	0.3	78	29.0						29.0	8.2	8.2	26.9	26.9	83.7	83.7	5.5	5.5	17.7	7	83	84	85	86	821451	814182	<0.2	1.1	1.0	1.0					
	3.6	0.3	85	29.0						29.0	8.2	8.2	26.9	26.9	83.7	83.7	5.5	5.5	17.7	7	83	84	85	86	821451	814182	<0.2	1.1	1.0	1.0					
SR3	Sunny	Moderate	12:21	8.8						Surface	1.0	0.9	29	29.1	29.2	8.1	8.1	25.2	25.2	86.1	86.1	5.7	5.7	5.2	7	-	-	822126	807586	-	-	-	-		
											1.0	1.0	31	29.2	29.2	8.1	8.1	25.2	25.2	86.1	86.1	5.8	5.8	5.2	7	-	-	-	-	822126	807586	-	-	-	-
											4.4	0.8	40	28.9	28.9	8.1	8.1	26.4	26.4	84.3	84.3	5.6	5.6	7.3	7	-	-	-	-	822126	807586	-	-	-	-
					Middle	4.4	0.8	43	28.9	28.9	8.1	8.1	26.4	26.4	84.3	84.3	5.6	5.6	7.3	6	-	-	-	-	822126	807586	-	-	-	-					
						7.8	0.9	24	29.0	29.0	8.2	8.2	27.0	27.0	86.8	86.8	5.8	5.8	15.0	6	-	-	-	-	822126	807586	-	-	-	-					
						7.8	0.9	25	29.0	29.0	8.2	8.2	27.0	27.0	86.8	86.8	5.8	5.8	15.2	6	-	-	-	-	822126	807586	-	-	-	-					
					SR4A	Cloudy	Calm	13:34	9.0	Surface	1.0	0.2	68	28.6	28.6	8.2	8.2	26.6	26.6	92.1	92.0	6.2	6.1	4.4	7	-	-	817209	807805	-	-	-	-		
											1.0	0.2	69	28.6	28.6	8.2	8.2	26.6	26.6	91.8	91.8	6.1	6.1	4.7	7	-	-	-	-	817209	807805	-	-	-	-
											4.5	0.3	74	28.4	28.4	8.2	8.2	27.5	27.5	89.7	89.8	6.0	6.0	8.1	6	-	-	-	-	817209	807805	-	-	-	-
Middle	4.5	0.3	81	28.4						28.4	8.2	8.2	27.5	27.5	89.8	89.8	6.0	6.0	8.3	6	-	-	-	-	817209	807805	-	-	-	-					
	8.0	0.1	58	28.4						28.4	8.2	8.2	27.5	27.5	91.6	91.8	6.1	6.1	10.0	5	-	-	-	-	817209	807805	-	-	-	-					
	8.0	0.1	58	28.4						28.4	8.2	8.2	27.5	27.5	91.9	91.9	6.1	6.1	10.7	5	-	-	-	-	817209	807805	-	-	-	-					
SR5A	Cloudy	Calm	13:52	5.1						Surface	1.0	0.1	62	29.0	29.0	8.1	8.1	26.6	26.6	95.9	95.9	6.4	6.4	3.8	6	-	-	816610	810679	-	-	-	-		
											1.0																								

Expansion of Hong Kong International Airport into a Three-Runway System  
Water Quality Monitoring

Water Quality Monitoring Results on 03 October 20 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)	Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity (NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)						
								Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA	Value	DA	
C1	Cloudy	Moderate	08:12	8.9	Surface	1.0	0.6	55	28.2	28.2	8.2	8.2	25.3	25.3	87.1	87.1	5.9	5.9	6.9	6	6	85	85			<0.2	1.0							
						1.0	0.6	60	28.2	28.2	8.2	8.2	25.3	25.3	87.1	87.1	5.9	5.9	6.9	6	6	86	86			<0.2	1.0							
						4.5	0.6	54	28.3	28.3	8.2	8.2	28.7	28.7	86.7	86.7	5.8	5.8	7.3	6	6	89	89			<0.2	1.1							
					Middle	4.5	0.7	55	28.3	28.3	8.2	8.2	28.8	28.8	86.7	86.7	5.8	5.8	7.3	6	6	89	89			<0.2	1.3							
						7.9	0.4	49	28.3	28.3	8.2	8.2	28.8	28.8	87.4	87.4	5.8	5.8	10.0	7	7	89	89			<0.2	1.2							
						7.9	0.5	53	28.3	28.3	8.2	8.2	28.8	28.8	87.5	87.5	5.8	5.8	10.0	7	7	89	89			<0.2	1.3							
					C2	Sunny	Moderate	08:28	12.5	Surface	1.0	0.3	350	29.0	29.0	8.1	8.1	21.1	21.1	80.5	80.5	5.5	5.5	4.3	6	6	86	86			<0.2	1.2		
											1.0	0.3	322	29.0	29.0	8.1	8.1	21.1	21.1	80.5	80.5	5.5	5.5	4.3	5	5	87	87			<0.2	1.2		
											6.3	0.4	28	29.1	29.1	8.1	8.1	25.0	25.0	81.1	81.1	5.4	5.4	5.9	6	6	88	88			<0.2	1.3		
Middle	6.3	0.4	30	29.1						29.1	8.1	8.1	25.0	25.0	81.1	81.1	5.4	5.4	5.9	6	6	89	89			<0.2	1.4							
	11.5	0.4	346	29.1						29.1	8.2	8.2	25.5	25.5	80.0	80.0	5.3	5.3	13.7	6	6	91	91			<0.2	1.2							
	11.5	0.4	318	29.1						29.1	8.2	8.2	25.5	25.5	80.0	80.0	5.3	5.3	14.0	6	6	90	90			<0.2	1.2							
C3	Sunny	Moderate	06:39	10.8						Surface	1.0	0.3	241	28.9	28.9	8.2	8.2	27.1	27.1	82.6	82.6	5.5	5.5	4.9	7	7	85	85			<0.2	1.0		
											1.0	0.3	241	28.9	28.9	8.2	8.2	27.1	27.1	82.6	82.6	5.5	5.5	4.9	7	7	84	84			<0.2	0.9		
											5.4	0.4	252	29.0	29.0	8.2	8.2	28.0	28.0	80.0	80.0	5.3	5.3	4.7	6	6	89	89			<0.2	1.0		
					Middle	5.4	0.4	265	29.0	29.0	8.2	8.2	28.0	28.0	80.0	80.0	5.3	5.3	4.6	6	6	89	89			<0.2	0.8							
						9.8	0.4	266	29.0	29.0	8.2	8.2	28.5	28.5	78.7	78.7	5.2	5.2	12.0	5	5	90	90			<0.2	0.8							
						9.8	0.4	274	29.0	29.0	8.2	8.2	28.5	28.5	78.8	78.8	5.2	5.2	12.0	5	5	90	90			<0.2	0.8							
					IM1	Cloudy	Moderate	08:32	5.4	Surface	1.0	0.1	322	28.3	28.3	8.2	8.2	28.1	28.1	87.7	87.7	5.8	5.8	10.7	12	12	84	84			<0.2	1.2		
											1.0	0.2	348	28.3	28.3	8.2	8.2	28.1	28.1	87.7	87.7	5.8	5.8	10.7	12	12	85	85			<0.2	1.3		
											-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Middle	-	-	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4.4	0.2	349	28.3						28.3	8.2	8.2	28.2	28.2	88.5	88.5	5.9	5.9	11.0	17	17	89	89			<0.2	1.1							
	4.4	0.2	321	28.3						28.3	8.2	8.2	28.2	28.2	88.5	88.5	5.9	5.9	11.0	16	16	89	89			<0.2	1.1							
IM2	Cloudy	Moderate	08:40	7.4						Surface	1.0	0.4	27	28.2	28.2	8.2	8.2	26.8	26.8	89.2	89.2	6.0	6.0	5.8	8	8	85	85			<0.2	1.3		
											1.0	0.4	27	28.2	28.2	8.2	8.2	26.8	26.8	89.1	89.1	6.0	6.0	5.8	8	8	86	86			<0.2	1.2		
											3.7	0.3	20	28.2	28.2	8.2	8.2	27.7	27.7	88.7	88.7	5.9	5.9	11.1	9	9	89	89			<0.2	1.2		
					Middle	3.7	0.3	21	28.2	28.2	8.2	8.2	27.7	27.7	88.8	88.8	5.9	5.9	11.4	9	9	89	89			<0.2	1.2							
						6.4	0.2	330	28.2	28.2	8.2	8.2	27.9	27.9	92.3	92.3	6.2	6.2	14.5	10	10	90	90			<0.2	1.3							
						6.4	0.2	346	28.2	28.2	8.2	8.2	27.8	27.8	92.6	92.6	6.2	6.2	14.4	10	10	90	90			<0.2	1.3							
					IM3	Cloudy	Moderate	08:47	7.6	Surface	1.0	0.4	5	28.3	28.3	8.2	8.2	27.3	27.3	87.9	87.9	5.9	5.9	10.9	10	10	85	85			<0.2	1.2		
											1.0	0.4	5	28.3	28.3	8.2	8.2	27.4	27.4	87.9	87.9	5.9	5.9	11.1	9	9	86	86			<0.2	1.3		
											3.8	0.3	9	28.3	28.3	8.2	8.2	27.7	27.7	87.9	87.9	5.9	5.9	13.5	10	10	89	89			<0.2	1.1		
Middle	3.8	0.3	9	28.3						28.3	8.2	8.2	27.7	27.7	88.0	88.0	5.9	5.9	13.6	9	9	89	89			<0.2	1.2							
	6.6	0.3	349	28.3						28.3	8.2	8.2	27.7	27.7	89.4	89.4	6.0	6.0	15.9	8	8	90	90			<0.2	1.2							
	6.6	0.3	353	28.3						28.3	8.2	8.2	27.7	27.7	89.9	89.9	6.0	6.0	15.9	8	8	91	91			<0.2	1.2							
IM4	Cloudy	Moderate	08:55	7.9						Surface	1.0	0.9	347	28.3	28.3	8.2	8.2	26.7	26.7	87.9	87.9	5.9	5.9	10.6	9	9	86	86			<0.2	1.3		
											1.0	0.9	351	28.3	28.3	8.2	8.2	26.7	26.7	87.9	87.9	5.9	5.9	10.5	9	9	87	87			<0.2	1.3		
											4.0	0.7	341	28.3	28.3	8.2	8.2	27.4	27.4	87.2	87.2	5.8	5.8	13.7	9	9	89	89			<0.2	1.3		
					Middle	4.0	0.7	344	28.3	28.3	8.2	8.2	27.4	27.4	87.3	87.3	5.8	5.8	13.5	9	9	90	90			<0.2	1.4							
						6.9	0.5	336	28.3	28.3	8.2	8.2	27.4	27.4	87.9	87.9	5.9	5.9	12.7	10	10	90	90			<0.2	1.5							
						6.9	0.6	350	28.3	28.3	8.2	8.2	27.4	27.4	88.2	88.2	5.9	5.9	12.6	10	10	91	91			<0.2	1.4							
					IM5	Cloudy	Moderate	09:02	8.1	Surface	1.0	1.0	26	28.3	28.3	8.2	8.2	26.8	26.8	87.7	87.7	5.9	5.9	12.3	10	10	85	85			<0.2	1.3		
											1.0	1.1	26	28.3	28.3	8.2	8.2	26.8	26.8	87.6	87.6	5.9	5.9	12.3	10	10	85	85			<0.2	1.3		
											4.1	0.9	25	28.3	28.3	8.2	8.2	27.5	27.5	86.9	86.9	5.8	5.8	14.2	10	10	89	89			<0.2	1.4		
Middle	4.1	0.9	26	28.3						28.3	8.2	8.2	27.5	27.5	86.9	86.9	5.8	5.8	14.3	10	10	89	89			<0.2	1.4							
	7.1	0.6	30	28.3						28.3	8.2	8.2	27.6	27.6	87.2	87.2	5.8	5.8	17.9	12	12	90	90			<0.2	1.4							
	7.1	0.7	30	28.3						28.3	8.2	8.2	27.6	27.6	87.2	87.2	5.8	5.8	17.7	12	12	90	90			<0.2	1.4							
IM6	Cloudy	Moderate	09:11	7.9						Surface	1.0	0.1	174	28.4	28.4	8.1	8.1	22.4	22.4	85.0	85.0	5.8	5.8	4.0	5	5	87	87			<0.2	1.4		
											1.0	0.1	186	28.4	28.4	8.1	8.1	22.4	22.4	85.0	85.0	5.8	5.8	4.0	6	6	87	87			<0.2	1.4		
											4.0	0.2	90	28.3	28.3	8.2	8.2	25																

Expansion of Hong Kong International Airport into a Three-Runway System  
Water Quality Monitoring

Water Quality Monitoring Results on 03 October 20 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)	Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity (NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)					
								Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA		
								IM9	Sunny	Moderate	07:55	7.5	Surface	1.0	0.7	221	28.9	28.9	8.1	8.1	24.9	24.9	83.7			83.7	5.6	5.6	9.2	13.6	14	13	84
					Surface	1.0	0.8	230	28.9	28.9	8.1	8.1	24.9	24.9	83.7	83.7	5.6	5.6	9.2		14		83										
					Surface	3.8	0.8	208	28.9	28.9	8.1	8.1	25.3	25.3	83.6	83.6	5.6	5.6	14.3		13		87										
					Surface	3.8	0.8	222	28.9	28.9	8.1	8.1	25.3	25.3	83.6	83.6	5.6	5.6	14.2		13		87										
					Surface	6.5	1.0	185	28.9	28.9	8.1	8.1	25.4	25.4	83.6	83.6	5.6	5.6	17.2		12		90										
					Surface	6.5	1.1	187	28.9	28.9	8.1	8.1	25.4	25.4	83.6	83.6	5.6	5.6	17.4		12		90										
					Middle	1.0	0.6	320	28.9	28.9	8.2	8.2	26.1	26.1	84.2	84.2	5.6	5.6	13.0		18		83										
					Middle	1.0	0.6	345	28.9	28.9	8.2	8.2	26.1	26.1	84.2	84.2	5.6	5.6	12.8		18		81										
					Middle	4.0	0.4	311	28.9	28.9	8.2	8.2	26.1	26.1	84.2	84.2	5.6	5.6	13.0		20		82										
					Middle	4.0	0.4	313	28.9	28.9	8.2	8.2	26.1	26.1	84.2	84.2	5.6	5.6	12.8		20		83										
					Middle	7.0	0.5	308	28.9	28.9	8.2	8.2	26.1	26.1	84.3	84.4	5.6	5.6	14.0		24		93										
					Middle	7.0	0.5	315	28.9	28.9	8.2	8.2	26.1	26.1	84.4	84.4	5.6	5.6	14.1		24		93										
					Bottom	1.0	1.2	280	28.9	28.9	8.2	8.2	26.5	26.5	84.0	84.0	5.6	5.6	10.7		12		83										
					Bottom	1.0	1.2	299	28.9	28.9	8.2	8.2	26.5	26.5	84.0	84.0	5.6	5.6	10.4		12		82										
					Bottom	4.4	1.1	285	28.9	28.9	8.2	8.2	26.6	26.6	83.6	83.6	5.6	5.6	13.2		15		87										
					Bottom	4.4	1.1	289	28.9	28.9	8.2	8.2	26.6	26.6	83.6	83.6	5.6	5.6	13.3		16		87										
					Bottom	7.8	1.1	284	28.9	28.9	8.2	8.2	26.6	26.6	83.7	83.7	5.6	5.6	16.8		16		90										
					Bottom	7.8	1.1	296	28.9	28.9	8.2	8.2	26.6	26.6	83.7	83.7	5.6	5.6	16.6		16		89										
					Surface	1.0	0.9	276	28.9	28.9	8.2	8.2	26.7	26.7	83.4	83.4	5.5	5.5	14.4		8		85										
					Surface	1.0	0.9	292	28.9	28.9	8.2	8.2	26.7	26.7	83.4	83.4	5.5	5.5	14.3		9		85										
					Surface	4.3	0.9	287	28.9	28.9	8.2	8.2	26.7	26.7	82.8	82.8	5.5	5.5	15.2		11		89										
					Surface	4.3	1.0	293	28.9	28.9	8.2	8.2	26.7	26.7	82.8	82.8	5.5	5.5	15.2		11		90										
					Surface	7.6	1.1	299	28.9	28.9	8.2	8.2	26.8	26.8	82.7	82.8	5.5	5.5	16.4		16		92										
					Surface	7.6	1.1	316	28.9	28.9	8.2	8.2	26.8	26.8	82.8	82.8	5.5	5.5	16.4		17		92										
					Middle	1.0	-	-	28.8	28.8	8.2	8.2	26.4	26.3	83.2	83.2	5.6	5.6	3.9		7		-										
					Middle	1.0	-	-	28.8	28.8	8.2	8.2	26.3	26.3	83.2	83.2	5.6	5.6	3.9		7		-										
					Middle	2.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
					Middle	2.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-									
					Middle	4.1	-	-	28.8	28.8	8.2	8.2	26.5	26.5	81.2	81.2	5.4	5.4	5.0		5		-										
					Middle	4.1	-	-	28.8	28.8	8.2	8.2	26.5	26.5	81.2	81.2	5.4	5.4	4.9		5		-										
					Bottom	1.0	0.2	80	28.9	28.9	8.2	8.2	27.0	27.0	82.6	82.6	5.5	5.5	10.8		6		85										
					Bottom	1.0	0.2	82	28.9	28.9	8.2	8.2	27.0	27.0	82.6	82.6	5.5	5.5	10.6		6		85										
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-									
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-										
					Bottom	3.6	0.2	65	28.9	28.9	8.2	8.2	27.0	27.0	82.3	82.3	5.5	5.5	11.2		8		88										
					Bottom	3.6	0.2	69	28.9	28.9	8.2	8.2	27.0	27.0	82.3	82.3	5.5	5.5	11.2		8		87										
					Surface	1.0	1.5	302	28.9	28.9	8.1	8.1	22.9	22.9	82.7	82.7	5.6	5.6	4.2		6		-										
					Surface	1.0	1.6	308	28.9	28.9	8.1	8.1	22.9	22.9	82.7	82.7	5.6	5.6	4.2		6		-										
					Surface	4.6	1.4	270	29.0	29.0	8.1	8.1	23.1	23.1	81.2	81.2	5.5	5.5	4.3		8		-										
					Surface	4.6	1.5	292	29.0	29.0	8.1	8.1	23.1	23.1	81.2	81.2	5.5	5.5	4.3		8		-										
					Surface	8.1	1.3	262	29.1	29.1	8.1	8.1	24.1	24.2	80.7	80.7	5.4	5.4	7.0		10		-										
					Surface	8.1	1.4	268	29.1	29.1	8.1	8.1	24.2	24.2	80.7	80.7	5.4	5.4	7.0		10		-										
					Middle	1.0	0.1	75	28.2	28.2	8.2	8.2	27.1	27.1	86.8	86.8	5.8	5.8	6.8		12		-										
					Middle	1.0	0.1	78	28.2	28.2	8.2	8.2	27.2	27.2	86.7	86.7	5.8	5.8	6.9		12		-										
					Middle	4.6	0.1	92	28.2	28.2	8.2	8.2	27.2	27.2	86.5	86.5	5.8	5.8	8.3		12		-										
					Middle	4.6	0.1	97	28.2	28.2	8.2	8.2	27.2	27.2	86.5	86.5	5.8	5.8	8.5		12		-										
					Middle	8.2	0.2	80	28.2	28.2	8.3	8.3	27.2	27.2	87.2	87.3	5.9	5.9	8.8		10		-										
					Middle	8.2	0.2	80	28.2	28.2	8.3	8.3	27.2	27.2	87.3	87.3	5.9	5.9	8.9		10		-										
					Bottom	1.0	0.2	316	28.2	28.2	8.1	8.1	26.7	26.7	86.5	86.5	5.8	5.8	5.1		8		-										
					Bottom																												



Expansion of Hong Kong International Airport into a Three-Runway System

Water Quality Monitoring

Water Quality Monitoring Results on 06 October 20 during Mid-Ebb Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)	Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity (NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)					
								Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA		
C1	Cloudy	Moderate	14:34	9.3	Surface	1.0	2.3	352	28.8	28.8	8.1	8.1	27.1	27.1	92.5	92.4	6.2	6.0	1.5	3	87	91	815598	804243	<0.2	0.7	<0.2	0.7					
						1.0	2.5	324	28.8	8.1	8.1	27.1	27.1	92.2	92.4	6.1	6.0	1.5	4	88	91	815598	804243	<0.2	0.7	<0.2	0.7						
						4.7	2.4	350	28.7	8.2	8.2	29.7	29.7	88.0	87.9	5.8	5.8	4.1	4	90	91	815598	804243	<0.2	0.9	<0.2	0.9						
					Middle	4.7	2.5	322	28.7	8.2	8.2	29.8	29.7	87.7	87.9	5.8	5.8	4.3	3	91	91	815598	804243	<0.2	1.0	<0.2	1.0						
						8.3	2.1	352	28.8	8.2	8.2	30.4	30.4	87.2	87.4	5.7	5.7	5.0	4	94	91	815598	804243	<0.2	1.1	<0.2	1.1						
						8.3	2.2	352	28.8	8.2	8.2	30.4	30.4	87.5	87.4	5.7	5.7	5.1	5	95	91	815598	804243	<0.2	1.0	<0.2	1.0						
					C2	Cloudy	Moderate	13:33	11.7	Surface	1.0	0.3	64	28.6	28.6	8.2	8.2	23.3	23.3	88.6	88.6	6.0	5.8	8.1	4	87	89	825660	806965	<0.2	1.1	<0.2	1.1
											1.0	0.3	69	28.5	28.5	8.2	8.2	23.3	23.3	88.5	88.6	6.0	5.8	8.7	4	88	89	825660	806965	<0.2	1.1	<0.2	1.1
											5.9	0.3	117	28.5	28.5	8.2	8.2	25.9	25.9	83.0	82.9	5.6	5.6	10.1	4	88	89	825660	806965	<0.2	1.1	<0.2	1.1
Middle	5.9	0.3	120	28.5						28.5	8.2	8.2	25.9	25.9	82.8	82.9	5.6	5.6	10.2	5	89	89	825660	806965	<0.2	1.0	<0.2	1.0					
	10.7	0.2	133	28.5						28.5	8.2	8.2	26.5	26.5	81.8	81.9	5.5	5.5	9.3	5	90	89	825660	806965	<0.2	1.1	<0.2	1.1					
	10.7	0.2	141	28.5						28.5	8.2	8.2	26.5	26.5	81.9	81.9	5.5	5.5	9.6	4	91	89	825660	806965	<0.2	1.0	<0.2	1.0					
C3	Cloudy	Moderate	15:22	12.6						Surface	1.0	0.5	69	28.5	28.5	8.2	8.2	26.3	26.4	88.6	88.5	5.9	5.9	3.5	4	86	88	822090	817823	<0.2	0.8	<0.2	0.8
											1.0	0.5	71	28.5	28.5	8.2	8.2	26.4	26.4	88.4	88.5	5.9	5.9	3.5	4	87	88	822090	817823	<0.2	0.8	<0.2	0.8
											6.3	0.5	89	28.5	28.5	8.2	8.2	27.6	27.6	86.8	86.8	5.8	5.8	4.1	2	88	89	822090	817823	<0.2	1.2	<0.2	1.2
					Middle	6.3	0.5	97	28.5	28.5	8.2	8.2	27.6	27.6	86.8	86.8	5.8	5.8	4.1	3	89	89	822090	817823	<0.2	1.1	<0.2	1.1					
						11.6	0.4	100	28.5	28.5	8.2	8.2	27.9	27.9	87.2	87.3	5.8	5.8	4.4	2	90	89	822090	817823	<0.2	0.8	<0.2	0.8					
						11.6	0.4	104	28.5	28.5	8.2	8.2	27.9	27.9	87.3	87.3	5.8	5.8	4.4	2	90	89	822090	817823	<0.2	0.8	<0.2	0.8					
					IM1	Cloudy	Moderate	14:15	5.5	Surface	1.0	1.9	311	28.7	28.7	8.1	8.1	27.6	27.6	88.6	88.4	5.9	5.9	2.3	3	88	90	817945	807129	<0.2	0.6	<0.2	0.6
											1.0	2.0	339	28.7	28.7	8.1	8.1	27.7	27.6	88.1	88.1	5.8	5.8	2.6	2	88	90	817945	807129	<0.2	0.6	<0.2	0.6
											-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Middle	-	-	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4.5	1.3	312	28.6						28.6	8.1	8.1	28.1	28.0	89.1	89.3	5.9	5.9	4.2	4	91	91	817945	807129	<0.2	0.5	<0.2	0.5					
	4.5	1.3	328	28.6						28.6	8.1	8.1	28.0	28.0	89.5	89.5	5.9	5.9	4.0	4	91	91	817945	807129	<0.2	0.5	<0.2	0.5					
IM2	Cloudy	Moderate	14:08	7.9						Surface	1.0	1.6	295	28.8	28.8	8.1	8.1	27.7	27.8	90.2	90.1	6.0	5.9	4.6	4	85	89	818147	806167	<0.2	0.6	<0.2	0.6
											1.0	1.7	306	28.8	28.8	8.1	8.1	27.9	27.8	90.0	90.0	6.0	6.0	4.8	3	86	89	818147	806167	<0.2	0.7	<0.2	0.7
											4.0	1.6	298	28.8	28.8	8.1	8.1	28.9	28.9	85.8	85.9	5.7	5.7	5.6	4	87	89	818147	806167	<0.2	0.8	<0.2	0.8
					Middle	4.0	1.6	322	28.8	28.8	8.1	8.1	28.9	28.9	85.9	85.9	5.7	5.7	5.7	3	90	89	818147	806167	<0.2	0.8	<0.2	0.8					
						6.9	1.7	300	28.8	28.8	8.1	8.1	29.2	29.2	85.9	86.0	5.6	5.6	7.6	4	93	89	818147	806167	<0.2	0.8	<0.2	0.8					
						6.9	1.9	311	28.8	28.8	8.1	8.1	29.2	29.2	86.0	86.0	5.7	5.7	7.8	4	94	89	818147	806167	<0.2	0.8	<0.2	0.8					
					IM3	Cloudy	Moderate	14:02	8.0	Surface	1.0	0.8	113	28.8	28.8	8.1	8.1	27.9	28.0	88.0	87.7	5.8	5.8	4.1	4	83	89	818763	805614	<0.2	0.8	<0.2	0.8
											1.0	0.8	115	28.8	28.8	8.1	8.1	28.2	28.0	87.3	87.2	5.8	5.8	4.2	4	84	89	818763	805614	<0.2	0.9	<0.2	0.9
											4.0	0.9	120	28.8	28.8	8.1	8.1	29.2	29.2	85.9	85.9	5.6	5.6	5.8	6	91	89	818763	805614	<0.2	0.7	<0.2	0.7
Middle	4.0	0.9	121	28.8						28.8	8.1	8.1	29.2	29.2	85.9	85.9	5.6	5.6	5.9	5	91	89	818763	805614	<0.2	0.8	<0.2	0.8					
	7.0	1.6	111	28.7						28.7	8.1	8.1	29.3	29.3	87.1	87.2	5.7	5.7	6.5	6	93	89	818763	805614	<0.2	0.8	<0.2	0.8					
	7.0	1.7	120	28.7						28.7	8.1	8.1	29.3	29.3	87.3	87.3	5.7	5.7	6.7	7	94	89	818763	805614	<0.2	0.6	<0.2	0.6					
IM4	Cloudy	Moderate	13:53	9.0						Surface	1.0	0.6	287	28.8	28.8	8.1	8.1	27.3	27.3	91.6	91.4	6.1	6.1	2.2	4	87	89	819714	804614	<0.2	0.8	<0.2	0.8
											1.0	0.7	287	28.8	28.8	8.1	8.1	27.3	27.3	91.2	91.2	6.1	6.1	2.3	4	87	89	819714	804614	<0.2	0.8	<0.2	0.8
											4.5	1.5	257	28.8	28.8	8.1	8.1	29.3	29.3	86.5	86.5	5.7	5.7	4.3	3	90	89	819714	804614	<0.2	0.8	<0.2	0.8
					Middle	4.5	1.6	261	28.8	28.8	8.1	8.1	29.3	29.3	86.4	86.4	5.7	5.7	4.4	3	90	89	819714	804614	<0.2	0.8	<0.2	0.8					
						8.0	1.3	261	28.8	28.8	8.1	8.1	29.3	29.3	87.4	87.6	5.7	5.7	5.6	2	91	89	819714	804614	<0.2	0.8	<0.2	0.8					
						8.0	1.4	271	28.8	28.8	8.1	8.1	29.3	29.3	87.7	87.7	5.8	5.8	5.6	3	91	89	819714	804614	<0.2	0.8	<0.2	0.8					
					IM5	Cloudy	Moderate	13:46	8.4	Surface	1.0	1.2	342	28.9	28.9	8.1	8.1	25.2	25.1	89.7	89.7	6.0	6.0	2.1	4	86	90	820715	804849	<0.2	0.7	<0.2	0.7
											1.0	1.2	359	28.9	28.9	8.1	8.1	25.0	25.1	89.6	89.7	6.0	6.0	2.0	4	87	90	820715	804849	<0.2	0.7	<0.2	0.7
											4.2	1.1	345	28.8	28.8	8.1	8.1	28.9	28.9	85.5	85.5	5.6	5.6	5.3	2	90	90	820715	804849	<0.2	0.6	<0.2	0.6
Middle	4.2	1.2	346	28.8						28.8	8.1	8.1	28.9	28.9	85.5	85.5	5.6	5.6	5.3	4	91	90	820715	804849	<0.2	0.7	<0.2	0.7					
	7.4	1.3	12	28.8						28.8	8.1	8.1	28.9	28.9	85.7	85.8	5.6	5.6	6.6	4	93	90	820715	804849	<0.2	0.8	<0.2	0.8					
	7.4	1.4	12	28.8						28.8	8.1	8.1	28.9	28.9	85.8	85.8	5.7	5.7	6.4	3	93	90	820715	804849	<0.2	0.8	<0.2	0.8					
IM6	Cloudy	Moderate	13:40	8.2						Surface	1.0	1.1	6	28.9	28.9	8.1	8.1	24.4	24.5	88.2	88.2	5.9	5.9	2.0	3	86	90	821065	805832	<0.2	0.5	<0.2	0.5



Expansion of Hong Kong International Airport into a Three-Runway System  
Water Quality Monitoring

Water Quality Monitoring Results on 06 October 20 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)	Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity (NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)			
								Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA
C1	Cloudy	Moderate	09:57	9.0	Surface	1.0	2.3	150	28.7	28.7	8.1	8.1	26.9	26.9	86.9	86.9	5.8	5.8	3.1	6	87	87					<0.2	0.9			
						1.0	2.4	159	28.7	28.7	8.1	8.1	26.9	26.9	86.8	86.8	5.8	5.8	3.2	5	88	88					<0.2	0.8			
						4.5	2.7	151	28.7	28.7	8.1	8.1	28.9	28.8	86.2	86.2	5.7	5.7	6.7	5	91	91					<0.2	0.5			
					Middle	4.5	2.9	163	28.7	28.7	8.1	8.1	28.8	28.8	86.2	86.2	5.7	5.7	6.6	4	92	92					<0.2	0.6			
						8.0	2.5	152	28.7	28.7	8.1	8.1	29.6	29.6	85.7	85.7	5.6	5.6	7.8	4	92	92					<0.2	0.6			
						8.0	2.7	159	28.7	28.7	8.1	8.1	29.6	29.6	85.7	85.7	5.6	5.6	7.9	5	92	92					<0.2	0.7			
					Bottom	1.0	0.2	338	28.6	28.6	8.1	8.1	21.8	21.8	85.8	85.8	5.9	5.9	4.8	4	86	86					<0.2	1.0			
						1.0	0.2	311	28.6	28.6	8.1	8.1	21.8	21.8	85.5	85.5	5.9	5.9	4.8	4	86	86					<0.2	1.0			
						6.2	0.4	29	28.5	28.5	8.1	8.1	23.7	23.7	83.2	83.2	5.7	5.7	7.3	6.9	4	88	88					<0.2	0.9		
C2	Cloudy	Moderate	10:40	12.4	Surface	1.0	0.6	242	28.5	28.5	8.2	8.2	25.9	25.9	83.8	83.8	5.6	5.6	4.3	3	87	87					<0.2	1.0			
						1.0	0.6	246	28.5	28.5	8.2	8.2	25.9	25.9	83.7	83.7	5.6	5.6	4.3	3	86	86					<0.2	1.0			
						5.9	0.5	236	28.6	28.6	8.2	8.2	27.1	27.1	82.7	82.7	5.5	5.5	5.0	3	88	88					<0.2	0.9			
					Middle	5.9	0.5	250	28.6	28.6	8.2	8.2	27.2	27.2	82.7	82.7	5.5	5.5	5.0	4	88	88					<0.2	0.9			
						10.7	0.2	249	28.5	28.5	8.2	8.2	27.9	27.9	85.0	85.0	5.7	5.7	9.6	5	90	90					<0.2	0.9			
						10.7	0.3	271	28.5	28.5	8.2	8.2	27.9	27.9	85.2	85.2	5.7	5.7	9.6	6	90	90					<0.2	0.9			
					Bottom	11.4	0.3	5	28.5	28.5	8.1	8.1	26.8	26.8	81.7	81.7	5.5	5.5	8.3	3	90	90					<0.2	0.9			
						11.4	0.3	5	28.5	28.5	8.1	8.1	26.8	26.8	81.9	81.9	5.5	5.5	8.6	3	90	90					<0.2	0.9			
						11.4	0.3	5	28.5	28.5	8.1	8.1	26.8	26.8	83.8	83.8	5.6	5.6	4.3	3	86	86					<0.2	0.9			
C3	Cloudy	Moderate	08:49	11.7	Surface	1.0	0.6	242	28.5	28.5	8.2	8.2	25.9	25.9	83.8	83.8	5.6	5.6	4.3	3	87	87					<0.2	1.0			
						1.0	0.6	246	28.5	28.5	8.2	8.2	25.9	25.9	83.7	83.7	5.6	5.6	4.3	3	86	86					<0.2	1.0			
						5.9	0.5	236	28.6	28.6	8.2	8.2	27.1	27.1	82.7	82.7	5.5	5.5	5.0	3	88	88					<0.2	0.9			
					Middle	5.9	0.5	250	28.6	28.6	8.2	8.2	27.2	27.2	82.7	82.7	5.5	5.5	5.0	4	88	88					<0.2	0.9			
						10.7	0.2	249	28.5	28.5	8.2	8.2	27.9	27.9	85.0	85.0	5.7	5.7	9.6	5	90	90					<0.2	0.9			
						10.7	0.3	271	28.5	28.5	8.2	8.2	27.9	27.9	85.2	85.2	5.7	5.7	9.6	6	90	90					<0.2	0.9			
					Bottom	11.4	0.3	5	28.5	28.5	8.1	8.1	26.8	26.8	81.7	81.7	5.5	5.5	8.3	3	90	90					<0.2	0.9			
						11.4	0.3	5	28.5	28.5	8.1	8.1	26.8	26.8	81.9	81.9	5.5	5.5	8.6	3	90	90					<0.2	0.9			
						11.4	0.3	5	28.5	28.5	8.1	8.1	26.8	26.8	83.8	83.8	5.6	5.6	4.3	3	86	86					<0.2	0.9			
IM1	Cloudy	Calm	10:16	5.3	Surface	1.0	2.5	338	28.6	28.6	8.1	8.1	28.8	28.8	84.0	84.0	5.5	5.5	5.9	6	86	86					<0.2	0.6			
						1.0	2.5	339	28.6	28.6	8.1	8.1	28.8	28.8	83.9	83.9	5.5	5.5	5.9	5	86	86					<0.2	0.7			
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					Middle	4.3	2.3	342	28.6	28.6	8.1	8.1	28.9	28.9	83.5	83.5	5.5	5.5	7.6	8	90	90					<0.2	0.6			
						4.3	2.3	315	28.6	28.6	8.1	8.1	28.9	28.9	83.7	83.7	5.5	5.5	7.8	7	90	90					<0.2	0.6			
						4.3	2.3	315	28.6	28.6	8.1	8.1	28.9	28.9	83.7	83.7	5.5	5.5	7.8	7	90	90					<0.2	0.6			
					Bottom	1.0	2.1	174	28.8	28.8	8.1	8.1	26.2	26.2	87.6	87.6	5.9	5.9	3.5	14	86	86					<0.2	0.9			
						1.0	2.1	184	28.8	28.8	8.1	8.1	26.2	26.2	87.4	87.4	5.8	5.8	3.6	13	86	86					<0.2	1.0			
						3.7	2.0	171	28.8	28.8	8.1	8.1	28.3	28.3	84.7	84.7	5.6	5.6	6.5	11	90	90					<0.2	0.8			
Middle	3.7	2.1	181	28.7	28.7	8.1	8.1	28.4	28.4	84.6	84.6	5.6	5.6	6.6	10	90	90					<0.2	0.9								
	6.4	2.2	175	28.7	28.7	8.1	8.1	28.7	28.7	84.4	84.4	5.6	5.6	8.0	8	91	91					<0.2	0.9								
	6.4	2.4	179	28.7	28.7	8.1	8.1	28.7	28.7	84.4	84.4	5.6	5.6	7.9	7	91	91					<0.2	0.9								
IM2	Cloudy	Moderate	10:24	7.4	Surface	1.0	2.2	272	28.8	28.8	8.1	8.1	26.3	26.3	85.7	85.7	5.7	5.7	6.6	6	87	87					<0.2	1.0			
						1.0	2.3	273	28.8	28.8	8.1	8.1	26.3	26.3	85.2	85.2	5.7	5.7	6.9	6	87	87					<0.2	1.1			
						3.8	1.9	272	28.8	28.8	8.1	8.1	28.5	28.5	84.1	84.1	5.6	5.6	7.3	7	89	89					<0.2	0.8			
					Middle	3.8	2.0	272	28.8	28.8	8.1	8.1	28.5	28.5	84.0	84.0	5.5	5.5	7.4	7	89	89					<0.2	0.9			
						6.6	2.1	268	28.7	28.7	8.1	8.1	29.1	29.1	83.4	83.4	5.5	5.5	8.7	8	90	90					<0.2	0.8			
						6.6	2.2	279	28.7	28.7	8.1	8.1	29.0	29.0	83.6	83.6	5.5	5.5	8.9	9	91	91					<0.2	0.8			
					Bottom	1.0	2.2	149	28.8	28.8	8.1	8.1	26.3	26.3	87.2	87.2	5.8	5.8	4.3	6	86	86					<0.2	0.8			
						1.0	2.3	157	28.8	28.8	8.1	8.1	26.3	26.3	86.6	86.6	5.8	5.8	4.3	7	86	86					<0.2	0.9			
						4.2	2.5	149	28.8	28.8	8.1	8.1	28.4	28.4	84.7	84.7	5.6	5.6	5.0	7	89	89					<0.2	0.9			
Middle	4.2	2.5	149	28.8	28.8	8.1	8.1	28.4	28.4	84.8	84.8	5.6	5.6	5.1	7	89	89					<0.2	0.9								
	7.4	2.8	150	28.8	28.8	8.1	8.1	28.5	28.5	85.1	85.1	5.6	5.6	7.3	7	91	91					<0.2	0.9								
	7.4	2.8	160	28.8	28.8	8.1	8.1	28.5	28.5	85.2	85.2	5.6	5.6	7.2	7	91	91					<0.2	0.9								
IM3	Cloudy	Moderate	10:30	7.6	Surface	1.0	2.2	272	28.8	28.8	8.1	8.1	26.3	26.3	85.7	85.7	5.7	5.7	6.6	6	87	87					<0.2	1.0			
						1.0	2.3	273	28.8	28.8	8.1	8.1	26.3	26.3	85.2	85.2	5.7														

Expansion of Hong Kong International Airport into a Three-Runway System  
Water Quality Monitoring

Water Quality Monitoring Results on 06 October 20 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)	Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)	Dissolved Oxygen		Turbidity (NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)									
								Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA					
IM9	Cloudy	Moderate	10:08	7.6	Surface	1.0	0.1	195	28.4	28.4	8.1	8.1	23.6	23.6	86.5	86.5	5.9	5.9	7.4	9	85	89	822091	808822	<0.2	1.0	1.1	1.1								
						1.0	0.1	203	28.4	8.1	8.1	23.6	23.6	86.4	86.4	5.9	5.9	7.6	8	87	88	<0.2	1.0	1.1	1.1											
						3.8	0.2	215	28.4	8.1	8.1	23.7	23.7	86.2	86.2	5.9	5.9	10.6	10	88	88	<0.2	1.1	1.1	1.1											
					Middle	3.8	0.2	217	28.4	8.1	8.1	23.7	23.7	86.2	86.2	5.9	5.9	10.9	9	88	88	<0.2	1.1	1.1	1.1											
						6.6	0.1	168	28.4	8.1	8.1	23.8	23.8	86.9	86.9	5.9	5.9	14.1	10	90	90	<0.2	1.1	1.1	1.1											
						6.6	0.1	182	28.4	8.1	8.1	23.8	23.8	86.9	86.9	5.9	5.9	14.3	10	98	98	<0.2	1.1	1.1	1.1											
					IM10	Cloudy	Moderate	10:01	8.3	Surface	1.0	0.6	289	28.4	28.4	8.1	8.1	24.4	24.4	87.2	87.2	5.9	5.9	5.6	6	86	89	822383	809808	<0.2	0.9	0.9	0.9			
											1.0	0.6	313	28.4	8.1	8.1	24.4	24.4	87.2	87.2	5.9	5.9	5.6	7	87	88	<0.2	0.9	0.9	0.9						
											4.2	0.6	285	28.4	8.1	8.1	24.6	24.6	86.1	86.1	5.8	5.8	11.7	6	88	88	<0.2	0.9	0.9	0.9						
Middle	4.2	0.6	294	28.4						8.1	8.1	24.6	24.6	86.1	86.1	5.8	5.8	11.5	7	89	89	<0.2	0.9	0.9	0.9											
	7.3	0.4	289	28.4						8.1	8.1	24.6	24.6	87.3	87.3	5.9	5.9	14.8	7	90	90	<0.2	0.9	0.9	0.9											
	7.3	0.4	300	28.4						8.1	8.1	24.6	24.6	87.5	87.5	5.9	5.9	13.7	8	91	91	<0.2	0.9	0.9	0.9											
IM11	Cloudy	Moderate	09:50	8.0						Surface	1.0	0.4	316	28.4	28.4	8.2	8.1	25.0	25.0	85.9	85.9	5.8	5.8	5.1	6	86	88	822047	811450	<0.2	0.9	0.9	0.9			
											1.0	0.5	334	28.4	8.1	8.1	25.0	25.0	85.8	85.8	5.8	5.8	5.1	7	87	88	<0.2	0.9	0.9	0.9						
											4.0	0.5	307	28.4	8.1	8.1	25.2	25.2	84.7	84.7	5.7	5.7	7.7	5	88	88	<0.2	0.8	0.8	0.8						
					Middle	4.0	0.5	323	28.4	8.1	8.1	25.3	25.3	84.6	84.6	5.7	5.7	8.3	4	88	88	<0.2	0.8	0.8	0.8											
						7.0	0.3	304	28.4	8.1	8.1	25.6	25.6	84.0	84.1	5.7	5.7	13.7	4	90	90	<0.2	0.8	0.8	0.8											
						7.0	0.3	331	28.4	8.1	8.1	25.6	25.6	84.1	84.1	5.7	5.7	13.6	4	90	90	<0.2	0.8	0.8	0.8											
					IM12	Cloudy	Moderate	09:44	8.5	Surface	1.0	0.6	282	28.4	28.4	8.2	8.2	25.1	25.1	85.8	85.7	5.8	5.8	7.5	7	86	88	821481	812062	<0.2	0.9	0.9	0.9			
											1.0	0.6	306	28.4	8.2	8.2	25.2	25.1	85.5	85.0	5.8	5.8	8.6	8	87	88	<0.2	0.9	0.9	0.9						
											4.3	0.5	286	28.4	8.2	8.2	25.4	25.4	85.0	85.0	5.7	5.7	11.8	8	88	88	<0.2	0.9	0.9	0.9						
Middle	4.3	0.5	305	28.4						8.2	8.2	25.4	25.4	84.9	84.9	5.7	5.7	11.9	7	87	88	<0.2	0.9	0.9	0.9											
	7.5	0.3	305	28.4						8.1	8.1	25.5	25.5	84.1	84.2	5.7	5.7	11.5	6	90	90	<0.2	0.8	0.8	0.8											
	7.5	0.3	324	28.4						8.1	8.1	25.6	25.5	84.2	84.2	5.7	5.7	11.2	7	90	90	<0.2	0.8	0.8	0.8											
SR1A	Cloudy	Moderate	09:23	5.1						Surface	1.0	-	-	28.3	28.3	8.1	8.1	24.5	24.5	85.3	85.3	5.8	5.8	4.8	10	-	-	819975	812663	-	-	-	-			
											1.0	-	-	28.3	28.3	8.1	8.1	24.5	24.5	85.2	85.2	5.8	5.8	4.9	10	-	-	-	-	-	-	-	-	-	-	
											2.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					Middle	2.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
						4.1	-	-	28.3	28.3	8.1	8.1	24.5	24.5	85.5	85.9	5.8	5.9	4.9	7	-	-	-	-	-	-	-	-	-	-	-					
						4.1	-	-	28.3	28.3	8.1	8.1	24.5	24.5	86.3	85.9	5.9	5.9	4.9	7	-	-	-	-	-	-	-	-	-	-	-					
					SR2	Cloudy	Moderate	09:10	4.8	Surface	1.0	0.2	12	28.4	28.4	8.2	8.2	25.6	25.6	85.9	86.0	5.8	5.8	8.9	8	88	89	821465	814180	<0.2	0.9	0.8	0.9			
											1.0	0.2	12	28.4	28.4	8.2	8.2	25.6	25.6	86.0	86.0	5.8	5.8	9.0	9	87	88	<0.2	0.8	0.8	0.8					
											-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Middle	-	-	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
	3.8	0.1	29	28.4						28.4	8.1	8.1	25.7	25.7	87.6	87.7	5.9	5.9	7.6	10	90	90	<0.2	0.8	0.8	0.8										
	3.8	0.1	30	28.4						28.4	8.1	8.1	25.7	25.7	87.7	87.7	5.9	5.9	7.8	11	90	90	<0.2	0.9	0.9	0.9										
SR3	Cloudy	Moderate	10:20	9.2						Surface	1.0	0.1	76	28.5	28.5	8.1	8.1	23.0	23.0	85.4	85.4	5.8	5.8	8.2	6	-	-	822153	807576	-	-	-	-			
											1.0	0.1	77	28.5	28.5	8.1	8.1	23.0	23.0	85.4	85.4	5.8	5.8	8.2	6	-	-	-	-	-	-	-	-	-		
											4.6	0.0	90	28.5	28.5	8.1	8.1	23.2	23.2	85.5	85.6	5.8	5.8	10.2	6	-	-	-	-	-	-	-	-	-		
					Middle	4.6	0.0	95	28.5	28.5	8.1	8.1	23.2	23.2	85.6	85.6	5.8	5.8	10.2	5	-	-	-	-	-	-	-	-	-	-	-					
						8.2	0.1	279	28.5	28.5	8.1	8.1	23.4	23.4	87.2	87.3	5.9	5.9	12.1	5	-	-	-	-	-	-	-	-	-	-						
						8.2	0.1	297	28.5	28.5	8.1	8.1	23.4	23.4	87.3	87.3	6.0	6.0	13.0	5	-	-	-	-	-	-	-	-	-							
					SR4A	Cloudy	Calm	09:36	9.4	Surface	1.0	1.4	62	28.8	28.8	8.1	8.1	26.2	26.2	83.7	83.6	5.6	5.6	5.3	6	-	-	817200	807815	-	-	-	-			
											1.0	1.5	63	28.8	28.8	8.1	8.1	26.3	26.3	83.5	83.5	5.6	5.6	5.5	7	-	-	-	-	-	-	-	-			
											4.7	2.1	57	28.7	28.7	8.1	8.1	27.1	27.2	83.2	83.2	5.5	5.5	6.7	8	-	-	-	-	-	-	-	-			
Middle	4.7	2.3	57	28.7						28.7	8.1	8.1	27.2	27.2	83.2	83.2	5.5	5.5	6.8	7	-	-	-	-	-	-	-	-	-							
	8.4	1.9	43	28.5						28.5	8.1	8.1	28.7	28.7	83.3	83.4	5.5	5.5	7.8	8	-	-	-	-	-	-	-	-								
	8.4	2.1	46	28.5						28.5	8.1	8.1	28.7	28.7	83.4	83.4	5.5	5.5	8.0	8	-	-	-	-	-	-	-	-								
SR5A	Cloudy	Calm	09:20	3.3						Surface	1.0	0.1	281	28.7	28.7	8.1	8.1	25.2	25.2	84.0	84.0	5.7	5.7	4.3	5	-	-	816586	810717	-	-	-	-			
											1.0	0.1	287	28.7	28.7	8.1	8.1	25.2	25.2	84.0	84.0	5.7	5.7	4.6	6	-	-	-	-	-	-	-				
											-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
						2.3	0.1	283	28.7	28.7	8.0	8.0	25.2	25.2	84.2																					

Expansion of Hong Kong International Airport into a Three-Runway System

Water Quality Monitoring

Water Quality Monitoring Results on 08 October 20 during Mid-Ebb Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)	Current Speed (m/s)		Current Direction		Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity (NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)			
						Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA
						Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA
C1	Fine	Rough	15:53	8.5	Surface	1.0	0.2	231	28.2	28.2	8.0	8.0	31.6	31.6	96.5	96.5	6.3	6.3	1.7	4	87	89	815603	804227	<0.2	0.5	0.4	0.4					
						1.0	0.2	252	28.2	8.0	8.0	31.6	31.6	96.4	96.3	1.7	4	87	89	815603	804227	<0.2	0.4	0.4	0.4								
						4.3	0.2	200	28.2	8.1	8.1	31.8	31.8	93.6	93.6	6.1	5	90	90	815603	804227	<0.2	0.4	0.4	0.4								
					Middle	4.3	0.2	202	28.2	8.1	8.1	31.8	31.8	93.6	93.6	6.1	5	89	89	815603	804227	<0.2	0.4	0.4	0.4								
						7.5	0.2	186	28.2	8.2	8.2	31.9	31.9	91.8	91.8	6.0	5	91	91	815603	804227	<0.2	0.3	0.3	0.3								
						7.5	0.2	196	28.2	8.2	8.2	31.9	31.9	91.8	91.8	6.0	6	92	92	815603	804227	<0.2	0.3	0.3	0.3								
					C2	Cloudy	Moderate	14:46	12.1	Surface	1.0	0.0	284	27.8	27.8	8.2	8.2	27.0	27.0	93.3	93.3	6.3	3.3	3	87	90	825704	806935	<0.2	0.7	0.7	0.7	
											1.0	0.0	311	27.7	8.2	8.2	27.0	27.0	93.3	93.3	3.3	3	88	88	825704	806935	<0.2	0.7	0.7	0.7			
											6.1	0.1	42	27.6	8.3	8.3	27.6	27.6	91.0	90.9	6.1	5.9	4	90	90	825704	806935	<0.2	0.7	0.7	0.7		
Middle	6.1	0.1	44	27.6						8.3	8.3	27.7	27.6	90.7	90.9	6.1	6.5	4	90	90	825704	806935	<0.2	0.7	0.7	0.7							
	11.1	0.3	62	27.6						8.3	8.3	28.1	28.1	91.2	91.4	6.2	9.6	7	92	92	825704	806935	<0.2	0.8	0.8	0.8							
	11.1	0.3	62	27.6						8.3	8.3	28.1	28.1	91.6	91.4	6.2	9.1	6	92	92	825704	806935	<0.2	0.8	0.8	0.8							
C3	Cloudy	Moderate	16:36	12.2						Surface	1.0	0.2	77	28.0	28.0	8.2	8.2	30.4	30.4	86.8	86.7	5.7	3.5	5	88	91	822100	817818	<0.2	0.8	0.6	0.6	
											1.0	0.2	79	28.0	8.2	8.2	30.4	30.4	86.6	86.7	5.7	3.6	4	89	89	822100	817818	<0.2	0.6	0.6	0.6		
											6.1	0.2	79	27.9	8.2	8.2	30.7	30.7	85.8	85.9	5.7	5.8	4	91	91	822100	817818	<0.2	0.5	0.5	0.5		
					Middle	6.1	0.2	83	27.9	8.2	8.2	30.7	30.7	85.9	85.9	5.7	5.8	4	90	90	822100	817818	<0.2	0.5	0.5	0.5							
						11.2	0.1	56	27.9	8.2	8.2	30.6	30.6	86.5	86.6	5.7	5.2	3	94	94	822100	817818	<0.2	0.6	0.6	0.6							
						11.2	0.1	57	27.9	8.2	8.2	30.6	30.6	86.7	86.6	5.7	5.1	4	94	94	822100	817818	<0.2	0.6	0.6	0.6							
					IM1	Fine	Moderate	15:32	4.7	Surface	1.0	0.1	121	28.1	28.1	8.2	8.2	29.9	29.9	98.6	98.5	6.5	1.0	4	87	88	817965	807130	<0.2	0.5	0.4	0.5	
											1.0	0.1	127	28.1	8.2	8.2	29.9	29.9	98.4	98.4	6.5	1.1	5	87	87	817965	807130	<0.2	0.4	0.4	0.4		
											-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Middle	-	-	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3.7	0.1	217	28.3						28.3	8.2	8.2	30.7	30.7	95.1	95.0	6.2	2.1	3	89	89	817965	807130	<0.2	0.5	0.5	0.5						
	3.7	0.2	233	28.3						8.2	8.2	30.7	30.7	94.9	94.9	6.2	2.2	4	89	89	817965	807130	<0.2	0.5	0.5	0.5							
IM2	Fine	Rough	15:24	6.9						Surface	1.0	0.1	165	28.1	28.1	8.0	8.0	29.8	29.8	97.5	97.5	6.5	1.2	4	85	85	818154	806167	<0.2	0.5	0.5	0.5	
											1.0	0.1	172	28.1	8.0	8.0	29.8	29.8	97.4	97.4	6.5	1.2	5	85	85	818154	806167	<0.2	0.5	0.5	0.5		
											3.5	0.2	213	28.0	8.0	8.0	30.2	30.3	92.0	91.9	6.1	4.7	5	88	88	818154	806167	<0.2	0.5	0.5	0.5		
					Middle	3.5	0.2	233	28.0	8.0	8.0	30.3	30.3	91.8	91.8	6.1	5.0	4	88	88	818154	806167	<0.2	0.5	0.5	0.5							
						5.9	0.1	190	27.9	8.0	8.0	30.5	30.5	90.8	90.8	6.0	7.6	5	90	90	818154	806167	<0.2	0.5	0.5	0.5							
						5.9	0.1	193	27.9	8.0	8.0	30.5	30.5	90.8	90.8	6.0	7.6	5	89	89	818154	806167	<0.2	0.5	0.5	0.5							
					IM3	Fine	Rough	15:17	7.1	Surface	1.0	0.1	156	28.1	28.1	8.1	8.1	29.8	29.8	96.3	96.3	6.4	1.8	7	85	85	818789	805573	<0.2	0.4	0.4	0.4	
											1.0	0.1	167	28.1	8.1	8.1	29.8	29.8	96.2	96.2	6.4	1.8	6	85	85	818789	805573	<0.2	0.4	0.4	0.4		
											3.6	0.2	143	28.0	8.1	8.1	30.5	30.5	89.5	89.5	5.9	5.8	5	88	88	818789	805573	<0.2	0.4	0.4	0.4		
Middle	3.6	0.2	144	28.0						8.1	8.1	30.5	30.5	89.5	89.5	5.9	5.8	6	88	88	818789	805573	<0.2	0.4	0.4	0.4							
	6.1	0.1	171	28.0						8.0	8.0	30.9	30.9	89.2	89.2	5.9	10.4	4	90	90	818789	805573	<0.2	0.6	0.6	0.6							
	6.1	0.1	172	28.0						8.0	8.0	30.9	30.9	89.2	89.2	5.9	10.4	4	90	90	818789	805573	<0.2	0.6	0.6	0.6							
IM4	Fine	Rough	15:08	8.3						Surface	1.0	0.3	193	28.0	28.0	8.2	8.2	29.8	29.8	96.9	96.8	6.4	1.9	6	85	86	819715	804630	<0.2	0.7	0.7	0.7	
											1.0	0.3	211	28.0	8.2	8.2	29.8	29.8	96.7	96.8	6.4	1.9	6	86	86	819715	804630	<0.2	0.7	0.7	0.7		
											4.2	0.1	172	28.0	8.1	8.1	30.9	30.9	89.7	89.8	5.9	4.3	5	88	88	819715	804630	<0.2	0.6	0.6	0.6		
					Middle	4.2	0.1	178	28.0	8.1	8.1	30.9	30.9	89.8	89.8	5.9	4.2	6	88	88	819715	804630	<0.2	0.7	0.7	0.7							
						7.3	0.1	98	28.0	8.1	8.1	30.9	30.9	89.9	89.9	5.9	9.5	5	90	90	819715	804630	<0.2	0.7	0.7	0.7							
						7.3	0.1	99	28.0	8.1	8.1	30.9	30.9	89.9	89.9	5.9	9.5	6	90	90	819715	804630	<0.2	0.8	0.8	0.8							
					IM5	Fine	Moderate	14:59	7.8	Surface	1.0	0.2	244	28.1	28.1	8.2	8.2	29.9	29.9	94.3	94.2	6.2	2.8	2	85	85	820745	804855	<0.2	0.7	0.8	0.7	
											1.0	0.2	255	28.1	8.2	8.2	29.9	29.9	94.0	94.0	6.2	3.1	4	85	85	820745	804855	<0.2	0.8	0.8	0.8		
											3.9	0.1	254	28.1	8.2	8.2	30.3	30.3	91.7	91.8	6.1	8.3	5	88	88	820745	804855	<0.2	0.6	0.6	0.6		
Middle	3.9	0.1	270	28.1						8.2	8.2	30.3	30.3	91.8	91.8	6.1	8.0	6	88	88	820745	804855	<0.2	0.6	0.6	0.6							
	6.8	0.1	198	28.1						8.2	8.2	30.6	30.6	89.8	89.9	5.9	11.0	8	90	90	820745	804855	<0.2	0.6	0.6	0.6							
	6.8	0.1	198	28.1						8.2	8.2	30.6	30.6	90.0	89.9	5.9	10.8	7	90	90	820745	804855	<0.2	0.7	0.7	0.7							
IM6	Fine	Rough	14:51	7.2						Surface	1.0	0.3	231	28.2	28.2	8.1	8.1	28.2	28.2	94.7	94.7	6.3	1.7	3	85	85	821047	805821	<0.2	0.8	1.0	0.8	
											1.0	0.3	243	28.2	8.1	8.1	28.2	28.2	94.6	94.6	6.3	1.8	2	85	85	821047	805821	<0.2	0.7	0.7	0.7		
											3.6	0.2	242	28.1	8.1	8.1	28.8	28.8	94.2	94.2	6.3	2.0	4	88	88	821047	805821	<0.2	0.7	0.7	0.7		
					Middle	3.6	0.2	254	28.1	8.1	8.1	28.8	28.8	94.2	94.2	6.3	2.0	3	89	89	821047	805821	<0.2	0.7	0.7	0.7							
						6.2	0.1	179	28.0	8.1	8.1	30.0	30.0	92.1	92.1	6.1	3.6	4	90	90	821047	805821	<0.2										



Expansion of Hong Kong International Airport into a Three-Runway System  
 Water Quality Monitoring

Water Quality Monitoring Results on 08 October 20 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)	Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity (NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)											
								Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA										
C1	Fine	Moderate	11:58	8.6	Surface	1.0	0.4	32	27.8	8.0	8.0	30.0	30.0	92.0	91.9	6.1	6.1	2.1	7	85	88	88	88	88	88	815616	804257	<0.2	0.5	<0.2	0.5								
						1.0	0.4	33	27.8	8.0	8.0	30.0	30.0	91.8	91.8	6.1	6.1	2.2	6	86	88	88	88	88	88	88	88	88	88	88	88	88	88						
						4.3	0.4	28	28.1	8.0	8.0	31.3	31.3	89.0	89.0	5.9	5.9	5.6	6	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88				
					Middle	4.3	0.5	28	28.1	8.0	8.0	31.3	31.3	89.0	89.0	5.9	5.9	5.4	7	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89			
						7.6	0.2	22	28.1	8.0	8.0	31.4	31.4	89.1	89.1	5.9	5.9	8.5	9	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90			
						7.6	0.2	24	28.1	8.0	8.0	31.4	31.4	89.2	89.2	5.9	5.9	8.3	8	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91			
					C2	Cloudy	Moderate	12:19	12.0	Surface	1.0	0.2	13	27.7	8.2	8.2	26.9	26.9	89.4	89.5	6.1	6.1	3.5	6	87	87	87	87	87	87	825679	806942	<0.2	0.6	<0.2	0.6			
											1.0	0.2	13	27.7	8.2	8.2	26.9	26.9	89.5	89.5	6.1	6.1	3.5	5	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87
											6.0	0.4	6	27.7	8.3	8.3	27.5	27.5	86.7	86.6	5.9	5.9	3.5	5	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89
Middle	6.0	0.4	6	27.7						8.3	8.3	27.5	27.5	86.4	86.4	5.8	5.8	3.5	4	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88			
	11.0	0.3	322	27.8						8.3	8.3	28.7	28.7	85.7	85.8	5.7	5.7	29.5	4	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91			
	11.0	0.3	323	27.8						8.3	8.3	28.6	28.6	85.9	85.9	5.8	5.8	31.7	4	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91		
Bottom	11.0	0.3	322	27.8						8.3	8.3	28.7	28.7	85.7	85.8	5.7	5.7	29.5	4	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91			
	11.0	0.3	323	27.8						8.3	8.3	28.6	28.6	85.9	85.9	5.8	5.8	31.7	4	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91		
	11.0	0.3	323	27.8						8.3	8.3	28.6	28.6	85.9	85.9	5.8	5.8	31.7	4	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91		
C3	Cloudy	Moderate	10:30	11.3	Surface	1.0	0.4	270	27.3	8.3	8.3	28.1	28.1	87.4	87.3	5.9	5.9	3.5	3	85	85	85	85	85	85	822129	817822	<0.2	0.6	<0.2	0.6								
						1.0	0.4	270	27.3	8.3	8.3	28.1	28.1	87.2	87.2	5.9	5.9	3.5	4	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88					
						5.7	0.3	277	27.9	8.3	8.3	29.6	29.6	83.0	83.0	5.5	5.5	4.1	3	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88				
					Middle	5.7	0.3	301	27.9	8.3	8.3	29.6	29.6	83.0	83.0	5.5	5.5	4.3	4	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87			
						10.3	0.3	292	28.0	8.3	8.3	30.4	30.4	82.9	82.9	5.5	5.5	5.2	6	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90			
						10.3	0.3	295	28.0	8.3	8.3	30.4	30.4	82.9	82.9	5.5	5.5	5.2	7	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89			
					Bottom	10.3	0.3	292	28.0	8.3	8.3	30.4	30.4	82.9	82.9	5.5	5.5	5.2	6	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90			
						10.3	0.3	295	28.0	8.3	8.3	30.4	30.4	82.9	82.9	5.5	5.5	5.2	7	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89			
						10.3	0.3	295	28.0	8.3	8.3	30.4	30.4	82.9	82.9	5.5	5.5	5.2	7	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89			
IM1	Fine	Moderate	12:18	4.7	Surface	1.0	0.1	312	28.2	8.1	8.1	30.8	30.8	91.2	91.2	6.0	6.0	2.8	4	86	86	86	86	86	86	817962	807121	<0.2	0.7	<0.2	0.7								
						1.0	0.1	331	28.2	8.1	8.1	30.8	30.8	91.1	91.1	6.0	6.0	2.8	6	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86					
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
						3.7	0.1	346	28.1	8.1	8.1	30.9	30.9	87.8	87.8	5.8	5.8	8.2	8	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89				
						3.7	0.1	318	28.1	8.1	8.1	30.9	30.9	87.8	87.8	5.8	5.8	7.8	8	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89				
					Bottom	3.7	0.1	346	28.1	8.1	8.1	30.9	30.9	87.8	87.8	5.8	5.8	8.2	8	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89				
						3.7	0.1	318	28.1	8.1	8.1	30.9	30.9	87.8	87.8	5.8	5.8	7.8	8	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89			
						3.7	0.1	318	28.1	8.1	8.1	30.9	30.9	87.8	87.8	5.8	5.8	7.8	8	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89			
IM2	Fine	Rough	12:27	7.0	Surface	1.0	0.3	10	27.9	8.1	8.1	29.6	29.6	94.1	94.1	6.3	6.3	1.6	6	85	85	85	85	85	85	818158	806184	<0.2	0.6	<0.2	0.6								
						1.0	0.3	10	27.9	8.1	8.1	29.6	29.6	94.1	94.1	6.3	6.3	1.6	5	84	84	84	84	84	84	84	84	84	84	84	84	84	84						
						3.5	0.3	332	27.8	8.1	8.1	29.8	29.8	94.0	94.0	6.3	6.3	1.5	6	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87					
					Middle	3.5	0.3	358	27.8	8.1	8.1	29.8	29.8	93.9	93.9	6.3	6.3	1.5	7	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87				
						6.0	0.2	340	27.9	8.1	8.1	30.2	30.2	92.8	92.8	6.2	6.2	5.5	9	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89				
						6.0	0.2	313	27.9	8.1	8.1	30.2	30.2	92.8	92.8	6.2	6.2	5.7	8	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88				
					Bottom	6.0	0.2	340	27.9	8.1	8.1	30.2	30.2	92.8	92.8	6.2	6.2	5.5	9	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89				
						6.0	0.2	313	27.9	8.1	8.1	30.2	30.2	92.8	92.8	6.2	6.2	5.7	8	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88				
						6.0	0.2	313	27.9	8.1	8.1	30.2	30.2	92.8	92.8	6.2	6.2	5.7	8	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88				
IM3	Fine	Rough	12:35	7.2	Surface	1.0	0.3	336	27.9	8.2	8.2	29.6	29.6	92.0	91.9	6.1	6.1	3.3	4	84	84	84	84	84	84	818785	805												

Expansion of Hong Kong International Airport into a Three-Runway System  
Water Quality Monitoring

Water Quality Monitoring Results on 08 October 20 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)	Current		Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity (NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)					
						Speed (m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA		
						Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA	Value	DA
IM9	Cloudy	Moderate	11:46	7.1	Surface	1.0	0.3	213	27.3	27.3	8.3	8.3	27.3	27.3	88.5	88.5	6.0	6.0	6.7	6.7	9	9	86	86	89	822072	808806	<0.2	<0.2	0.7	0.7		
						1.0	0.3	229	27.3	27.3	8.3	8.3	27.3	27.3	88.5	88.5	6.0	6.0	6.7	6.7	8	8	87	87	88	88	89	89	<0.2	<0.2	0.6	0.6	
						3.6	0.3	224	27.3	27.3	8.3	8.3	27.3	27.3	88.5	88.5	6.0	6.0	8.1	8.1	9	9	88	88	89	89	89	89	<0.2	<0.2	0.7	0.7	
					Middle	3.6	0.3	237	27.3	27.3	8.3	8.3	27.3	27.3	88.6	88.6	6.0	6.0	8.2	8.2	8	8	89	89	90	90	91	91	<0.2	<0.2	0.6	0.6	
						6.1	0.1	212	27.3	27.3	8.3	8.2	27.3	27.3	89.9	89.9	6.1	6.1	8.9	8.9	10	10	90	90	91	91	91	91	<0.2	<0.2	0.6	0.6	
						6.1	0.2	223	27.3	27.3	8.2	8.2	27.3	27.3	90.3	90.3	6.1	6.1	8.9	8.9	9	9	89	89	90	90	91	91	<0.2	<0.2	0.6	0.6	
					Bottom	6.1	0.1	212	27.3	27.3	8.3	8.2	27.3	27.3	89.9	89.9	6.1	6.1	8.9	8.9	10	10	90	90	91	91	91	91	<0.2	<0.2	0.6	0.6	
						6.1	0.2	223	27.3	27.3	8.2	8.2	27.3	27.3	90.3	90.3	6.1	6.1	8.9	8.9	9	9	89	89	90	90	91	91	<0.2	<0.2	0.6	0.6	
						6.1	0.2	223	27.3	27.3	8.2	8.2	27.3	27.3	90.3	90.3	6.1	6.1	8.9	8.9	9	9	89	89	90	90	91	91	<0.2	<0.2	0.6	0.6	
IM10	Cloudy	Moderate	11:39	7.0	Surface	1.0	0.5	323	27.4	27.4	8.2	8.2	27.5	27.5	89.0	89.0	6.0	6.0	5.1	5.1	9	9	86	86	89	822371	809773	<0.2	<0.2	0.7	0.7		
						1.0	0.5	332	27.4	27.4	8.2	8.2	27.5	27.5	89.0	89.0	6.0	6.0	5.2	5.2	8	8	87	87	88	88	89	89	<0.2	<0.2	0.6	0.6	
						3.5	0.4	325	27.4	27.4	8.2	8.2	27.7	27.7	88.5	88.5	6.0	6.0	7.3	7.3	6	6	89	89	90	90	91	91	<0.2	<0.2	0.6	0.6	
					Middle	3.5	0.4	345	27.4	27.4	8.2	8.2	27.7	27.7	88.5	88.5	6.0	6.0	7.6	7.6	6	6	88	88	89	89	90	90	<0.2	<0.2	0.6	0.6	
						6.0	0.4	327	27.4	27.4	8.2	8.2	27.7	27.7	90.0	90.0	6.1	6.1	8.4	8.4	6	6	91	91	92	92	92	92	<0.2	<0.2	0.7	0.7	
						6.0	0.4	345	27.4	27.4	8.2	8.2	27.7	27.7	90.4	90.4	6.1	6.1	8.4	8.4	5	5	92	92	92	92	92	92	<0.2	<0.2	0.6	0.6	
					Bottom	6.0	0.4	327	27.4	27.4	8.2	8.2	27.7	27.7	90.0	90.0	6.1	6.1	8.4	8.4	6	6	91	91	92	92	92	92	<0.2	<0.2	0.7	0.7	
						6.0	0.4	345	27.4	27.4	8.2	8.2	27.7	27.7	90.4	90.4	6.1	6.1	8.4	8.4	5	5	92	92	92	92	92	92	<0.2	<0.2	0.6	0.6	
						6.0	0.4	345	27.4	27.4	8.2	8.2	27.7	27.7	90.4	90.4	6.1	6.1	8.4	8.4	5	5	92	92	92	92	92	92	<0.2	<0.2	0.6	0.6	
IM11	Cloudy	Moderate	11:29	7.9	Surface	1.0	0.4	314	27.5	27.5	8.2	8.2	27.8	27.8	86.9	86.9	5.9	5.9	7.3	7.3	9	9	85	85	88	822034	811478	<0.2	<0.2	0.6	0.6		
						1.0	0.4	332	27.5	27.5	8.2	8.2	27.8	27.8	86.8	86.8	5.9	5.9	7.3	7.3	8	8	86	86	87	87	88	88	<0.2	<0.2	0.6	0.6	
						4.0	0.4	319	27.5	27.5	8.2	8.2	27.8	27.8	86.0	86.0	5.8	5.8	7.1	7.1	7	7	88	88	89	89	90	90	<0.2	<0.2	0.6	0.6	
					Middle	4.0	0.4	324	27.5	27.5	8.2	8.2	27.9	27.9	85.9	85.9	5.8	5.8	7.3	7.3	8	8	88	88	89	89	90	90	<0.2	<0.2	0.6	0.6	
						6.9	0.3	307	27.7	27.7	8.2	8.2	28.5	28.5	84.9	84.9	5.7	5.7	9.9	9.9	6	6	91	91	92	92	92	92	<0.2	<0.2	0.7	0.7	
						6.9	0.3	321	27.7	27.7	8.2	8.2	28.5	28.5	85.1	85.1	5.7	5.7	10.1	10.1	7	7	90	90	91	91	92	92	<0.2	<0.2	0.7	0.7	
					Bottom	6.9	0.3	307	27.7	27.7	8.2	8.2	28.5	28.5	84.9	84.9	5.7	5.7	9.9	9.9	6	6	91	91	92	92	92	92	<0.2	<0.2	0.7	0.7	
						6.9	0.3	321	27.7	27.7	8.2	8.2	28.5	28.5	85.1	85.1	5.7	5.7	10.1	10.1	7	7	90	90	91	91	92	92	<0.2	<0.2	0.7	0.7	
						6.9	0.3	321	27.7	27.7	8.2	8.2	28.5	28.5	85.1	85.1	5.7	5.7	10.1	10.1	7	7	90	90	91	91	92	92	<0.2	<0.2	0.7	0.7	
IM12	Cloudy	Moderate	11:22	8.4	Surface	1.0	0.5	293	27.5	27.5	8.2	8.2	28.0	28.0	85.5	85.5	5.8	5.8	9.0	9.0	7	7	85	85	88	821466	812030	<0.2	<0.2	0.6	0.6		
						1.0	0.5	295	27.5	27.5	8.2	8.2	28.0	28.0	85.5	85.5	5.8	5.8	9.1	9.1	7	7	86	86	87	87	88	88	<0.2	<0.2	0.7	0.7	
						4.2	0.4	295	27.6	27.6	8.2	8.2	28.2	28.2	84.6	84.6	5.7	5.7	10.5	10.5	9	9	86	86	87	87	88	88	<0.2	<0.2	0.6	0.6	
					Middle	4.2	0.4	311	27.6	27.6	8.2	8.2	28.2	28.2	84.5	84.5	5.7	5.7	10.7	10.7	8	8	89	89	90	90	91	91	<0.2	<0.2	0.6	0.6	
						7.4	0.3	280	27.7	27.7	8.2	8.2	28.6	28.6	84.9	84.9	5.7	5.7	12.8	12.8	8	8	90	90	91	91	92	92	<0.2	<0.2	0.7	0.7	
						7.4	0.3	301	27.7	27.7	8.2	8.2	28.6	28.6	85.0	85.0	5.7	5.7	12.5	12.5	9	9	90	90	91	91	92	92	<0.2	<0.2	0.7	0.7	
					Bottom	7.4	0.3	280	27.7	27.7	8.2	8.2	28.6	28.6	84.9	84.9	5.7	5.7	12.8	12.8	8	8	90	90	91	91	92	92	<0.2	<0.2	0.7	0.7	
						7.4	0.3	301	27.7	27.7	8.2	8.2	28.6	28.6	85.0	85.0	5.7	5.7	12.5	12.5	9	9	90	90	91	91	92	92	<0.2	<0.2	0.7	0.7	
						7.4	0.3	301	27.7	27.7	8.2	8.2	28.6	28.6	85.0	85.0	5.7	5.7	12.5	12.5	9	9	90	90	91	91	92	92	<0.2	<0.2	0.7	0.7	
SR1A	Cloudy	Calm	11:02	4.2	Surface	1.0	-	-	27.4	27.4	8.2	8.2	27.1	27.1	82.9	83.0	5.6	5.6	5.4	5.4	7	7	-	-	-	819975	812660	-	-	-	-		
						1.0	-	-	27.4	27.4	8.2	8.2	27.1	27.1	83.0	83.0	5.6	5.6	5.4	5.4	7	7	-	-	-	-	-	-	-	-	-	-	
						2.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					Middle	2.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
						3.2	-	-	27.4	27.4	8.2	8.2	27.1	27.1	85.1	85.2	5.8	5.8	5.4	5.4	7	7	-	-	-	-	-	-	-	-	-	-	-
						3.2	-	-	27.4	27.4	8.2	8.2	27.1	27.1	85.3	85.3	5.8	5.8	5.4	5.4	6	6	-	-	-	-	-	-	-	-	-	-	-
					Bottom	3.2	-	-	27.4	27.4	8.2	8.2	27.1	27.1	85.1	85.2	5.8	5.8	5.4	5.4	7	7	-	-	-	-	-	-	-	-	-	-	-
						3.2	-	-	27.4	27.4	8.2	8.2	27.1	27.1	85.3	85.3	5.8	5.8	5.4	5.4	6	6	-	-	-	-	-	-	-	-	-	-	-
						3.2	-	-	27.4	27.4	8.2	8.2	27.1	27.1	85.3	85.3	5.8	5.8	5.4	5.4	6	6	-	-	-	-	-	-	-	-	-	-	-
SR2	Cloudy	Moderate	10:50	4.6	Surface	1.0	0.1	133	27.7	27.7	8.3	8.3	28.5	28.5	84.6	84.6	5.7	5.7	6.6	6.6	8	8	87	87	88	821440	814184	<0.2	<0.2	0.6	0.6		
						1.0	0.2	136	27.7	27.7	8.3	8.3	28.5	28.5	84.6	84.6	5.7	5.7	6.6	6.6	7	7	87	87	88	88	89	89	<0.2	<0.2	0.6	0.6	
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
						3.6	0.2	138	27.7	27.7	8.3	8.4	28.6	28.6	84.5	84.5	5.7	5.7	9.7	9.7	10	10	89	89	90	90	91	91	<0.2	<0.2	0.6	0.6	
						3.6	0.2	143	27.7	27.7	8.4	8.4	28.6	28.6	84.5	84.5	5.7	5.7	9.8	9.8	9	9	89	89	90	90	91	91	<0.2	<0.2	0.6	0.6	
					Bottom	3.6	0.2	138	27.7	27.7	8.3	8.4	28.6	28.6	84.5	84.5	5.7	5.7															



Expansion of Hong Kong International Airport into a Three-Runway System

Water Quality Monitoring

Water Quality Monitoring Results on 10 October 20 during Mid-Ebb Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity (NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)							
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA	Value	DA	Value	DA
C1	Cloudy	Moderate	05:44	8.5	Surface	1.0	0.2	207	27.0	8.3	8.3	31.7	31.7	93.6	93.6	6.2	6.2	6.2	6.2	8	8	86	86	87	87	815607	804257	<0.2	0.3	0.3						
						1.0	0.2	225	27.0	8.3	8.3	31.7	31.7	93.6	93.6	6.2	6.2	6.2	6.2	8	8	85	85	86	86	87	87	<0.2	0.4							
						4.3	0.2	207	27.1	8.3	8.3	31.7	31.7	93.6	93.7	6.2	6.2	6.4	6.4	9	9	87	87	88	88	87	87	<0.2	0.4							
					4.3	0.2	216	27.0	8.3	8.3	31.7	31.7	93.7	93.7	6.2	6.2	6.5	6.5	8	8	87	87	89	89	87	87	<0.2	0.3								
					7.5	0.3	204	27.0	8.3	8.3	31.7	31.7	94.2	94.2	6.3	6.3	6.8	6.8	10	10	89	89	89	89	87	87	<0.2	0.3								
					7.5	0.3	221	27.0	8.3	8.3	31.7	31.7	94.2	94.2	6.3	6.3	6.8	6.8	9	9	89	89	89	89	87	87	<0.2	0.3								
C2	Sunny	Moderate	07:10	10.9	Surface	1.0	0.3	64	27.7	8.1	8.1	31.3	31.3	93.4	93.5	6.2	6.2	6.7	6.7	5	5	84	84	89	89	825700	806948	<0.2	0.4	0.5						
						1.0	0.3	64	27.7	8.1	8.1	31.3	31.3	93.5	93.5	6.2	6.2	6.7	6.7	6	6	85	85	89	89	87	87	<0.2	0.5							
						5.5	0.3	117	27.6	8.2	8.2	31.7	31.7	93.6	93.6	6.2	6.2	9.1	9.1	7	7	89	89	89	89	87	87	<0.2	0.5							
					5.5	0.3	125	27.6	8.2	8.2	31.7	31.7	93.5	93.6	6.2	6.2	9.2	9.2	7	7	89	89	93	93	87	87	<0.2	0.5								
					9.9	0.2	133	28.2	8.1	8.1	33.0	33.0	87.8	87.8	5.7	5.7	10.2	10.2	8	8	93	93	8	8	89	89	<0.2	0.6								
					9.9	0.3	140	28.2	8.1	8.1	33.0	33.0	87.8	87.8	5.7	5.7	10.2	10.2	7	7	93	93	8	8	89	89	<0.2	0.5								
C3	Fine	Moderate	04:51	12.3	Surface	1.0	0.5	69	27.8	8.2	8.2	32.8	32.8	90.3	90.3	5.9	5.9	6.2	6.2	8	8	85	85	89	89	822119	817825	<0.2	0.4	0.5						
						1.0	0.5	75	27.8	8.2	8.2	32.8	32.8	90.3	90.3	5.9	5.9	6.2	6.2	8	8	85	85	89	89	87	87	<0.2	0.4							
						6.2	0.5	89	28.2	8.2	8.2	33.5	33.5	87.8	87.8	5.7	5.7	7.0	7.0	8	8	89	89	90	90	87	87	<0.2	0.6							
					6.2	0.5	92	28.2	8.2	8.2	33.5	33.5	87.7	87.8	5.7	5.7	7.0	7.0	8	8	90	90	8	8	89	89	<0.2	0.6								
					11.3	0.4	100	28.3	8.2	8.2	33.5	33.5	87.9	87.9	5.7	5.7	7.1	7.1	8	8	94	94	8	8	89	89	<0.2	0.6								
					11.3	0.4	105	28.3	8.2	8.2	33.5	33.5	87.9	87.9	5.7	5.7	7.1	7.1	9	9	93	93	8	8	89	89	<0.2	0.6								
IM1	Cloudy	Moderate	06:07	5.6	Surface	1.0	0.2	192	27.2	8.3	8.3	31.5	31.5	91.3	91.3	6.1	6.1	6.1	6.1	10	10	87	87	88	88	817964	807151	<0.2	0.3	0.4						
						1.0	0.2	202	27.2	8.3	8.3	31.5	31.5	91.3	91.3	6.1	6.1	6.1	6.1	11	11	87	87	88	88	87	87	<0.2	0.3							
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-		
					4.6	0.1	161	27.2	8.3	8.3	31.6	31.6	91.4	91.5	6.1	6.1	9.8	9.8	7	7	89	89	8	8	89	89	<0.2	0.4								
					4.6	0.1	164	27.2	8.3	8.3	31.6	31.6	91.5	91.5	6.1	6.1	9.4	9.4	8	8	89	89	8	8	89	89	<0.2	0.4								
					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-		
IM2	Cloudy	Moderate	06:15	7.5	Surface	1.0	0.2	194	27.0	8.3	8.3	31.1	31.1	94.6	94.6	6.3	6.3	5.2	5.2	7	7	87	87	88	88	818145	806160	<0.2	0.3	0.4						
						1.0	0.2	206	27.0	8.3	8.3	31.1	31.1	94.5	94.6	6.3	6.3	5.3	5.3	6	6	86	86	87	87	88	88	<0.2	0.3							
						3.8	0.2	171	27.1	8.3	8.3	31.5	31.5	93.5	93.5	6.2	6.2	7.6	7.6	8	8	87	87	8	8	87	87	<0.2	0.4							
					3.8	0.2	180	27.1	8.3	8.3	31.5	31.5	93.5	93.5	6.2	6.2	7.8	7.8	9	9	87	87	8	8	87	87	<0.2	0.4								
					6.5	0.2	134	27.1	8.3	8.3	31.6	31.6	93.2	93.3	6.2	6.2	8.6	8.6	9	9	89	89	8	8	89	89	<0.2	0.4								
					6.5	0.2	147	27.1	8.3	8.3	31.6	31.6	93.3	93.3	6.2	6.2	8.4	8.4	8	8	89	89	8	8	89	89	<0.2	0.4								
IM3	Cloudy	Moderate	06:22	7.7	Surface	1.0	0.3	150	26.9	8.3	8.3	31.1	31.1	94.0	94.0	6.3	6.3	6.4	6.4	8	8	86	86	87	87	818797	805586	<0.2	0.4	0.4						
						1.0	0.3	151	26.9	8.3	8.3	31.1	31.1	94.0	94.0	6.3	6.3	6.7	6.7	9	9	85	85	87	87	88	88	<0.2	0.3							
						3.9	0.2	126	27.0	8.3	8.3	31.3	31.3	93.6	93.6	6.3	6.3	7.1	7.1	10	10	87	87	8	8	87	87	<0.2	0.3							
					3.9	0.2	135	27.0	8.3	8.3	31.3	31.3	93.6	93.6	6.3	6.3	6.4	6.4	9	9	87	87	8	8	87	87	<0.2	0.3								
					6.7	0.2	138	27.0	8.3	8.3	31.4	31.4	93.6	93.6	6.3	6.3	10.1	10.1	10	10	89	89	8	8	89	89	<0.2	0.4								
					6.7	0.2	150	27.0	8.3	8.3	31.4	31.4	93.6	93.6	6.3	6.3	10.8	10.8	11	11	90	90	8	8	89	89	<0.2	0.3								
IM4	Cloudy	Moderate	06:33	8.5	Surface	1.0	0.7	191	26.8	8.3	8.3	31.1	31.1	94.5	94.5	6.4	6.4	5.3	5.3	8	8	85	85	87	87	819729	804602	<0.2	0.4	0.4						
						1.0	0.7	198	26.8	8.3	8.3	31.1	31.1	94.5	94.5	6.3	6.3	5.4	5.4	9	9	85	85	87	87	88	88	<0.2	0.4							
						4.3	0.6	193	26.9	8.3	8.3	31.3	31.3	94.4	94.4	6.3	6.3	6.4	6.4	8	8	87	87	8	8	87	87	<0.2	0.4							
					4.3	0.6	207	26.9	8.3	8.3	31.3	31.3	94.4	94.4	6.3	6.3	6.6	6.6	9	9	86	86	8	8	87	87	<0.2	0.4								
					7.5	0.5	182	26.9	8.3	8.3	31.3	31.3	94.6	94.6	6.3	6.3	8.6	8.6	9	9	90	90	8	8	89	89	<0.2	0.4								
					7.5	0.6	189	26.9	8.3	8.3	31.3	31.3	94.6	94.6	6.3	6.3	8.8	8.8	10	10	89	89	8	8	89	89	<0.2	0.4								
IM5	Cloudy	Moderate	06:42	8.0	Surface	1.0	0.5	193	26.9	8.3	8.3	31.4	31.4	94.8	94.8	6.4	6.4	6.2	6.2	9	9	85	85	87	87	820757	804862	<0.2	0.3	0.3						
						1.0	0.5	205	26.9	8.3	8.3	31.4	31.4	94.8	94.8	6.4	6.4	6.3	6.3	8	8	85	85	87	87	88	88	<0.2	0.4							
						4.0	0.5	195	26.8	8.3	8.3	31.4	31.4	94.8	94.8	6.4	6.4	6.8	6.8	7	7	87	87	8	8	87	87	<0.2	0.4							
					4.0	0.5	199	26.8	8.3	8.3	31.4	31.4	94.8	94.8	6.4	6.4	6.8	6.8	6	6	86	86	8	8	87	87	<0.2	0.3								
					7.0	0.5	205	26.8	8.3	8.3	31.4	31.4	94.9	94.9	6.4	6.4	6.9	6.9	6	6	89	89	8	8	89	89	<0.2	0.3								
					7.0	0.5	216	26.8	8.3	8.3	31.4	31.4	94.9	94.9	6.4	6.4	6.8	6.8	6	6	89	89	8	8	89	89	<0.2	0.3								
IM6	Cloudy	Moderate	06:51	7.5	Surface	1.0	0.4	232	26.8	8.3	8.3	31.0	31.1	95.1	95.1	6.4	6.4	5.4	5.4	6	6	86	86	88	88	821055	805847	<0.2	0.5	0.4						
						1.0	0.4	249	26.8	8.3	8.3</																									

Expansion of Hong Kong International Airport into a Three-Runway System

Water Quality Monitoring

Water Quality Monitoring Results on 10 October 20 during Mid-Ebb Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity (NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)					
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA	Value	DA
IM9	Sunny	Moderate	06:29	8.7	Surface	1.0	0.3	106	27.5	8.2	8.2	31.4	31.4	96.9	96.9	6.4	6.4	6.8	3	85	90	822102	808828	<0.2	0.6	0.6								
						1.0	0.3	106	27.5	8.2	8.2	31.4	31.4	96.9	96.9	6.4	6.4	6.8	4	86	89	<0.2	0.6											
						4.4	0.3	91	27.5	8.2	8.2	31.9	31.9	96.8	96.8	6.4	7.4	7.4	5	89	90	<0.2	0.6											
					4.4	0.3	91	27.5	8.2	8.2	32.0	31.9	96.8	96.8	6.4	7.4	7.4	6	90	94	<0.2	0.5												
					7.7	0.3	61	27.6	8.2	8.2	33.0	33.0	96.1	96.1	6.3	6.3	9.1	6	94	93	<0.2	0.5												
					7.7	0.3	65	27.5	8.2	8.2	33.0	33.0	96.1	96.1	6.3	6.3	9.1	6	93	85	<0.2	0.5												
IM10	Sunny	Moderate	06:20	8.4	Surface	1.0	0.5	109	27.5	8.2	8.2	31.5	31.5	96.0	96.0	6.4	6.4	6.9	8	85	89	822362	809797	<0.2	0.6	0.6								
						1.0	0.5	117	27.5	8.2	8.2	31.5	31.5	96.2	96.1	6.4	6.4	6.9	8	85	90	<0.2	0.6											
						4.2	0.5	97	27.6	8.2	8.2	31.9	31.9	96.9	96.9	6.4	7.4	7.4	6	90	89	<0.2	0.6											
					4.2	0.5	98	27.6	8.2	8.2	31.9	31.9	97.0	97.0	6.4	7.5	7.5	7	89	93	<0.2	0.6												
					7.4	0.3	82	27.6	8.2	8.2	32.9	32.9	95.9	95.9	6.3	9.5	9.5	7	93	93	<0.2	0.6												
					7.4	0.4	85	27.6	8.2	8.2	32.9	32.9	95.8	95.9	6.3	9.5	9.5	6	93	85	<0.2	0.6												
IM11	Sunny	Moderate	06:05	7.8	Surface	1.0	0.5	113	27.7	8.1	8.1	31.8	31.8	93.4	93.4	6.2	7.3	7.3	11	85	89	822058	811476	<0.2	0.6	0.6								
						1.0	0.5	119	27.7	8.1	8.1	31.8	31.8	93.3	93.4	6.1	7.3	7.3	10	85	89	<0.2	0.6											
						3.9	0.4	106	28.0	8.1	8.1	32.4	32.4	88.8	88.8	5.8	8.4	8.4	9	89	90	<0.2	0.6											
					3.9	0.4	112	28.0	8.1	8.1	32.4	32.4	88.8	88.8	5.8	8.4	8.4	8	90	93	<0.2	0.6												
					6.8	0.2	113	28.2	8.1	8.1	32.7	32.7	86.8	86.8	5.7	9.5	9.5	7	93	94	<0.2	0.6												
					6.8	0.3	114	28.2	8.1	8.1	32.7	32.7	86.8	86.8	5.7	9.5	9.5	7	94	85	<0.2	0.5												
IM12	Sunny	Moderate	05:56	8.2	Surface	1.0	0.3	92	27.9	8.1	8.1	32.0	32.0	86.7	86.6	5.7	8.0	8.0	12	85	89	821440	812065	<0.2	0.6	0.6								
						1.0	0.4	98	27.9	8.1	8.1	32.0	32.0	86.5	86.5	5.7	8.0	8.0	12	89	89	<0.2	0.5											
						4.1	0.4	86	28.3	8.1	8.1	32.4	32.4	84.2	84.2	5.5	8.3	8.3	10	89	94	<0.2	0.5											
					4.1	0.4	94	28.3	8.1	8.1	32.4	32.4	84.0	84.0	5.5	8.3	8.3	10	89	94	<0.2	0.5												
					7.2	0.2	89	28.3	8.1	8.1	32.8	32.8	85.2	85.3	5.5	9.5	9.5	9	94	93	<0.2	0.6												
					7.2	0.2	91	28.3	8.1	8.1	32.8	32.8	85.3	85.3	5.5	9.5	9.5	10	93	85	<0.2	0.5												
SR1A	Fine	Moderate	05:31	5.5	Surface	1.0	-	-	27.8	8.1	8.1	31.5	31.5	84.6	84.7	5.6	7.6	7.6	6	-	-	819982	812654	-	-	-								
						1.0	-	-	27.8	8.1	8.1	31.5	31.5	84.7	84.7	5.6	7.6	7.6	5	-	-	-	-											
						2.8	-	-	-	-	-	-	-	-	-	-	-	5.6	-	-	8.1	-	-	-	-									
					2.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-									
					4.5	-	-	28.3	8.1	8.1	32.7	32.7	84.1	84.1	5.5	8.5	8.5	7	-	-	-	-	-	-	-									
					4.5	-	-	28.3	8.1	8.1	32.7	32.7	84.1	84.1	5.5	8.5	8.5	8	-	-	-	-	-	-	-		-							
SR2	Fine	Moderate	05:18	5.3	Surface	1.0	0.2	87	27.7	8.1	8.1	32.1	32.1	87.4	87.4	5.8	7.2	7.2	6	85	87	821450	814175	<0.2	0.5	0.5								
						1.0	0.2	89	27.7	8.1	8.1	32.1	32.1	87.3	87.3	5.7	7.2	7.2	7	85	90	<0.2	0.5											
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-							
					4.3	0.1	95	28.3	8.1	8.1	33.1	33.1	85.7	85.7	5.6	8.0	8.0	8	90	89	<0.2	0.5												
					4.3	0.1	98	28.3	8.1	8.1	33.1	33.1	85.7	85.7	5.6	8.0	8.0	7	89	85	<0.2	0.5												
					1.0	0.3	158	27.4	8.2	8.2	31.1	31.0	97.1	97.1	6.5	6.2	6.2	6	-	-	-	-												
SR3	Sunny	Moderate	06:44	8.6	Surface	1.0	0.3	162	27.4	8.2	8.2	31.0	31.0	97.1	97.1	6.5	6.2	6.2	6	-	-	822153	807554	-	-	-								
						4.3	0.1	161	27.8	8.2	8.2	31.9	31.9	96.6	96.7	6.4	7.4	7.4	7	-	-	-	-											
						4.3	0.1	170	27.8	8.2	8.2	31.9	31.9	96.7	96.7	6.4	7.4	7.4	6	-	-	-	-											
					7.6	0.1	25	27.5	8.2	8.2	32.8	32.8	96.4	96.5	6.3	8.0	8.0	5	-	-	-	-												
					7.6	0.1	25	27.5	8.2	8.2	32.8	32.8	96.6	96.6	6.4	8.1	8.1	6	-	-	-	-												
					1.0	2.9	62	26.8	8.3	8.3	30.9	31.0	92.1	92.1	6.2	5.8	5.8	6	-	-	-	-												
SR4A	Cloudy	Moderate	05:22	8.1	Surface	1.0	3.0	63	26.9	8.3	8.3	31.0	31.0	92.0	92.1	6.2	5.9	5.9	7	-	-	817194	807831	-	-	-								
						1.0	3.0	63	26.9	8.3	8.3	31.0	31.0	92.0	92.1	6.2	5.9	5.9	7	-	-	-	-											
						4.1	3.0	63	27.2	8.3	8.3	31.6	31.6	91.8	91.8	6.1	7.0	7.0	8	-	-	-	-											
					4.1	3.0	68	27.2	8.3	8.3	31.6	31.6	91.8	91.8	6.1	6.9	6.9	10	-	-	-	-												
					7.1	3.0	62	27.2	8.3	8.3	31.7	31.7	91.6	91.6	6.1	7.0	7.0	10	-	-	-	-												
					7.1	3.1	62	27.2	8.3	8.3	31.7	31.7	91.6	91.6	6.1	7.1	7.1	11	-	-	-	-												
SR5A	Cloudy	Moderate	05:03	4.3	Surface	1.0	0.0	227	27.0	8.3	8.3	28.5	28.4	93.9	93.8	6.4	6.6	6.6	8	-	-	816581	810719	-	-	-								
						1.0	0.0	230	27.0	8.3	8.3	28.4	28.4	93.6	93.8	6.4	6.5	6.5	8	-	-	-	-											
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-									
					3.3	0.1	333	27.3	8.3	8.3	30.1	30.1	92.3	92.4	6.2	7.9	7.9	6	-	-	-	-												
					3.3	0.1	333	27.3	8.3	8.3	30.2	30.1	92.4	92.4	6.2	8.1	8.1	5	-	-	-	-												
					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-											
SR6A	Cloudy	Moderate	04:33	4.5	Surface	1.0	0.1	59	27.7	8.2	8.2	29.3	29.4	85.4	85.4	5.7	7.5	7.5	4	-	-	817979	814717	-	-	-								
						1.0	0.1	61	27.7	8.2	8.2	29.3	29.4	85.4	85.4	5.7	7.6	7.6	4	-	-	-	-											
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-										
					3.5	0.0	90	27.7	8.2	8.2	29.8	29.9	84.8	84.8	5.7	6.9	6.9	7	-	-	-	-												
					3.5	0.0	94	27.7	8.2	8.2	29.9	29.9	84.7	84.7	5.6	6.1	6.1	7	-	-	-	-												
					1.0	0.6	67	28.1	8.1	8.1	33.4	33.4	89.2	89.3	5.8	8.4	8.4	4	-	-	-	-												
SR7	Fine	Moderate	04:16	14.8	Surface	1.0	0.6	72	28.1	8.1	8.1	33.4	33.4	89.3	89.3	5.8	8.4	8.4	5	-	-	823623	823756	-	-	-								
						7.4	0.3	39	28.2	8.1	8.1	33.5	33.5	87.7	87.7	5.7	6.9	6.9	5	-	-	-	-											
						7.4	0.3	39	28.2	8.1	8.1	33.5	33.5	87.7	87.7	5.7	6.9	6.9	5	-	-	-	-											
					13.8	0.4	11	28.3	8.1	8.1	33.6	33.6	87.4	87.4	5.6	7.1	7.1	6	-	-	-	-												
					13.8	0.4	11	28.3	8.1	8.1	33.6	33.6																						

Expansion of Hong Kong International Airport into a Three-Runway System  
 Water Quality Monitoring  
 Water Quality Monitoring Results on 10 October 20 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity (NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)						
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA	Value	DA	
																																			Value
C1	Cloudy	Moderate	18:05	8.1	Surface	1.0	0.3	58	26.9	26.9	7.9	7.9	31.1	31.1	98.8	98.8	6.6	6.6	5.1	5.1	5	5	87	88	88	815642	804234	<0.2	0.4	0.4					
						1.0	0.3	62	26.9	7.9	7.9	31.1	31.1	98.7	98.7	6.6	6.6	5.2	5.2	4	4	86	87	<0.2				0.3							
						4.1	0.1	84	26.9	7.9	7.9	31.2	31.2	98.2	98.3	6.6	6.6	5.7	5.7	4	4	87	88	<0.2				0.4							
					4.1	0.1	91	26.9	7.9	7.9	31.2	31.2	98.4	98.3	6.6	6.6	5.7	5.7	5	5	88	89	<0.2	0.4											
					7.1	0.1	3	26.8	26.8	7.9	7.9	31.4	31.4	95.4	95.5	6.4	6.4	7.8	7.8	4	4	90	91	<0.2				0.4							
					7.1	0.1	3	26.8	26.8	7.9	7.9	31.4	31.4	95.5	95.5	6.4	6.4	8.2	8.2	3	3	89	90	<0.2				0.4							
C2	Sunny	Moderate	16:53	11.5	Surface	1.0	0.4	189	27.7	27.7	8.1	8.1	31.3	31.3	93.3	93.3	6.2	6.2	6.6	6.6	4	4	86	87	91	825664	806949	<0.2	0.6	0.6					
						1.0	0.5	191	27.7	8.1	8.1	31.3	31.3	93.3	93.3	6.2	6.2	6.6	6.6	4	4	87	88	<0.2				0.5							
						5.8	0.2	181	27.7	8.2	8.2	31.9	31.9	92.2	92.3	6.1	6.1	8.7	8.7	5	5	90	91	<0.2				0.6							
					5.8	0.2	192	27.7	8.2	8.2	31.9	31.9	92.3	92.3	6.1	6.1	8.8	8.8	5	5	91	92	<0.2	0.5											
					10.5	0.3	5	28.2	28.2	8.1	8.1	33.0	33.0	87.7	87.7	5.7	5.7	10.5	10.5	5	5	94	95	<0.2				0.5							
					10.5	0.4	5	28.2	28.2	8.1	8.1	33.0	33.0	87.9	87.9	5.7	5.7	10.5	10.5	5	5	95	96	<0.2				0.6							
C3	Fine	Moderate	19:21	10.8	Surface	1.0	0.0	92	28.1	28.1	8.2	8.2	32.2	32.2	97.0	97.0	6.3	6.3	6.1	6.1	6	6	86	87	90	822093	817819	<0.2	0.5	0.5					
						1.0	0.0	99	28.1	28.1	8.2	8.2	32.2	32.2	97.0	97.0	6.3	6.3	6.1	6.1	6	6	87	88				<0.2	0.5						
						5.4	0.0	229	28.2	28.2	8.1	8.1	33.0	33.0	87.0	87.0	5.7	5.7	7.1	7.1	7	7	90	91				<0.2	0.5						
					5.4	0.0	250	28.2	28.2	8.1	8.1	33.0	33.0	87.0	87.0	5.6	5.6	7.0	7.0	6	6	90	91	<0.2				0.4							
					9.8	0.1	287	28.3	28.3	8.1	8.1	33.5	33.5	87.0	87.2	5.6	5.6	10.9	10.9	7	7	94	95	<0.2				0.4							
					9.8	0.1	295	28.3	28.3	8.1	8.1	33.5	33.5	87.4	87.4	5.7	5.7	11.0	11.0	7	7	94	95	<0.2				0.4							
IM1	Cloudy	Moderate	17:44	5.1	Surface	1.0	0.1	311	27.3	27.3	8.3	8.3	31.5	31.5	95.5	95.4	6.4	6.4	4.7	4.7	4	4	86	87	88	817942	807108	<0.2	0.4	0.5					
						1.0	0.1	341	27.3	27.3	8.3	8.3	31.5	31.5	95.3	95.3	6.3	6.3	4.7	4.7	4	4	87	88				<0.2	0.4						
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-		-	-	-	-	-
					4.1	0.1	260	27.3	27.3	8.2	8.3	31.5	31.5	90.6	90.6	6.0	6.0	8.4	8.4	7	7	88	89	<0.2				0.5							
					4.1	0.1	276	27.3	27.3	8.2	8.3	31.5	31.5	90.6	90.6	6.0	6.0	8.4	8.4	8	8	89	90	<0.2				0.5							
					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-		-	-	-	-	-
IM2	Cloudy	Moderate	17:37	7.0	Surface	1.0	0.3	5	27.1	27.1	8.3	8.3	31.0	31.0	99.0	99.0	6.6	6.6	5.1	5.1	4	4	85	86	87	818179	806159	<0.2	0.4	0.4					
						1.0	0.4	5	27.1	27.1	8.3	8.3	31.0	31.0	99.0	99.0	6.6	6.6	5.1	5.1	3	3	85	86				<0.2	0.4						
						3.5	0.4	342	27.0	27.0	8.3	8.3	31.2	31.2	98.4	98.3	6.6	6.6	6.0	6.0	6	6	87	88				<0.2	0.4						
					3.5	0.5	315	27.0	27.0	8.3	8.3	31.2	31.2	98.2	98.3	6.6	6.6	6.1	6.1	5	5	87	88	<0.2				0.4							
					6.0	0.4	316	27.0	27.0	8.3	8.3	31.3	31.3	98.6	98.7	6.6	6.6	6.7	6.7	7	7	89	90	<0.2				0.4							
					6.0	0.4	335	27.0	27.0	8.3	8.3	31.3	31.3	98.8	98.7	6.6	6.6	6.5	6.5	6	6	89	90	<0.2				0.4							
IM3	Cloudy	Moderate	17:30	6.7	Surface	1.0	0.5	322	26.9	26.9	8.3	8.3	30.9	30.9	98.5	98.4	6.6	6.6	5.9	5.9	4	4	85	86	87	818801	805579	<0.2	0.5	0.4					
						1.0	0.5	349	26.9	26.9	8.3	8.3	30.9	30.9	98.3	98.4	6.6	6.6	6.0	6.0	4	4	85	86				<0.2	0.4						
						3.4	0.5	318	26.9	26.9	8.3	8.3	31.2	31.2	96.5	96.5	6.5	6.5	8.3	8.3	6	6	87	88				<0.2	0.5						
					3.4	0.5	339	26.9	26.9	8.3	8.3	31.2	31.2	96.5	96.5	6.5	6.5	8.2	8.2	6	6	86	87	<0.2				0.4							
					5.7	0.3	294	26.9	26.9	8.3	8.3	31.2	31.2	98.3	98.5	6.6	6.6	10.3	10.3	6	6	89	90	<0.2				0.4							
					5.7	0.3	310	26.9	26.9	8.3	8.3	31.2	31.2	98.7	98.5	6.6	6.6	10.1	10.1	6	6	89	90	<0.2				0.4							
IM4	Cloudy	Moderate	17:21	7.4	Surface	1.0	0.5	311	27.1	27.1	8.3	8.3	31.2	31.2	97.2	97.2	6.5	6.5	5.5	5.5	5	5	85	86	88	819724	804613	<0.2	0.4	0.4					
						1.0	0.5	320	27.1	27.1	8.3	8.3	31.2	31.2	97.2	97.2	6.5	6.5	5.7	5.7	5	5	86	87				<0.2	0.4						
						3.7	0.5	298	27.1	27.1	8.3	8.3	31.2	31.2	97.1	97.2	6.5	6.5	6.0	6.0	4	4	88	89				<0.2	0.4						
					3.7	0.6	325	27.1	27.1	8.3	8.3	31.2	31.2	97.2	97.2	6.5	6.5	6.0	6.0	4	4	88	89	<0.2				0.4							
					6.4	0.2	327	27.1	27.1	8.3	8.3	31.3	31.3	98.0	98.2	6.6	6.6	10.6	10.6	4	4	90	91	<0.2				0.4							
					6.4	0.2	359	27.1	27.1	8.3	8.3	31.3	31.3	98.3	98.2	6.6	6.6	11.4	11.4	4	4	89	90	<0.2				0.4							
IM5	Cloudy	Moderate	17:13	6.8	Surface	1.0	0.2	283	27.2	27.2	8.3	8.3	29.8	29.8	98.3	98.3	6.6	6.6	4.4	4.4	6	6	85	86	87	820749	804883	<0.2	0.5	0.5					
						1.0	0.2	300	27.2	27.2	8.3	8.3	29.8	29.8	98.3	98.3	6.6	6.6	4.5	4.5	5	5	85	86				<0.2	0.5						
						3.4	0.3	280	27.2	27.2	8.3	8.3	29.8	29.8	98.4	98.5	6.6	6.6	4.7	4.7	5	5	87	88				<0.2	0.6						
					3.4	0.3	297	27.2	27.2	8.3	8.3	29.8	29.8	98.5	98.5	6.6	6.6	4.8	4.8	6	6	88	89	<0.2				0.5							
					5.8	0.2	303	27.2	27.2	8.3	8.3	29.8	29.8	99.7	99.8	6.7	6.7	5.4	5.4	4	4	90	91	<0.2				0.5							
					5.8	0.2	310	27.2	27.2	8.3	8.3	29.8	29.8	99.8	99.8	6.7	6.7	5.3	5.3	3	3	89	90	<0.2				0.5							
IM6	Cloudy	Moderate	17:06	7.1	Surface	1.0	0.4	266	27.3	27.3	8.3	8.3	29.7	29.7	97.7	97.7	6.6	6.6	4.0	4.0	2	2	85	86	87	821038	805839	<0.2	0.5	0.5					
						1.0	0.4	274	27.3	27.3	8.3	8.3	29.7	29.7	97.7	97.7	6.6	6.6	4.1	4.1	3	3	85	86				<0.2	0.5						
						3.6	0.3	282	27.3	27.3	8.3	8.3	29.7	29.7	97.9	97.9	6.6	6.6	4.4	4.4	2	2	87	88				<0.2	0.5						
					3.6	0.3	300	27.3	27.3	8.3	8.3	29.7	29.7	97.9	97.9	6.6	6.6	4.4	4.4	3	3	87	88	<0.2				0.5							
					6.1	0.1	291	27.2	27.2	8.3	8.3	29.9	29.9	99.5	99.6	6.7	6.7	4.9	4.9	5	5	89	90	<0.2				0.5							
					6.1	0.1	299	27.2	27.2	8.3	8.3	29.9	29.9	99.6	99.6	6.7	6.7	4.8	4.8	4	4	89	90	<0.2				0.6							

**Expansion of Hong Kong International Airport into a Three-Runway System**  
**Water Quality Monitoring**  
**Water Quality Monitoring Results on 10 October 20 during Mid-Flood Tide**

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity (NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)							
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA	Value	DA	Value	DA
IM9	Sunny	Moderate	17:30	7.6	Surface	1.0	0.2	205	28.2	28.2	8.2	8.2	31.9	31.9	98.3	98.3	6.4	6.5	6.1	6.1	5	5	87	91	822099	808807	<0.2	0.6	0.6	0.6						
						1.0	0.2	207	28.2	8.2	8.2	31.9	31.9	98.3	98.3	6.4	6.5	6.1	6.1	4	4	87	91	822099	808807	<0.2	0.6	0.6	0.6							
						3.8	0.1	250	27.9	8.2	8.2	31.9	31.9	98.4	98.5	6.5	6.5	6.6	6.6	3	3	90	91	822099	808807	<0.2	0.6	0.6	0.6							
					Middle	3.8	0.2	268	27.9	27.9	8.2	8.2	31.9	31.9	98.5	98.5	6.5	6.5	6.6	6.6	7.0	7.0	4	4	91	91	822099	808807	<0.2	0.6	0.6	0.6				
						6.6	0.0	245	27.8	27.8	8.2	8.2	32.0	32.0	97.9	98.0	6.4	6.4	8.2	8.2	3	3	94	94	822099	808807	<0.2	0.6	0.6	0.6						
						6.6	0.0	260	27.8	27.8	8.2	8.2	32.0	32.0	98.0	98.0	6.5	6.5	8.3	8.3	3	3	95	95	822099	808807	<0.2	0.6	0.6	0.6						
IM10	Sunny	Moderate	17:39	8.4	Surface	1.0	0.0	277	28.2	28.2	8.2	8.2	31.9	31.9	98.9	98.9	6.5	6.5	6.1	6.1	4	4	87	91	822388	809808	<0.2	0.7	0.7	0.7						
						4.2	0.1	330	28.0	28.0	8.2	8.2	31.9	31.9	98.5	98.5	6.5	6.5	6.6	6.6	4	4	91	91	822388	809808	<0.2	0.7	0.7	0.7						
						4.2	0.1	337	28.0	28.0	8.2	8.2	31.9	31.9	98.5	98.5	6.5	6.5	6.6	6.6	4	4	90	91	822388	809808	<0.2	0.7	0.7	0.7						
					Middle	7.4	0.2	341	27.8	27.8	8.1	8.1	32.0	32.0	96.3	96.4	6.3	6.3	7.9	7.9	2	2	94	94	822388	809808	<0.2	0.7	0.7	0.7						
						7.4	0.2	350	27.8	27.8	8.1	8.1	32.0	32.0	96.4	96.4	6.3	6.3	7.9	7.9	3	3	95	95	822388	809808	<0.2	0.7	0.7	0.7						
						1.0	0.1	269	28.0	28.0	8.2	8.2	32.0	32.0	100.7	100.7	6.6	6.6	6.9	6.9	5	5	86	86	822388	809808	<0.2	0.7	0.7	0.7						
Bottom	1.0	0.1	278	28.0	28.0	8.2	8.2	32.0	32.0	100.7	100.7	6.6	6.6	6.9	6.9	4	4	87	87	822388	809808	<0.2	0.6	0.6	0.6											
	4.5	0.1	294	27.9	27.9	8.2	8.2	32.0	32.0	98.8	98.8	6.5	6.5	6.5	6.5	3	3	91	91	822388	809808	<0.2	0.6	0.6	0.6											
	4.5	0.1	318	27.9	27.9	8.2	8.2	32.0	32.0	98.8	98.8	6.5	6.5	6.5	6.5	4	4	91	91	822388	809808	<0.2	0.6	0.6	0.6											
IM11	Sunny	Moderate	18:13	8.9	Surface	7.9	0.1	289	27.6	27.6	8.2	8.2	32.1	32.1	96.0	96.0	6.3	6.3	11.1	11.1	3	3	94	91	822036	811441	<0.2	0.6	0.6	0.6						
						7.9	0.2	303	27.6	27.6	8.2	8.2	32.1	32.1	95.9	96.0	6.3	6.3	11.2	11.2	2	2	95	91	822036	811441	<0.2	0.6	0.6	0.6						
						1.0	0.2	252	27.6	27.6	8.2	8.2	31.8	31.8	103.3	103.3	6.8	6.8	6.4	6.4	2	2	87	87	822036	811441	<0.2	0.6	0.6	0.6						
					Middle	1.0	0.2	257	27.6	27.6	8.2	8.2	31.8	31.8	103.3	103.3	6.8	6.8	6.4	6.4	3	3	87	87	822036	811441	<0.2	0.6	0.6	0.6						
						4.2	0.3	268	27.5	27.5	8.2	8.2	31.8	31.8	98.3	98.3	6.5	6.5	7.1	7.1	3	3	91	91	822036	811441	<0.2	0.6	0.6	0.6						
						4.2	0.3	271	27.5	27.5	8.2	8.2	31.8	31.8	98.3	98.3	6.5	6.5	7.1	7.1	4	4	91	91	822036	811441	<0.2	0.6	0.6	0.6						
Bottom	7.3	0.2	275	27.5	27.5	8.2	8.2	31.9	31.9	96.9	96.9	6.4	6.4	7.5	7.5	4	4	94	94	822036	811441	<0.2	0.6	0.6	0.6											
	7.3	0.3	286	27.5	27.5	8.2	8.2	31.9	31.9	96.9	96.9	6.4	6.4	7.5	7.5	2	2	95	95	822036	811441	<0.2	0.6	0.6	0.6											
	1.0	-	-	-	-	8.1	8.1	31.3	31.3	91.2	91.2	6.0	6.0	6.8	6.8	5	5	-	-	-	-	822036	811441	-	-	-	-									
SR1A	Sunny	Moderate	18:42	5.6	Surface	1.0	-	-	28.4	28.4	8.1	8.1	31.3	31.3	91.2	91.2	6.0	6.0	6.8	6.8	5	5	-	-	819976	812659	-	-	-	-						
						1.0	-	-	28.4	28.4	8.1	8.1	31.3	31.3	91.2	91.2	6.0	6.0	6.8	6.8	5	5	-	-	-	-	819976	812659	-	-	-	-				
						2.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
					Middle	2.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
						4.6	-	-	28.1	28.1	8.1	8.1	31.7	31.7	91.7	91.7	6.0	6.0	6.9	6.9	8	8	-	-	-	-	819976	812659	-	-	-	-				
						4.6	-	-	28.1	28.1	8.1	8.1	31.7	31.7	91.7	91.7	6.0	6.0	6.9	6.9	9	9	-	-	-	-	819976	812659	-	-	-	-				
SR2	Sunny	Moderate	18:56	4.6	Surface	1.0	0.2	193	28.0	28.0	8.2	8.2	31.9	31.9	101.4	101.4	6.7	6.7	8.4	8.4	3	3	87	89	821484	814157	<0.2	0.6	0.6	0.6						
						1.0	0.2	199	28.0	28.0	8.2	8.2	31.9	31.9	101.3	101.3	6.6	6.6	8.4	8.4	3	3	87	87	821484	814157	<0.2	0.6	0.6	0.6						
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
					Middle	3.6	0.2	204	27.9	27.9	8.2	8.2	32.0	32.0	100.8	100.8	6.6	6.6	7.6	7.6	4	4	90	90	821484	814157	<0.2	0.6	0.6	0.6						
						3.6	0.2	208	27.9	27.9	8.2	8.2	32.0	32.0	100.9	100.9	6.6	6.6	7.6	7.6	4	4	90	90	821484	814157	<0.2	0.6	0.6	0.6						
						1.0	0.3	220	27.9	27.9	8.1	8.1	31.0	31.0	96.3	96.4	6.4	6.4	6.0	6.0	5	5	-	-	-	-	821484	814157	<0.2	0.6	0.6	0.5				
SR3	Sunny	Moderate	17:17	8.8	Surface	1.0	0.4	241	27.9	27.9	8.1	8.1	31.0	31.0	96.4	96.4	6.4	6.4	6.0	6.0	4	4	-	-	-	-	822148	807552	-	-	-	-				
						4.4	0.2	236	27.9	27.9	8.1	8.1	31.6	31.6	96.8	96.8	6.4	6.4	6.5	6.5	4	4	-	-	-	-	822148	807552	-	-	-	-				
						4.4	0.2	259	27.9	27.9	8.1	8.1	31.6	31.6	96.8	96.8	6.4	6.4	6.5	6.5	5	5	-	-	-	-	822148	807552	-	-	-	-				
					Middle	7.8	0.2	263	27.8	27.8	8.2	8.2	31.9	31.9	96.9	96.9	6.4	6.4	8.2	8.2	5	5	-	-	-	-	822148	807552	-	-	-	-				
						7.8	0.2	288	27.8	27.8	8.2	8.2	31.9	31.9	96.9	96.9	6.4	6.4	8.2	8.2	5	5	-	-	-	-	822148	807552	-	-	-	-				
						1.0	0.2	85	27.5	27.5	8.3	8.3	29.3	29.3	102.9	103.0	6.9	6.9	5.1	5.1	3	3	-	-	-	-	822148	807552	-	-	-	-				
SR4A	Cloudy	Moderate	18:25	8.2	Surface	1.0	0.2	85	27.5	27.5	8.3	8.3	29.3	29.3	103.0	103.0	6.9	6.9	5.1	5.1	3	3	-	-	-	-	817205	807786	-	-	-	-				
						1.0	0.2	85	27.5	27.5	8.3	8.3	29.3	29.3	103.0	103.0	6.9	6.9	5.1	5.1	3	3	-	-	-	-	817205	807786	-	-	-	-				
						4.1	0.1	99	27.3	27.3	8.4	8.4	30.1	30.1	97.6	97.6	6.5	6.5	5.5	5.5	6	6	-	-	-	-	817205	807786	-	-	-	-				
					Middle	4.1	0.1	106	27.3	27.3	8.4	8.4	30.1	30.1	97.5	97.5	6.5	6.5	5.5	5.5	6	6	-	-	-	-	817205	807786	-	-	-	-				
						7.2	0.1	71	27.3	27.3	8.4	8.4	30.5	30.5	97.3	97.4	6.5	6.5	6.6	6.6	5	5	-	-	-	-	817205	807786	-	-	-	-				
						7.2	0.1	78	27.3																											

Expansion of Hong Kong International Airport into a Three-Runway System

Water Quality Monitoring

Water Quality Monitoring Results on 15 October 20 during Mid-Ebb Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity (NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)							
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA	Value	DA	Value	DA
C1	Cloudy	Moderate	11:36	9.0	Surface	1.0	0.5	239	27.2	8.2	8.2	34.0	34.0	95.7	95.7	6.3	6.3	6.1	12	86	89	815639	804227	<0.2	0.6	0.6										
						1.0	0.5	257	27.2	8.2	8.2	34.0	34.0	95.6	95.6	6.2	6.2	13	85	89	815639	804227	<0.2	0.6												
						4.5	0.4	238	27.1	8.2	8.2	34.0	34.0	93.7	93.8	6.2	6.2	9.9	12	90	89	815639	804227	<0.2	0.6											
					4.5	0.4	260	27.1	8.2	8.2	34.0	34.0	93.8	93.8	6.2	6.2	10.1	12	89	89	815639	804227	<0.2	0.6												
					8.0	0.4	236	27.1	8.2	8.2	34.0	34.0	94.0	94.0	6.2	6.2	13.8	13	93	89	815639	804227	<0.2	0.6												
					8.0	0.4	264	27.1	8.2	8.2	34.0	34.0	94.0	94.0	6.2	6.2	13.8	14	93	89	815639	804227	<0.2	0.6												
C2	Cloudy	Rough	12:49	11.5	Surface	1.0	1.1	171	26.9	8.3	8.3	30.0	30.0	102.1	102.1	6.9	6.7	4.9	7	88	91	825683	806932	<0.2	0.9	0.9										
						1.0	1.1	179	26.9	8.3	8.3	30.0	30.0	102.1	102.1	6.9	6.7	4.9	6	88	91	825683	806932	<0.2	0.9											
						5.8	0.9	166	26.8	8.3	8.3	30.4	30.4	96.9	96.9	6.5	6.5	8.5	10	91	91	825683	806932	<0.2	0.9											
					5.8	0.9	174	26.7	8.3	8.3	30.4	30.4	96.9	96.9	6.5	6.5	8.7	9	92	91	825683	806932	<0.2	0.8												
					10.5	0.7	168	26.6	8.3	8.3	30.5	30.5	96.8	96.8	6.5	6.5	12.1	12	93	91	825683	806932	<0.2	0.8												
					10.5	0.7	181	26.7	8.3	8.3	30.5	30.5	96.8	96.8	6.5	6.5	12.2	12	94	91	825683	806932	<0.2	0.8												
C3	Cloudy	Moderate	10:35	12.1	Surface	1.0	0.6	100	27.1	8.3	8.3	31.4	31.4	91.8	91.7	6.1	6.0	5.2	9	85	89	822113	817819	<0.2	0.8	0.8										
						1.0	0.6	104	27.1	8.3	8.3	31.4	31.4	91.5	91.7	6.1	6.0	5.3	8	86	89	822113	817819	<0.2	0.8											
						6.1	0.5	93	27.2	8.3	8.3	31.6	31.6	87.8	87.8	5.8	6.0	6.3	8	90	89	822113	817819	<0.2	0.9											
					6.1	0.5	94	27.2	8.3	8.3	31.6	31.6	87.7	87.8	5.8	6.0	6.6	9	90	89	822113	817819	<0.2	0.7												
					11.1	0.3	91	27.2	8.4	8.4	31.7	31.7	88.0	88.1	5.9	5.9	6.5	9	92	89	822113	817819	<0.2	0.7												
					11.1	0.3	99	27.2	8.4	8.4	31.7	31.7	88.1	88.1	5.9	5.9	6.4	9	92	89	822113	817819	<0.2	0.7												
IM1	Fine	Moderate	12:00	5.2	Surface	1.0	0.2	188	26.8	8.2	8.2	33.7	33.7	99.1	99.1	6.6	6.6	4.1	11	87	90	817925	807148	<0.2	0.6	0.6										
						1.0	0.2	202	26.8	8.2	8.2	33.7	33.7	99.1	99.1	6.6	6.6	4.1	12	88	90	817925	807148	<0.2	0.6											
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-			
					4.2	0.1	185	26.8	8.2	8.2	33.8	33.8	99.6	99.7	6.6	6.6	7.2	10	92	90	817925	807148	<0.2	0.6												
					4.2	0.1	196	26.8	8.2	8.2	33.8	33.8	99.8	99.8	6.6	6.6	7.2	9	91	90	817925	807148	<0.2	0.6												
					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-			
IM2	Fine	Moderate	12:08	7.1	Surface	1.0	0.2	177	26.9	8.2	8.2	33.7	33.7	100.8	100.8	6.7	6.7	1.6	8	87	90	818142	806167	<0.2	0.6	0.6										
						1.0	0.2	178	26.9	8.2	8.2	33.7	33.7	100.8	100.8	6.7	6.7	1.6	8	87	90	818142	806167	<0.2	0.6											
						3.6	0.2	162	26.9	8.2	8.2	33.7	33.7	100.3	100.3	6.6	6.7	2.7	8	90	90	818142	806167	<0.2	0.6											
					3.6	0.2	178	26.9	8.2	8.2	33.7	33.7	100.2	100.3	6.6	6.6	2.8	8	90	90	818142	806167	<0.2	0.7												
					6.1	0.3	155	26.9	8.2	8.2	34.0	34.0	98.9	99.0	6.5	6.5	8.1	9	93	90	818142	806167	<0.2	0.6												
					6.1	0.3	165	26.9	8.2	8.2	34.0	34.0	99.1	99.0	6.5	6.5	8.1	8	94	90	818142	806167	<0.2	0.6												
IM3	Fine	Moderate	12:16	7.3	Surface	1.0	0.4	128	27.0	8.2	8.2	33.4	33.4	100.3	100.3	6.6	6.6	11.7	9	87	90	818793	805595	<0.2	0.6	0.6										
						1.0	0.4	131	27.0	8.2	8.2	33.4	33.4	100.2	100.3	6.6	6.6	11.9	8	86	90	818793	805595	<0.2	0.6											
						3.7	0.4	115	26.9	8.2	8.2	33.4	33.4	99.1	99.1	6.6	6.6	14.4	11	91	90	818793	805595	<0.2	0.6											
					3.7	0.4	117	27.0	8.2	8.2	33.4	33.4	99.1	99.1	6.6	6.6	14.7	12	90	90	818793	805595	<0.2	0.7												
					6.3	0.4	122	26.9	8.2	8.2	33.4	33.4	99.8	99.8	6.6	6.6	17.2	14	94	90	818793	805595	<0.2	0.6												
					6.3	0.4	133	26.9	8.2	8.2	33.4	33.4	99.8	99.8	6.6	6.6	17.0	15	93	90	818793	805595	<0.2	0.6												
IM4	Fine	Moderate	12:28	8.0	Surface	1.0	1.0	201	27.2	8.2	8.2	33.9	33.9	98.6	98.6	6.5	6.5	9.2	14	87	90	819715	804626	<0.2	0.6	0.6										
						1.0	1.0	216	27.2	8.2	8.2	33.9	33.9	98.6	98.6	6.5	6.5	9.1	14	87	90	819715	804626	<0.2	0.6											
						4.0	0.9	201	27.2	8.2	8.2	33.9	33.9	97.9	97.9	6.4	6.4	10.4	16	90	90	819715	804626	<0.2	0.7											
					4.0	0.9	213	27.2	8.2	8.2	33.9	33.9	97.9	97.9	6.4	6.4	10.6	18	90	90	819715	804626	<0.2	0.6												
					7.0	0.7	197	27.1	8.2	8.2	33.9	33.9	98.0	98.0	6.4	6.4	12.4	18	94	90	819715	804626	<0.2	0.6												
					7.0	0.8	212	27.1	8.2	8.2	33.9	33.9	97.9	98.0	6.4	6.4	12.3	18	93	90	819715	804626	<0.2	0.6												
IM5	Fine	Moderate	12:40	6.9	Surface	1.0	1.1	216	27.3	8.2	8.2	32.9	32.9	104.3	104.2	6.9	6.8	3.6	12	87	90	820723	804875	<0.2	0.6	0.6										
						1.0	1.1	229	27.3	8.2	8.2	32.9	32.9	104.1	104.2	6.9	6.8	3.7	13	87	90	820723	804875	<0.2	0.6											
						3.5	0.9	209	27.2	8.2	8.2	33.7	33.7	100.9	100.9	6.6	6.6	7.0	11	90	90	820723	804875	<0.2	0.6											
					3.5	1.0	222	27.2	8.2	8.2	33.7	33.7	100.9	100.9	6.6	6.6	7.2	10	90	90	820723	804875	<0.2	0.6												
					5.9	0.9	209	27.1	8.2	8.2	33.9	33.9	100.7	100.7	6.6	6.6	10.0	9	93	90	820723	804875	<0.2	0.7												
					5.9	0.9	224	27.1	8.2	8.2	33.9	33.9	100.7	100.7	6.6	6.6	10.1	10	93	90	820723	804875	<0.2	0.7												
IM6	Fine	Moderate	12:51	7.2	Surface	1.0	0.8	229	27.3	8.2	8.2	32.6	32.6	104.7	104.8	6.9	6.8	3.2	11	87	91	821058	805815	<0.2	0.6	0.7										
						1.0	0.8	239	27.3	8.2	8.2	32.6	32.6	104.8	104.8	6.9	6.8	3.3	11	88	91	821058	805815	<0.2	0.7											
						3.6	0.7	219	27.1	8.2	8.2	33.2	33.2	100.0	100.0	6.6	6.6	7.3	9	90	91	821058	805815	<0.2	0.8											
					3.6	0.7	230	27.1	8.2	8.2	33.2	33.2	99.9	100.0	6.6	6.6	7.5	10	91	91	821058	805815	<0.2	0.8												
					6.2	0.6	220	27.1	8.2	8.2	33.3	33.3	100.4	100.4	6.6	6.6	12.3	7	93	91	821058	805815	<0.2	0.7												
					6.2	0.6	224	27.1	8.2	8.2	33.3	33.3	100.4	100.4	6.6	6.6	12.3	8	94	91	821058	805815	<0.2	0.7												
IM7	Cloudy	Moderate	13:02	8.4	Surface	1.0	0.6	253	27.5	8.2	8.2	32.3	32.3	105.6	105.6	7.0	6.9																			

Expansion of Hong Kong International Airport into a Three-Runway System

Water Quality Monitoring

Water Quality Monitoring Results on 15 October 20 during Mid-Ebb Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity (NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)						
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA			
IM9	Cloudy	Moderate	12:10	7.7	Surface	1.0	0.4	98	26.5	26.5	8.3	8.3	30.9	30.9	99.4	99.4	6.7	6.6	7.8	7.8	13	13	88	88	91	822079	808813	<0.2	0.6	0.7					
						1.0	0.4	104	26.5	8.3	8.3	30.9	30.9	99.3	99.3	6.7	6.6	7.8	7.8	11	11	91	91	<0.2				0.7							
						3.9	0.4	95	26.4	26.4	8.3	8.3	31.4	31.4	95.4	95.4	6.4	6.4	11.1	11.1	11	11	92	92				<0.2	0.7						
					3.9	0.4	100	26.4	26.4	8.3	8.3	31.4	31.4	95.4	95.4	6.4	6.4	11.1	11.1	10	10	92	92	<0.2				0.8							
					6.7	0.4	99	26.4	26.4	8.3	8.3	31.4	31.4	95.6	95.7	6.5	6.5	14.2	14.2	10	10	93	93	<0.2				0.7							
					6.7	0.4	107	26.4	26.6	8.3	8.3	31.4	31.4	95.7	95.7	6.5	6.5	14.4	14.4	10	10	93	93	<0.2				0.7							
IM10	Cloudy	Moderate	12:00	8.1	Surface	1.0	0.7	124	26.6	26.6	8.3	8.3	30.8	30.8	100.8	100.8	6.8	6.8	6.6	6.6	10	10	87	87	91	822366	809793	<0.2	0.7	0.7					
						1.0	0.7	124	26.6	26.6	8.3	8.3	30.8	30.8	100.7	100.8	6.8	6.8	6.6	6.6	10	10	88	88				<0.2	0.7						
						4.1	0.6	110	26.4	26.4	8.3	8.3	31.0	31.0	95.6	95.6	6.5	6.5	10.5	10.5	8	8	91	91				<0.2	0.7						
					4.1	0.7	118	26.4	26.4	8.3	8.3	31.0	31.0	95.6	95.6	6.5	6.5	10.5	10.5	8	8	92	92	<0.2				0.8							
					7.1	0.6	117	26.4	26.4	8.3	8.3	31.1	31.1	96.0	96.1	6.5	6.5	14.9	14.9	8	8	94	94	<0.2				0.7							
					7.1	0.6	117	26.4	26.4	8.3	8.3	31.1	31.1	96.1	96.1	6.5	6.5	14.9	14.9	9	9	94	94	<0.2				0.7							
IM11	Cloudy	Moderate	11:46	7.8	Surface	1.0	0.7	127	26.5	26.5	8.3	8.3	30.7	30.7	100.1	100.1	6.8	6.8	6.6	6.6	10	10	86	86	89	822076	811468	<0.2	0.7	0.8					
						1.0	0.7	139	26.5	26.5	8.3	8.3	30.7	30.7	100.0	100.0	6.8	6.8	6.7	6.7	11	11	86	86				<0.2	0.8						
						3.9	0.7	123	26.5	26.5	8.3	8.3	30.8	30.8	97.5	97.5	6.6	6.6	8.3	8.3	9	9	89	89				<0.2	0.8						
					3.9	0.7	128	26.5	26.5	8.3	8.3	30.8	30.8	97.4	97.5	6.6	6.6	8.2	8.2	10	10	89	89	<0.2				0.8							
					6.8	0.4	119	26.5	26.5	8.3	8.3	30.8	30.8	96.5	96.6	6.5	6.5	16.9	16.9	9	9	90	90	<0.2				0.8							
					6.8	0.4	129	26.5	26.5	8.3	8.3	30.8	30.8	96.6	96.6	6.5	6.5	16.8	16.8	10	10	90	90	<0.2				0.9							
IM12	Cloudy	Moderate	11:37	9.1	Surface	1.0	0.6	109	26.5	26.5	8.3	8.3	30.7	30.7	97.2	97.2	6.6	6.6	12.0	12.0	11	11	85	85	89	821471	812045	<0.2	0.8	0.8					
						1.0	0.6	119	26.5	26.5	8.3	8.3	30.7	30.7	97.2	97.2	6.6	6.6	12.1	12.1	11	11	88	88				<0.2	0.9						
						4.6	0.5	119	26.4	26.4	8.3	8.3	30.7	30.7	96.5	96.5	6.5	6.5	12.1	12.1	16	16	89	89				<0.2	0.7						
					4.6	0.6	119	26.4	26.4	8.3	8.3	30.7	30.7	96.5	96.5	6.5	6.5	12.0	12.0	17	17	90	90	<0.2				0.9							
					8.1	0.5	108	26.4	26.4	8.3	8.3	30.7	30.7	96.6	96.6	6.6	6.6	17.8	17.8	19	19	92	92	<0.2				0.8							
					8.1	0.6	117	26.4	26.4	8.3	8.3	30.7	30.7	96.7	96.7	6.6	6.6	17.6	17.6	20	20	93	93	<0.2				0.8							
SR1A	Cloudy	Moderate	11:15	4.7	Surface	1.0	-	-	26.5	26.5	8.3	8.3	30.8	30.8	95.4	95.4	6.5	6.5	6.8	6.8	8	8	-	-	-	819972	812653	-	-	-					
						1.0	-	-	26.5	26.5	8.3	8.3	30.8	30.8	95.4	95.4	6.5	6.5	6.9	6.9	8	8	-	-				-	-						
						2.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-		-	-	-	-	-
					2.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-		-	-	-	-	-
					3.7	-	-	26.5	26.5	8.3	8.3	30.8	30.8	95.2	95.2	6.4	6.4	7.0	7.0	12	12	-	-	-				-	-		-	-	-	-	
					3.7	-	-	26.5	26.5	8.3	8.3	30.8	30.8	95.1	95.1	6.4	6.4	6.9	6.9	11	11	-	-	-				-	-		-	-	-	-	-
SR2	Cloudy	Moderate	11:01	4.8	Surface	1.0	0.4	79	26.6	26.6	8.4	8.4	30.9	30.9	96.1	96.3	6.5	6.5	7.4	7.4	8	8	88	88	90	821446	814156	<0.2	0.8	0.8					
						1.0	0.4	85	26.6	26.6	8.4	8.4	30.9	30.9	96.4	96.3	6.5	6.5	7.8	7.8	7	7	89	89				<0.2	0.8						
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-		-	-	-	-	-
					3.8	0.3	72	26.6	26.6	8.4	8.4	30.9	30.9	95.2	95.2	6.4	6.4	9.8	9.8	8	8	90	90	<0.2				0.8							
					3.8	0.3	73	26.6	26.6	8.4	8.4	30.9	30.9	95.2	95.2	6.4	6.4	9.9	9.9	9	9	91	91	<0.2				0.8							
					3.8	0.3	75	26.6	26.6	8.4	8.4	30.9	30.9	95.2	95.2	6.4	6.4	9.9	9.9	9	9	91	91	<0.2				0.7							
SR3	Cloudy	Moderate	12:24	9.1	Surface	1.0	0.4	184	26.9	26.9	8.3	8.3	30.2	30.2	103.1	103.1	6.9	6.9	4.7	4.7	10	10	-	-	-	822127	807592	-	-	-					
						1.0	0.5	201	26.9	26.9	8.3	8.3	30.2	30.2	103.0	103.1	6.9	6.9	4.7	4.7	10	10	-	-				-	-						
						4.6	0.3	184	26.7	26.7	8.3	8.3	30.7	30.7	100.9	100.8	6.8	6.8	5.2	5.2	8	8	-	-				-	-						
					4.6	0.3	197	26.7	26.7	8.3	8.3	30.7	30.7	100.6	100.8	6.8	6.8	5.3	5.3	7	7	-	-	-				-							
					8.1	0.1	255	26.5	26.5	8.3	8.3	31.3	31.2	98.3	98.4	6.6	6.6	11.6	11.6	5	5	-	-	-				-							
					8.1	0.1	271	26.6	26.6	8.3	8.3	31.2	31.2	98.4	98.4	6.6	6.6	11.3	11.3	6	6	-	-	-				-							
SR4A	Fine	Calm	11:14	9.3	Surface	1.0	0.2	89	26.9	26.9	8.2	8.2	33.9	33.9	95.5	95.6	6.3	6.3	4.2	4.2	10	10	-	-	-	817179	807830	-	-	-					
						1.0	0.2	92	26.9	26.9	8.2	8.2	33.9	33.9	95.6	95.6	6.3	6.3	4.3	4.3	11	11	-	-											
						4.7	0.2	74	26.9	26.9	8.2	8.2	34.0	34.0	95.8	95.8	6.3	6.3	4.0	4.0	4.1	4.1	11	11				-	-						
					4.7	0.2	75	26.9	26.9	8.2	8.2	34.0	34.0	95.8	95.8	6.3	6.3	4.0	4.0	10	10	-	-												
					8.3	0.2	84	26.9	26.9	8.2	8.2	34.0	34.0	96.6	96.6	6.4	6.4	4.0	4.0	11	11	-	-												
					8.3	0.2	86	26.9	26.9	8.2	8.2	34.0	34.0	96.7	96.7	6.4	6.4	4.0	4.0	11	11	-	-												
SR5A	Cloudy	Calm	10:56	3.5	Surface	1.0	0.1	29	26.8	26.8	8.2	8.2	32.8	32.8	101.4	101.5	6.7	6.7	1.7	1.7	7	7	-	-	-	816569	810697	-	-	-					
						1.0	0.1	29	26.8	26.8	8.2	8.2	32.8	32.8	101.6	101.5	6.7	6.7	1.7	1.7	7	7	-	-											
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-		-	-	-		
					2.5	0.1	119	26.8	26.8	8.2	8.2	32.9	32.9	100.2	100.2	6.7	6.7	1.9	1.9	9	9	-	-												
					2.5	0.1	119	26.8	26.8	8.2	8.2	32.9	32.9	100.1	100.1	6.7	6.7	1.8	1.8	10	10	-	-												
					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-		-	-			
SR6A	Fine	Calm	10:25	4.1	Surface	1.0	0.1	96	26.8	26.8	8.1	8.1	32.1	32.1	98.2	98.2	6.6	6.6	4.0																

Expansion of Hong Kong International Airport into a Three-Runway System

Water Quality Monitoring

Water Quality Monitoring Results on 15 October 20 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity (NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)						
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA	Value	DA	
																																			Value
C1	Fine	Moderate	17:44	8.2	Surface	1.0	0.3	34	27.4	27.4	8.2	8.2	33.3	33.3	103.3	103.3	6.8	6.8	7.8	7.8	9	9	86	86	89	815614	804259	<0.2	0.8	0.7					
						1.0	0.3	35	27.4	8.2	8.2	33.3	33.3	103.2	103.3	6.8	6.8	7.9	7.9	9	9	86	86	<0.2				0.8							
						4.1	0.4	35	27.3	8.2	8.2	33.8	33.8	99.7	99.7	6.5	6.5	11.0	11.0	9	9	89	89	<0.2				0.6							
					4.1	0.4	37	27.3	8.2	8.2	33.8	33.8	99.7	99.7	6.5	6.5	11.2	11.2	10	10	89	89	<0.2	0.7											
					7.2	0.4	31	27.3	8.2	8.2	33.9	33.9	99.8	99.9	6.6	6.6	15.0	15.0	11	11	92	92	<0.2	0.6											
					7.2	0.4	32	27.3	8.2	8.2	33.9	33.9	99.9	99.9	6.6	6.6	14.9	14.9	11	11	92	92	<0.2	0.5											
C2	Cloudy	Moderate	16:32	10.8	Surface	1.0	0.4	190	27.4	27.4	8.3	8.3	28.6	28.6	98.8	98.7	6.7	6.7	7.1	7.1	8	8	88	88	91	825702	806938	<0.2	1.2	1.0					
						1.0	0.5	192	27.4	8.3	8.3	28.7	28.6	98.6	98.7	6.7	6.7	7.5	7.5	8	8	89	89	<0.2				1.0							
						5.4	0.2	196	27.1	8.3	8.3	29.8	29.8	95.1	94.7	5.7	5.7	14.8	14.8	8	8	91	91	<0.2				1.1							
					5.4	0.2	199	27.1	8.3	8.3	29.8	29.8	94.3	94.1	5.7	5.7	14.7	14.7	8	8	92	92	<0.2	1.1											
					9.8	0.3	11	27.0	8.3	8.3	30.0	30.0	51.0	51.0	6.4	6.4	11.5	11.5	9	9	94	94	<0.2	0.8											
					9.8	0.3	11	27.0	8.3	8.3	30.0	30.0	53.8	52.4	3.6	3.5	11.7	11.7	8	8	94	94	<0.2	0.9											
C3	Cloudy	Moderate	18:45	12.8	Surface	1.0	0.5	276	27.1	27.1	8.3	8.3	31.3	31.3	95.1	95.1	6.4	6.4	11.9	11.9	10	10	86	86	90	822108	817809	<0.2	0.6	0.6					
						1.0	0.5	291	27.1	8.3	8.3	31.3	31.3	95.1	95.1	6.4	6.4	12.0	12.0	9	9	86	86	<0.2				0.7							
						6.4	0.5	274	27.1	8.3	8.3	31.2	31.2	95.2	95.2	6.4	6.4	12.7	12.6	11	11	89	89	<0.2				0.6							
					6.4	0.6	291	27.1	8.3	8.3	31.2	31.2	95.2	95.2	6.4	6.4	12.6	12.6	12	12	90	90	<0.2	0.7											
					11.8	0.4	274	27.1	8.3	8.3	31.2	31.2	95.1	95.1	6.4	6.4	16.8	16.8	13	13	93	93	<0.2	0.6											
					11.8	0.5	290	27.1	8.3	8.3	31.2	31.2	95.1	95.1	6.4	6.4	16.8	16.8	13	13	94	94	<0.2	0.6											
IM1	Fine	Moderate	17:21	4.4	Surface	1.0	0.1	312	27.4	27.4	8.2	8.2	33.7	33.7	104.2	104.3	6.8	6.8	3.5	3.5	8	8	87	87	89	817939	807114	<0.2	0.5	0.5					
						1.0	0.1	338	27.4	8.2	8.2	33.7	33.7	104.4	104.4	6.9	6.9	3.6	3.6	9	9	87	87	<0.2				0.5							
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-		-	-	-	-	-
					3.4	0.1	275	27.1	8.2	8.2	33.8	33.8	102.5	102.6	6.8	6.8	11.5	11.5	11	11	91	91	<0.2	0.4											
					3.4	0.1	290	27.1	8.2	8.2	33.8	33.8	102.6	102.6	6.8	6.8	11.8	11.8	12	12	92	92	<0.2	0.4											
					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-		-	-	-	-	-
IM2	Fine	Moderate	17:12	6.5	Surface	1.0	0.3	8	27.3	27.3	8.2	8.2	33.3	33.3	104.6	104.6	6.9	6.9	6.9	6.9	13	13	86	86	89	818166	806144	<0.2	0.6	0.5					
						1.0	0.3	8	27.3	27.3	8.2	8.2	33.3	33.3	104.5	104.6	6.9	6.9	7.0	7.0	14	14	85	85				<0.2	0.7						
						3.3	0.4	339	27.2	8.2	8.2	33.6	33.6	101.9	101.9	6.7	6.7	10.4	10.4	13	13	90	90	<0.2				0.5							
					3.3	0.5	352	27.2	8.2	8.2	33.6	33.6	101.8	101.8	6.7	6.7	10.4	10.4	12	12	89	89	<0.2	0.5											
					5.5	0.4	324	27.1	8.2	8.2	33.6	33.6	99.7	99.7	6.6	6.6	14.0	14.0	11	11	92	92	<0.2	0.4											
					5.5	0.5	335	27.1	8.2	8.2	33.6	33.6	99.7	99.7	6.6	6.6	14.0	14.0	12	12	93	93	<0.2	0.4											
IM3	Fine	Moderate	17:04	6.7	Surface	1.0	0.5	318	27.2	27.2	8.2	8.2	33.7	33.7	100.8	100.8	6.6	6.6	14.6	14.6	9	9	87	87	90	818775	805598	<0.2	0.6	0.5					
						1.0	0.5	346	27.2	8.2	8.2	33.7	33.7	100.8	100.8	6.6	6.6	15.0	15.0	9	9	86	86	<0.2				0.6							
						3.4	0.5	320	27.2	8.2	8.2	33.7	33.7	99.9	99.9	6.6	6.6	19.0	19.0	10	10	89	89	<0.2				0.4							
					3.4	0.5	324	27.2	8.2	8.2	33.7	33.7	99.8	99.8	6.6	6.6	19.1	19.1	12	12	90	90	<0.2	0.4											
					5.7	0.3	299	27.1	8.2	8.2	33.7	33.7	98.6	98.6	6.5	6.5	22.2	22.2	15	15	93	93	<0.2	0.4											
					5.7	0.4	316	27.1	8.2	8.2	33.7	33.7	98.6	98.6	6.5	6.5	22.4	22.4	14	14	92	92	<0.2	0.4											
IM4	Fine	Moderate	16:52	7.8	Surface	1.0	0.5	301	27.4	27.4	8.2	8.2	33.5	33.5	106.9	107.0	7.0	7.0	1.5	1.5	9	9	86	86	90	819715	804625	<0.2	0.6	0.5					
						1.0	0.5	319	27.4	8.2	8.2	33.6	33.6	107.0	107.0	7.0	7.0	2.4	2.4	9	9	87	87	<0.2				0.6							
						3.9	0.5	284	27.1	8.2	8.2	33.6	33.6	105.9	105.9	7.0	7.0	2.4	2.4	10	10	90	90	<0.2				0.4							
					3.9	0.6	298	27.1	8.2	8.2	33.6	33.6	105.9	105.9	7.0	7.0	2.2	2.2	9	9	90	90	<0.2	0.5											
					6.8	0.2	314	27.1	8.2	8.2	33.6	33.6	106.0	106.0	7.0	7.0	2.2	2.2	11	11	93	93	<0.2	0.5											
					6.8	0.2	336	27.1	8.2	8.2	33.6	33.6	106.0	106.0	7.0	7.0	2.2	2.2	11	11	93	93	<0.2	0.5											
IM5	Fine	Moderate	16:43	7.1	Surface	1.0	0.2	276	27.6	27.6	8.2	8.2	32.2	32.2	103.1	103.2	6.8	6.8	11.1	11.1	25	25	86	86	90	820745	804866	<0.2	0.6	0.6					
						1.0	0.2	300	27.6	8.2	8.2	32.2	32.2	103.2	103.2	6.8	6.8	11.2	11.2	25	25	87	87	<0.2				0.6							
						3.6	0.3	271	27.6	8.2	8.2	32.2	32.2	102.9	102.9	6.8	6.8	11.4	11.4	24	24	90	90	<0.2				0.6							
					3.6	0.3	290	27.6	8.2	8.2	32.2	32.2	102.9	102.9	6.8	6.8	11.4	11.4	23	23	89	89	<0.2	0.5											
					6.1	0.2	296	27.6	8.2	8.2	32.2	32.2	103.1	103.2	6.8	6.8	15.6	15.6	23	23	93	93	<0.2	0.6											
					6.1	0.2	307	27.6	8.2	8.2	32.2	32.2	103.2	103.2	6.8	6.8	15.6	15.6	22	22	93	93	<0.2	0.6											
IM6	Fine	Moderate	16:36	7.3	Surface	1.0	0.4	253	27.6	27.6	8.2	8.2	32.1	32.1	102.7	102.9	6.8	6.8	12.2	12.2	16	16	86	86	90	821075	805848	<0.2	0.6	0.6					
						1.0	0.5	277	27.6	8.2	8.2	32.1	32.1	103.0	103.0	6.8	6.8	12.2	12.2	17	17	87	87	<0.2				0.6							
						3.7	0.3	280	27.6	8.2	8.2	32.1	32.1	102.4	102.6	6.8	6.8	13.7	13.7	20	20	91	91	<0.2				0.6							
					3.7	0.3	304	27.6	8.2	8.2	32.1	32.1	102.7	102.7	6.8	6.8	13.8	13.8	19	19	90	90	<0.2	0.6											
					6.3	0.1	282	27.6	8.2	8.2	32.1	32.1	102.3	102.4	6.8	6.8	14.9	14.9	21	21	94	94	<0.2	0.6											
					6.3	0.1	284	27.6	8.2	8.2	32.1	32.1	102.5	102.4	6.8	6.8	15.0	15.0	22	22	93	93	<0.2	0.5											
IM7	Fine	Moderate	16:30	8.5	Surface	1.0	0.4	2																											

Expansion of Hong Kong International Airport into a Three-Runway System

Water Quality Monitoring

Water Quality Monitoring Results on 15 October 20 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity (NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)							
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA	Value	DA	Value	DA
IM9	Cloudy	Moderate	17:06	7.2	Surface	1.0	0.4	248	27.2	27.2	8.3	8.3	30.1	30.1	101.8	101.8	6.8	6.8	6.4	6.4	10	10	88	88	90	822071	808795	<0.2	0.6	<0.2	0.6					
						1.0	0.4	262	27.2	8.3	8.3	30.1	30.1	101.8	101.8	6.8	6.8	6.4	6.4	10	10	88	88	<0.2				0.6								
					Middle	3.6	0.4	257	27.1	27.1	8.3	8.3	30.4	30.4	100.6	100.6	6.8	6.8	6.9	6.9	7.7	7.7	12	11				91	91	<0.2	0.6	<0.2	0.6			
						3.6	0.4	279	27.1	27.1	8.3	8.3	30.4	30.4	100.5	100.5	6.8	6.8	7.1	7.1	12	11	91	91				<0.2	0.6	<0.2	0.6					
					Bottom	6.2	0.3	262	27.1	27.1	8.3	8.3	30.4	30.4	99.8	99.8	6.7	6.7	9.6	9.6	13	12	92	92				<0.2	0.6	<0.2	0.6					
						6.2	0.3	285	27.1	27.1	8.3	8.3	30.4	30.4	99.8	99.8	6.7	6.7	9.7	9.7	12	10	92	92				<0.2	0.6	<0.2	0.6					
IM10	Cloudy	Moderate	17:17	7.7	Surface	1.0	0.7	289	27.2	27.2	8.3	8.3	30.4	30.4	102.7	102.7	6.9	6.9	5.4	5.4	10	10	87	87	91	822375	809814	<0.2	0.5	<0.2	0.6					
						1.0	0.7	290	27.2	27.2	8.3	8.3	30.4	30.4	102.7	102.7	6.9	6.9	5.5	5.5	10	10	88	88				<0.2	0.6	<0.2	0.6					
					Middle	3.9	0.5	297	27.0	27.0	8.3	8.3	30.6	30.6	101.0	101.0	6.8	6.8	8.5	8.5	8.8	8.8	9	9				91	91	<0.2	0.6	<0.2	0.6			
						3.9	0.6	318	27.0	27.0	8.3	8.3	30.6	30.6	100.9	100.9	6.8	6.8	8.9	8.9	9	9	92	92				<0.2	0.6	<0.2	0.6					
					Bottom	6.7	0.4	303	27.0	27.0	8.3	8.3	30.6	30.6	99.9	99.9	6.7	6.7	12.4	12.4	8	8	93	93				<0.2	0.5	<0.2	0.6					
						6.7	0.5	324	27.0	27.0	8.3	8.3	30.6	30.6	99.9	99.9	6.7	6.7	12.3	12.3	9	9	93	93				<0.2	0.7	<0.2	0.6					
IM11	Cloudy	Moderate	17:33	7.5	Surface	1.0	0.7	289	27.1	27.1	8.3	8.3	30.6	30.6	106.3	106.2	7.1	7.1	4.6	4.6	7	7	85	85	91	822057	811446	<0.2	0.5	<0.2	0.6					
						1.0	0.7	295	27.1	27.1	8.3	8.3	30.6	30.6	106.1	106.2	7.1	7.1	4.6	4.6	8	8	85	85				<0.2	0.6	<0.2	0.6					
					Middle	3.8	0.7	302	26.9	26.9	8.3	8.3	30.8	30.8	101.8	101.7	6.8	6.8	7.6	7.6	7.7	7.7	8	8				92	92	<0.2	0.6	<0.2	0.6			
						3.8	0.7	304	26.9	26.9	8.3	8.3	30.8	30.8	101.5	101.5	6.8	6.8	8.0	8.0	9	9	93	93				<0.2	0.6	<0.2	0.6					
					Bottom	6.5	0.5	307	26.8	26.8	8.3	8.3	30.8	30.8	100.1	100.1	6.7	6.7	10.7	10.7	8	8	94	94				<0.2	0.6	<0.2	0.6					
						6.5	0.6	309	26.8	26.8	8.3	8.3	30.8	30.8	100.1	100.1	6.7	6.7	10.6	10.6	9	9	98	98				<0.2	0.6	<0.2	0.6					
IM12	Cloudy	Moderate	17:43	8.1	Surface	1.0	0.6	293	26.9	26.9	8.4	8.4	30.8	30.8	108.1	108.1	7.3	7.3	4.7	4.7	8	8	87	87	90	821463	812060	<0.2	0.5	<0.2	0.6					
						1.0	0.7	302	26.8	26.8	8.4	8.4	30.8	30.8	108.1	108.1	7.3	7.3	4.8	4.8	7	7	87	87				<0.2	0.6	<0.2	0.5					
					Middle	4.1	0.6	289	26.7	26.7	8.3	8.3	30.9	30.9	104.7	103.2	6.8	6.8	7.8	7.8	7.1	7.1	7	7				88	88	<0.2	0.5	<0.2	0.5			
						4.1	0.6	292	26.7	26.7	8.3	8.3	30.9	30.9	101.6	103.2	6.8	6.8	7.8	7.8	6	6	91	91				<0.2	0.5	<0.2	0.5					
					Bottom	7.1	0.4	285	26.6	26.6	8.3	8.3	30.9	30.9	100.6	100.7	6.8	6.8	9.1	9.1	5	5	93	93				<0.2	0.5	<0.2	0.5					
						7.1	0.4	292	26.6	26.6	8.3	8.3	30.9	30.9	100.7	100.7	6.8	6.8	8.8	8.8	6	6	93	93				<0.2	0.5	<0.2	0.5					
SR1A	Cloudy	Moderate	18:05	5.0	Surface	1.0	-	-	26.8	26.8	8.3	8.3	30.7	30.7	101.3	101.3	6.8	6.8	5.1	5.1	6	6	-	-	-	819979	812656	-	-	-	-					
						1.0	-	-	26.8	26.8	8.3	8.3	30.7	30.7	101.3	101.3	6.8	6.8	5.1	5.1	6	6	-	-				-	-							
					Middle	2.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-	-	-	-	-	-	
						2.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-	-	-	-	-	-	
					Bottom	4.0	-	-	26.7	26.7	8.3	8.3	30.9	30.9	100.5	100.5	6.8	6.8	5.6	5.6	6	6	-	-				-	-	-	-	-	-	-	-	
						4.0	-	-	26.6	26.6	8.3	8.3	30.9	30.9	100.4	100.4	6.8	6.8	5.7	5.7	6	6	-	-				-	-	-	-	-	-	-		
SR2	Cloudy	Moderate	18:19	4.2	Surface	1.0	0.2	92	26.7	26.7	8.3	8.3	30.9	30.9	101.3	101.3	6.8	6.8	12.9	12.9	18	18	91	91	93	821468	814181	<0.2	0.5	<0.2	0.5					
						1.0	0.2	92	26.7	26.7	8.3	8.3	30.9	30.9	101.3	101.3	6.8	6.8	12.7	12.7	18	18	92	92				<0.2	0.5	<0.2	0.5					
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-	-	-	-	-	-	
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-	-	-	-	-	-	
					Bottom	3.2	0.2	91	26.7	26.7	8.3	8.3	30.9	30.9	100.4	100.4	6.8	6.8	15.3	15.3	16	16	93	93				<0.2	0.4	<0.2	0.5					
						3.2	0.2	92	26.7	26.7	8.3	8.3	30.9	30.9	100.4	100.4	6.8	6.8	15.9	15.9	15	15	94	94				<0.2	0.5	<0.2	0.5					
SR3	Cloudy	Moderate	16:52	8.5	Surface	1.0	0.3	219	27.3	27.3	8.3	8.3	29.6	29.6	99.6	99.5	6.7	6.7	8.6	8.6	12	12	-	-	-	822127	807573	-	-	-	-					
						1.0	0.3	223	27.2	27.2	8.3	8.3	29.7	29.6	99.4	99.5	6.7	6.7	8.7	8.7	11	11	-	-				-	-							
					Middle	4.3	0.2	240	27.1	27.1	8.3	8.3	29.9	29.9	98.0	98.0	6.6	6.6	10.7	10.7	10	10	-	-				-	-	-	-	-				
						4.3	0.2	248	27.1	27.1	8.3	8.3	29.9	29.9	97.9	98.0	6.6	6.6	10.9	10.9	9	9	-	-				-	-	-	-					
					Bottom	7.5	0.2	286	27.0	27.0	8.3	8.3	30.0	29.9	97.2	97.2	6.6	6.6	14.9	14.9	7	7	-	-				-	-	-	-					
						7.5	0.2	305	27.1	27.1	8.3	8.3	29.9	29.9	97.2	97.2	6.5	6.5	14.8	14.8	8	8	-	-				-	-	-	-					
SR4A	Fine	Calm	18:05	8.6	Surface	1.0	0.2	249	27.1	27.1	8.2	8.2	33.0	33.0	106.1	106.1	7.0	7.0	5.6	5.6	10	10	-	-	-	817211	807825	-	-	-	-					
						1.0	0.2	272	27.1	27.1	8.2	8.2	33.0	33.0	106.1	106.1	7.0	7.0	5.7	5.7	10	10	-	-				-	-							
					Middle	4.3	0.2	242	27.1	27.1	8.2	8.2	33.0	33.0	105.8	105.9	7.0	7.0	5.8	5.8	5.9	5.9	-	-				-	-	-	-					
						4.3	0.2	260	27.1	27.1	8.2	8.2	33.0	33.0	106.0	106.0	7.0	7.0	5.7	5.7	13	13	-	-				-	-							
					Bottom	7.6	0.2	248	27.1	27.1	8.2	8.2	33.0	33.0	104.9	104.9	6.9	6.9	6.3	6.3	14	14	-	-				-	-	-	-					
						7.6	0.2	249	27.1	27.1	8.2	8.2	33.0	33.0	104.9	104.9	6.9	6.9	6.3	6.3	14	14	-	-				-	-	-	-					
SR5A	Fine	Calm	18:26	3.3	Surface	1.0	0.1	273	27.2	27.2	8.2	8.2	32.7	32.7	104.3	104.3	6.9	6.9	3.4	3.4	8	8	-	-	-	816614	810692	-	-	-	-					
						1.0	0.1	289	27.2	27.2	8.2	8.2	32.7	32.7	104.3	104.3	6.9	6.9	3.4	3.4	8	8	-	-				-	-							



Expansion of Hong Kong International Airport into a Three-Runway System  
Water Quality Monitoring

Water Quality Monitoring Results on 17 October 20 during Mid-Ebb Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)	Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity (NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)			
								Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA
C1	Cloudy	Rough	12:35	8.4	Surface	1.0	0.4	202	26.3	26.3	8.3	8.3	32.0	32.0	91.6	91.6	6.2	6.2	12.0	12.0	13	13	85	85	87	815636	804259	<0.2	0.6	<0.2	0.6
						1.0	0.4	209	26.3	26.3	8.3	8.3	32.0	32.0	91.6	91.6	6.2	6.2	12.0	12.0	14	14	86	86				<0.2	0.6		
						4.2	0.3	208	26.3	26.3	8.3	8.3	32.0	32.0	91.9	92.0	6.2	6.2	11.4	11.4	14	14	87	87				<0.2	0.6		
					Middle	4.2	0.4	228	26.3	26.3	8.3	8.3	32.0	32.0	92.0	92.0	6.2	6.2	11.9	11.9	16	16	88	88				<0.2	0.6		
						7.4	0.3	209	26.3	26.3	8.3	8.3	32.0	32.0	93.5	93.7	6.3	6.3	12.1	12.1	18	18	89	89				<0.2	0.5		
						7.4	0.3	222	26.3	26.3	8.3	8.3	32.0	32.0	93.8	93.8	6.3	6.3	12.1	12.1	19	19	89	89				<0.2	0.5		
					Bottom	1.0	0.6	163	27.0	27.0	8.2	8.2	32.1	32.1	96.3	96.3	6.4	6.4	4.6	4.6	11	11	83	83				<0.2	0.7		
						1.0	0.6	173	27.0	27.0	8.2	8.2	32.1	32.1	96.3	96.3	6.4	6.4	4.6	4.6	11	11	82	82				<0.2	0.6		
						5.7	0.5	151	26.9	26.9	8.2	8.2	32.8	32.8	94.1	94.2	6.3	6.3	8.4	8.4	13	13	86	86				<0.2	0.7		
Middle	5.7	0.6	156	26.9	26.9	8.2	8.2	32.8	32.8	94.2	94.2	6.3	6.3	8.9	8.9	14	14	86	86	<0.2	0.7										
	10.4	0.3	134	26.8	26.8	8.2	8.2	33.1	33.1	92.9	92.9	6.2	6.2	14.0	14.0	15	15	91	91	<0.2	0.7										
	10.4	0.4	146	26.8	26.8	8.2	8.2	33.1	33.1	92.9	92.9	6.2	6.2	14.0	14.0	14	14	90	90	<0.2	0.5										
C2	Cloudy	Moderate	11:30	11.4	Surface	1.0	0.3	121	27.4	27.4	8.2	8.2	33.2	33.2	94.3	94.3	6.2	6.2	6.7	6.7	14	14	83	83	87	822120	817799	<0.2	0.4	<0.2	0.5
						1.0	0.3	133	27.4	27.4	8.2	8.2	33.2	33.2	94.3	94.3	6.2	6.2	6.7	6.7	15	15	83	83				<0.2	0.5		
						6.3	0.3	107	27.4	27.4	8.2	8.2	33.2	33.2	93.0	92.9	6.1	6.1	14.1	14.1	15	15	87	87				<0.2	0.5		
					Middle	6.3	0.3	107	27.4	27.4	8.2	8.2	33.2	33.2	92.7	92.9	6.1	6.1	14.2	14.2	16	16	87	87				<0.2	0.5		
						11.6	0.3	54	27.4	27.4	8.2	8.2	33.2	33.2	93.1	93.1	6.1	6.1	10.5	10.5	18	18	90	90				<0.2	0.5		
						11.6	0.3	54	27.4	27.4	8.2	8.2	33.2	33.2	93.1	93.1	6.1	6.1	10.5	10.5	18	18	91	91				<0.2	0.4		
					Bottom	1.0	0.1	173	26.3	26.3	8.3	8.3	31.4	31.4	94.5	94.5	6.4	6.4	9.7	9.7	9	9	87	87				<0.2	0.5		
						1.0	0.1	176	26.3	26.3	8.3	8.3	31.4	31.4	94.5	94.5	6.4	6.4	9.8	9.8	10	10	86	86				<0.2	0.5		
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-	88
Middle	4.5	0.1	196	26.0	26.0	8.3	8.3	31.5	31.5	95.1	95.3	6.5	6.5	9.2	9.2	11	11	90	90	<0.2	0.6										
	4.5	0.1	200	26.0	26.0	8.3	8.3	31.6	31.5	95.4	95.4	6.5	6.5	9.5	9.5	11	11	89	89	<0.2	0.5										
	1.0	0.2	173	26.3	26.3	8.3	8.3	31.2	31.2	93.9	93.9	6.4	6.4	7.8	7.8	10	10	85	85	<0.2	0.5										
Surface	1.0	0.2	187	26.3	26.3	8.3	8.3	31.2	31.2	93.8	93.8	6.4	6.4	7.8	7.8	10	10	85	85	<0.2	0.5										
	4.0	0.1	166	26.2	26.2	8.3	8.3	31.4	31.4	92.7	92.8	6.3	6.3	8.9	8.9	11	11	86	86	<0.2	0.6										
	4.0	0.1	170	26.2	26.2	8.3	8.3	31.4	31.4	92.8	92.8	6.3	6.3	8.4	8.4	12	12	87	87	<0.2	0.4										
Middle	7.0	0.1	155	26.0	26.0	8.3	8.3	31.5	31.5	93.6	93.8	6.4	6.4	8.6	8.6	12	12	89	89	<0.2	0.6										
	7.0	0.1	159	26.0	26.0	8.3	8.3	31.5	31.5	93.9	93.9	6.4	6.4	8.5	8.5	12	12	89	89	<0.2	0.5										
	1.0	0.2	158	26.3	26.3	8.3	8.3	31.4	31.4	91.5	91.5	6.2	6.2	10.1	10.1	13	13	85	85	<0.2	0.5										
Surface	1.0	0.2	159	26.3	26.3	8.3	8.3	31.4	31.4	91.4	91.4	6.2	6.2	10.2	10.2	13	13	86	86	<0.2	0.6										
	4.1	0.1	146	26.3	26.3	8.3	8.3	31.6	31.6	91.7	91.8	6.2	6.2	12.7	12.7	15	15	87	87	<0.2	0.6										
	4.1	0.1	157	26.3	26.3	8.3	8.3	31.6	31.6	91.8	91.8	6.2	6.2	12.3	12.3	14	14	86	86	<0.2	0.4										
Middle	7.1	0.1	121	26.2	26.2	8.3	8.3	31.7	31.7	92.5	92.6	6.3	6.3	13.9	13.9	15	15	89	89	<0.2	0.6										
	7.1	0.1	127	26.1	26.2	8.3	8.3	31.7	31.7	92.6	92.6	6.3	6.3	13.4	13.4	14	14	89	89	<0.2	0.5										
	1.0	0.2	164	26.3	26.3	8.3	8.3	31.3	31.3	91.9	91.9	6.2	6.2	13.1	13.1	11	11	86	86	<0.2	0.7										
Surface	1.0	0.2	170	26.3	26.3	8.3	8.3	31.3	31.3	91.8	91.8	6.2	6.2	13.3	13.3	11	11	85	85	<0.2	0.6										
	4.1	0.2	190	26.3	26.3	8.3	8.3	31.4	31.4	91.4	91.4	6.2	6.2	13.5	13.5	12	12	87	87	<0.2	0.7										
	4.1	0.2	195	26.3	26.3	8.3	8.3	31.4	31.4	91.4	91.4	6.2	6.2	13.7	13.7	11	11	87	87	<0.2	0.4										
Middle	7.2	0.1	179	26.3	26.3	8.3	8.3	31.5	31.5	93.2	93.3	6.3	6.3	14.9	14.9	12	12	89	89	<0.2	0.5										
	7.2	0.1	179	26.3	26.3	8.3	8.3	31.5	31.5	93.4	93.4	6.3	6.3	14.6	14.6	12	12	90	90	<0.2	0.5										
	1.0	0.2	220	26.4	26.4	8.3	8.3	31.0	31.0	94.5	94.5	6.4	6.4	8.4	8.4	10	10	85	85	<0.2	0.4										
Surface	1.0	0.2	231	26.4	26.4	8.3	8.3	31.0	31.0	94.4	94.4	6.4	6.4	8.6	8.6	8	8	86	86	<0.2	0.6										
	4.4	0.2	218	26.3	26.3	8.3	8.3	31.2	31.2	93.4	93.4	6.3	6.3	10.7	10.7	11	11	87	87	<0.2	0.6										
	4.4	0.2	232	26.3	26.3	8.3	8.3	31.2	31.2	93.4	93.4	6.3	6.3	10.9	10.9	12	12	87	87	<0.2	0.6										
Middle	7.8	0.2	195	26.3	26.3	8.3	8.3	31.2	31.2	94.8	94.9	6.4	6.4	12.5	12.5	14	14	89	89	<0.2	0.5										
	7.8	0.2	206	26.3	26.3	8.3	8.3	31.2	31.2	95.0	95.0	6.4	6.4	12.5	12.5	14	14	90	90	<0.2	0.5										
	1.0	0.2	247	26.5	26.5	8.3	8.3	30.6	30.6	95.1	95.1	6.4	6.4	7.4	7.4	8	8	85	85	<0.2	0.7										
Surface	1.0	0.2	251	26.4	26.4	8.3	8.3	30.6	30.6	95.0	95.0	6.4	6.4	7.4	7.4	8	8	86	86	<0.2	0.8										
	4.2	0.2	246	26.4	26.4	8.3	8.3	30.8	30.8	94.2	94.2	6.4	6.4	8.2	8.2	10	10	87	87	<0.2	0.7										
	4.2	0.2	260	26.4	26.4	8.3	8.3	30.8	30.8	94.2	94.2	6.4	6.4	8.5	8.5	9	9	87	87	<0.2	0.8										
Middle	7.4	0.1	215	26.3	26.3	8.3	8.3	30.9	30.9	96.1	96.1	6.5	6.5	12.6	12.6	11	11	90	90	<0.2	0.6										
	7.4	0.1	216	26.3	26.3	8.3	8.3	30.9	30.9	96.1	96.1	6.5	6.5	12.6	12.6	10	10	89	89	<0.2	0.7										
	1.0	0.2	236	26.4	26.4	8.4	8.4	30.9	30.9	95.3	95.2	6.5	6.5	7.1	7.1	9	9	85	85	<0.2	0.8										
Surface	1.0	0.2	256	26.4	26.4	8.4	8.4	30.9	30.9	95.1	95.1	6.4	6.4	7.2	7.2	10	10	86	86	<0.2	0.7										
	4.3	0.2	249	26.3	26.3	8.4	8.4	31.1	31.1	93.7	93.7	6.3	6.3	7.4	7.4	10	10														

Expansion of Hong Kong International Airport into a Three-Runway System

Water Quality Monitoring

Water Quality Monitoring Results on 17 October 20 during Mid-Ebb Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)	Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity (NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)				
								Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA	
IM9	Cloudy	Moderate	12:03	7.8	Surface	1.0	0.3	110	27.1	8.2	8.2	32.1	32.1	98.7	98.7	6.6	6.6	2.3	6	83	87	822076	808796	<0.2	0.7	<0.2	0.6					
						1.0	0.3	111	27.1	8.2	8.2	32.2	32.2	98.7	98.7	6.6	6.6	2.3	6	83	87	822076	808796	<0.2	0.6	<0.2	0.7					
						3.9	0.2	102	27.1	8.2	8.2	32.3	32.3	96.8	96.8	6.4	6.4	4.0	7	86	87	822076	808796	<0.2	0.6	<0.2	0.6					
					Middle	3.9	0.2	103	27.1	8.2	8.2	32.3	32.3	96.8	96.8	6.4	6.4	3.8	6	87	8	822076	808796	<0.2	0.6	<0.2	0.6					
						6.8	0.2	107	27.0	8.2	8.2	32.4	32.4	95.8	95.8	6.4	6.4	9.0	8	91	8	822076	808796	<0.2	0.8	<0.2	0.6					
						6.8	0.2	108	27.0	8.2	8.2	32.4	32.4	96.1	96.0	6.4	6.4	9.4	8	91	8	822076	808796	<0.2	0.6	<0.2	0.6					
					IM10	Cloudy	Moderate	12:11	7.5	Surface	1.0	0.7	112	27.1	8.2	8.2	32.1	32.1	98.9	98.9	6.6	6.6	2.8	11	83	87	822376	809798	<0.2	0.6	<0.2	0.7
											1.0	0.7	114	27.1	8.2	8.2	32.1	32.1	98.9	98.9	6.6	6.6	2.9	11	82	87	822376	809798	<0.2	0.7	<0.2	0.6
											3.8	0.6	106	27.0	8.2	8.2	32.5	32.5	95.4	95.4	6.3	6.3	9.8	9	87	87	822376	809798	<0.2	0.7	<0.2	0.6
Middle	3.8	0.6	106	27.0						8.2	8.2	32.5	32.5	95.3	95.3	6.3	6.3	9.8	9	88	9	822376	809798	<0.2	0.6	<0.2	0.6					
	6.5	0.5	104	27.0						8.2	8.2	32.7	32.7	94.6	94.7	6.3	6.3	11.7	9	91	9	822376	809798	<0.2	0.7	<0.2	0.7					
	6.5	0.5	109	27.0						8.2	8.2	32.7	32.7	94.7	94.7	6.3	6.3	11.9	8	91	9	822376	809798	<0.2	0.7	<0.2	0.7					
IM11	Cloudy	Moderate	12:20	7.8						Surface	1.0	0.9	127	27.2	8.2	8.2	32.4	32.4	98.7	98.7	6.5	6.5	2.3	12	83	87	822036	811471	<0.2	0.6	<0.2	0.6
											1.0	1.0	131	27.2	8.2	8.2	32.4	32.4	98.6	98.6	6.5	6.5	2.3	11	83	87	822036	811471	<0.2	0.6	<0.2	0.6
											3.9	0.9	119	27.2	8.2	8.2	32.6	32.6	95.4	95.4	6.3	6.3	3.8	9	87	8	822036	811471	<0.2	0.6	<0.2	0.6
					Middle	3.9	0.9	126	27.2	8.2	8.2	32.6	32.6	95.4	95.4	6.3	6.3	3.8	8	87	8	822036	811471	<0.2	0.6	<0.2	0.6					
						6.8	0.6	104	27.2	8.2	8.2	32.8	32.8	96.0	96.0	6.4	6.4	6.3	8	91	8	822036	811471	<0.2	0.6	<0.2	0.6					
						6.8	0.6	107	27.2	8.2	8.2	32.8	32.8	96.0	96.0	6.4	6.4	6.3	8	91	8	822036	811471	<0.2	0.6	<0.2	0.6					
					IM12	Fine	Moderate	12:26	8.7	Surface	1.0	0.6	105	27.2	8.2	8.2	32.2	32.2	99.6	99.6	6.6	6.6	1.6	6	82	87	821476	812068	<0.2	0.6	<0.2	0.6
											1.0	0.6	105	27.2	8.2	8.2	32.2	32.2	99.6	99.6	6.6	6.6	1.6	5	83	87	821476	812068	<0.2	0.6	<0.2	0.6
											4.4	0.6	112	27.3	8.2	8.2	32.7	32.7	96.4	96.5	6.4	6.4	3.4	7	86	87	821476	812068	<0.2	0.6	<0.2	0.6
Middle	4.4	0.6	113	27.3						8.2	8.2	32.7	32.7	96.5	96.5	6.4	6.4	3.5	7	87	8	821476	812068	<0.2	0.7	<0.2	0.6					
	7.7	0.4	102	27.2						8.2	8.2	32.9	32.9	95.7	95.8	6.3	6.3	8.1	8	90	8	821476	812068	<0.2	0.6	<0.2	0.6					
	7.7	0.4	110	27.2						8.2	8.2	32.9	32.9	95.8	95.8	6.3	6.3	8.2	7	91	8	821476	812068	<0.2	0.5	<0.2	0.5					
SR1A	Fine	Moderate	12:46	5.4						Surface	1.0	-	-	27.2	8.2	8.2	33.0	33.0	96.9	96.9	6.4	6.4	3.3	10	-	-	819976	812658	-	-	-	-
											1.0	-	-	27.2	8.2	8.2	33.0	33.0	96.8	96.8	6.4	6.4	3.4	11	-	-	819976	812658	-	-	-	-
											2.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	819976	812658	-	-
					Middle	2.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	819976	812658	-	-	-	-	-	-	
						4.4	-	-	27.1	8.2	8.2	33.0	33.0	96.4	96.5	6.4	6.4	3.0	12	-	-	-	-	819976	812658	-	-	-	-	-	-	
						4.4	-	-	27.1	8.2	8.2	33.0	33.0	96.5	96.5	6.4	6.4	3.0	11	-	-	-	-	819976	812658	-	-	-	-	-	-	
					SR2	Fine	Moderate	12:59	5.2	Surface	1.0	0.6	83	27.4	8.2	8.2	33.3	33.3	93.3	93.2	6.1	6.1	7.0	10	83	85	821478	814172	<0.2	0.4	<0.2	0.4
											1.0	0.6	89	27.4	8.2	8.2	33.3	33.3	93.1	93.1	6.1	6.1	6.2	10	83	85	821478	814172	<0.2	0.4	<0.2	0.4
											-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	821478	814172	<0.2	0.5
Middle	-	-	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	821478	814172	<0.2	0.5	<0.2	0.5			
	4.2	0.4	72	27.4						8.2	8.2	33.3	33.3	93.0	93.1	6.1	6.1	9.7	11	86	8	821478	814172	<0.2	0.5	<0.2	0.5					
	4.2	0.5	72	27.4						8.2	8.2	33.3	33.3	93.1	93.1	6.1	6.1	9.7	12	87	8	821478	814172	<0.2	0.5	<0.2	0.5					
SR3	Cloudy	Moderate	11:51	9.4						Surface	1.0	0.0	220	27.1	8.2	8.2	32.4	32.4	97.2	97.2	6.5	6.5	4.0	9	-	-	822155	807592	-	-	-	-
											1.0	0.0	224	27.1	8.2	8.2	32.4	32.4	97.2	97.2	6.5	6.5	4.0	10	-	-	822155	807592	-	-	-	-
											4.7	0.0	292	26.9	8.2	8.2	32.8	32.8	94.3	94.3	6.3	6.3	8.4	8	-	-	822155	807592	-	-	-	-
					Middle	4.7	0.0	305	26.9	8.2	8.2	32.8	32.8	94.3	94.3	6.3	6.3	8.5	9	-	-	822155	807592	-	-	-	-					
						8.4	0.1	88	26.9	8.2	8.2	33.0	33.0	93.8	93.8	6.2	6.2	10.9	8	-	-	822155	807592	-	-	-	-					
						8.4	0.1	94	26.9	8.2	8.2	33.0	33.0	93.7	93.8	6.2	6.2	11.1	8	-	-	822155	807592	-	-	-	-					
					SR4A	Cloudy	Moderate	12:58	8.0	Surface	1.0	0.2	67	26.3	8.3	8.3	31.4	31.4	92.1	92.1	6.2	6.2	10.6	14	-	-	817207	807793	-	-	-	-
											1.0	0.2	70	26.3	8.3	8.3	31.4	31.4	92.1	92.1	6.2	6.3	10.7	14	-	-	817207	807793	-	-	-	-
											4.0	0.2	81	26.3	8.3	8.3	31.4	31.4	92.6	92.7	6.3	6.3	11.2	14	-	-	817207	807793	-	-	-	-
Middle	4.0	0.2	82	26.3						8.3	8.3	31.4	31.4	92.7	92.7	6.3	6.3	11.2	15	-	-	817207	807793	-	-	-	-					
	7.0	0.1	74	26.2						8.3	8.3	31.5	31.5	93.7	93.8	6.4	6.4	11.8	17	-	-	817207	807793	-	-	-	-					
	7.0	0.2	77	26.1						8.3	8.3	31.5	31.5	93.8	93.8	6.4	6.4	11.9	17	-	-	817207	807793	-	-	-	-					
SR5A	Cloudy	Moderate	13:14	3.8						Surface	1.0	0.1	338	26.5	8.3	8.3	31.3	31.3	99.7	99.9	6.7	6.7	6.9	11	-	-	816576	810700	-	-	-	-
											1.0	0.1	311	26.5	8.3	8.3	31.3	31.3	100.0	100.0	6.8	6.8	6.8	12	-	-	816576	810700	-	-	-	-
											-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	816576	810700	-	-	-
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	816576	810700	-	-	-	-			
						2.8	0.1	9	26.2	8.3	8.3	31.4	31.4	101.3	101.5	6.9	6.9	6.7	14	-	-	816576	810700	-	-	-	-					
						2.8	0.1	9	26.2	8.3	8.3	31.5																				

Expansion of Hong Kong International Airport into a Three-Runway System  
Water Quality Monitoring

Water Quality Monitoring Results on 17 October 20 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)	Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity (NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)					
								Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA		
C1	Cloudy	Rough	07:06	8.2	Surface	1.0	0.5	203	25.9	25.9	8.3	8.3	31.9	31.9	94.5	94.5	6.4	6.4	20.0	28	85	88	815601	804244	<0.2	0.6	<0.2	0.6					
						1.0	0.5	216	25.9	8.3	8.3	31.9	31.9	94.5	94.5	6.4	6.4	19.7	26	86	88	<0.2	0.6	<0.2	0.6								
						4.1	0.5	180	25.8	8.3	8.3	31.8	31.8	94.6	94.6	6.4	6.4	20.2	30	87	88	<0.2	0.5	<0.2	0.5								
					Middle	4.1	0.5	192	25.8	8.3	8.3	31.8	31.8	94.6	94.6	6.4	6.4	20.1	30	88	88	<0.2	0.4	<0.2	0.4	0.5							
						7.2	0.3	172	25.8	8.3	8.3	31.7	31.7	94.6	94.6	6.4	6.4	17.8	31	89	88	<0.2	0.5	<0.2	0.5								
						7.2	0.3	179	25.8	8.3	8.3	31.7	31.7	94.6	94.6	6.4	6.4	17.8	30	90	88	<0.2	0.4	<0.2	0.4								
					C2	Fine	Moderate	07:47	11.2	Surface	1.0	0.5	3	26.9	26.9	8.2	8.2	32.9	32.9	96.1	96.1	6.4	6.4	9.9	19	86	90	825664	806928	<0.2	0.7	<0.2	0.8
											1.0	0.5	3	26.9	26.9	8.2	8.2	32.9	32.9	96.1	96.1	6.4	6.4	9.9	19	86	90	<0.2	0.6	<0.2	0.6		
											5.6	0.5	357	26.9	8.2	8.2	32.9	32.9	94.9	94.9	6.3	6.3	10.8	18	90	88	<0.2	0.8	<0.2	0.8			
Middle	5.6	0.6	328	26.9						8.2	8.2	32.9	32.9	94.9	94.9	6.3	6.3	10.8	18	90	88	<0.2	0.8	<0.2	0.8	0.8							
	10.2	0.6	19	26.9						8.2	8.2	33.0	33.0	94.4	94.4	6.3	6.3	12.1	17	94	88	<0.2	1.0	<0.2	1.0								
	10.2	0.6	19	26.9						8.2	8.2	33.0	33.0	94.4	94.4	6.3	6.3	12.0	16	93	85	<0.2	1.0	<0.2	1.0								
C3	Fine	Moderate	05:49	10.6						Surface	1.0	0.6	255	27.5	27.5	8.1	8.1	33.4	33.4	89.7	89.7	5.9	5.9	10.3	18	85	89	822106	817806	<0.2	0.7	<0.2	0.7
											1.0	0.6	264	27.5	8.1	8.1	33.5	33.5	88.6	88.6	5.8	5.8	10.5	17	85	89	<0.2	0.7	<0.2	0.7			
											5.3	0.7	261	27.4	8.1	8.1	33.5	33.5	88.6	88.6	5.8	5.8	9.1	15	89	89	<0.2	0.9	<0.2	0.9			
					Middle	5.3	0.8	277	27.4	8.1	8.1	33.5	33.5	88.6	88.6	5.8	5.8	9.1	15	89	89	<0.2	0.7	<0.2	0.7	0.7							
						9.6	0.5	263	27.5	8.1	8.1	33.5	33.5	87.5	87.5	5.7	5.7	16.4	15	93	88	<0.2	0.7	<0.2	0.7								
						9.6	0.5	288	27.5	8.1	8.1	33.5	33.5	87.5	87.5	5.7	5.7	16.9	15	92	85	<0.2	0.7	<0.2	0.7								
					IM1	Cloudy	Rough	07:26	5.8	Surface	1.0	0.2	159	26.2	26.2	8.3	8.3	31.4	31.4	92.7	92.7	6.3	6.3	8.5	10	87	89	817972	807140	<0.2	0.7	<0.2	0.8
											1.0	0.2	163	26.2	8.3	8.3	31.4	31.4	92.7	92.7	6.3	6.3	8.6	11	87	89	<0.2	0.8	<0.2	0.8			
											-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Middle	4.8	0.2	133	26.2						26.2	8.3	8.3	31.4	31.4	93.6	93.6	6.3	6.3	12.6	13	90	88	<0.2	0.8	<0.2	0.8	0.8						
	4.8	0.3	135	26.2						26.2	8.3	8.3	31.4	31.4	93.7	93.7	6.3	6.3	12.9	12	90	88	<0.2	0.7	<0.2	0.7							
	-	-	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	
IM2	Cloudy	Rough	07:33	8.0						Surface	1.0	0.2	189	26.3	26.3	8.3	8.3	31.3	31.3	91.3	91.3	6.2	6.2	15.7	18	87	88	818145	806174	<0.2	0.9	<0.2	0.9
											1.0	0.2	198	26.2	26.2	8.3	8.3	31.3	31.3	91.2	91.2	6.2	6.2	15.9	17	85	87	<0.2	0.9	<0.2	0.9		
											4.0	0.2	157	26.2	26.2	8.3	8.3	31.4	31.4	90.5	90.5	6.1	6.1	16.1	16	87	88	<0.2	1.0	<0.2	1.0		
					Middle	4.0	0.2	170	26.2	26.2	8.3	8.3	31.4	31.4	90.5	90.5	6.1	6.1	16.8	16	88	88	<0.2	0.9	<0.2	0.9	1.0						
						7.0	0.2	149	26.2	26.2	8.3	8.3	31.3	31.3	89.8	89.8	6.1	6.1	15.1	14	89	88	<0.2	1.0	<0.2	1.0							
						7.0	0.2	157	26.2	26.2	8.3	8.3	31.2	31.3	89.8	89.8	6.1	6.1	15.1	15	90	88	<0.2	1.0	<0.2	1.0							
					IM3	Cloudy	Rough	07:39	8.0	Surface	1.0	0.2	207	26.3	26.3	8.3	8.3	31.2	31.2	91.3	91.3	6.2	6.2	10.5	11	86	87	818779	805574	<0.2	1.1	<0.2	1.1
											1.0	0.2	222	26.3	26.3	8.3	8.3	31.2	31.2	91.2	91.2	6.2	6.2	10.7	12	85	86	<0.2	0.9	<0.2	0.9		
											4.0	0.2	219	26.2	26.2	8.3	8.3	31.3	31.3	91.3	91.3	6.2	6.2	12.4	11	86	87	<0.2	0.9	<0.2	0.9		
Middle	4.0	0.2	222	26.2						26.2	8.3	8.3	31.3	31.3	91.4	91.4	6.2	6.2	12.2	12	87	87	<0.2	1.1	<0.2	1.1	1.1						
	7.0	0.1	211	26.2						26.2	8.3	8.3	31.3	31.3	92.3	92.3	6.3	6.3	11.9	13	89	88	<0.2	1.1	<0.2	1.1							
	7.0	0.1	221	26.2						26.2	8.3	8.3	31.3	31.3	92.5	92.5	6.3	6.3	11.5	13	89	88	<0.2	1.2	<0.2	1.2							
IM4	Cloudy	Rough	07:48	7.9						Surface	1.0	0.6	239	26.3	26.3	8.3	8.3	30.9	30.9	92.9	92.9	6.3	6.3	10.0	14	86	88	819738	804620	<0.2	0.8	<0.2	0.8
											1.0	0.6	253	26.3	26.3	8.3	8.3	30.9	30.9	92.8	92.8	6.3	6.3	9.9	13	86	87	<0.2	0.7	<0.2	0.7		
											4.0	0.4	232	26.3	26.3	8.3	8.3	31.3	31.3	91.0	91.0	6.2	6.2	9.5	12	87	88	<0.2	0.8	<0.2	0.8		
					Middle	4.0	0.4	249	26.3	26.3	8.3	8.3	31.3	31.3	91.0	91.0	6.2	6.2	9.3	13	88	88	<0.2	0.8	<0.2	0.8	0.8						
						6.9	0.4	222	26.3	26.3	8.3	8.3	31.4	31.4	91.1	91.1	6.2	6.2	8.1	12	89	88	<0.2	0.8	<0.2	0.8							
						6.9	0.4	223	26.3	26.3	8.3	8.3	31.4	31.4	91.1	91.1	6.2	6.2	8.6	12	89	88	<0.2	0.8	<0.2	0.8							
					IM5	Cloudy	Rough	07:55	7.9	Surface	1.0	0.4	324	26.3	26.3	8.3	8.3	31.2	31.2	91.7	91.7	6.2	6.2	17.8	16	85	87	820736	804884	<0.2	0.8	<0.2	0.8
											1.0	0.4	344	26.3	26.3	8.3	8.3	31.2	31.2	91.7	91.7	6.2	6.2	17.2	16	86	87	<0.2	0.8	<0.2	0.8		
											4.0	0.5	359	26.3	26.3	8.3	8.3	31.3	31.3	91.9	91.9	6.2	6.2	20.7	18	87	88	<0.2	0.9	<0.2	0.9		
Middle	4.0	0.5	338	26.3						26.3	8.3	8.3	31.3	31.3	92.0	92.0	6.2	6.2	21.0	18	88	88	<0.2	1.0	<0.2	1.0	0.9						
	6.9	0.2	39	26.2						26.2	8.3	8.3	31.3	31.3	92.3	92.3	6.3	6.3	20.6	20	89	88	<0.2	1.1	<0.2	1.1							
	6.9	0.3	41	26.2						26.2	8.3	8.3	31.3	31.3	92.4	92.4	6.3	6.3	20.7	20	89	88	<0.2	1.0	<0.2	1.0							
IM6	Cloudy	Rough	08:03	8.0						Surface	1.0	0.3	280	26.4	26.4	8.3	8.3	30.6	30.6	94.4	94.4	6.4	6.4	8.3	12	87	88	821062	805832	<0.2	1.1	<0.2	1.1
											1.0	0.4	296	26.4	26.4	8.3	8.3	30.6	30.6	94.4	94.4	6.4	6.4	8.3	11	86	87	<0.2	0.9	<0.2	0.9		
											4.0	0.1	325	26.3	26.3	8.3	8.3	30.8	30.8	94.4	94.4	6.4	6.4	8.2	11	87	88	<0.2	0.9	<0.2	0.9		
					Middle	4.0	0.1	350	26.3	26.3	8.3	8.3	30.8	30.8	94.5	94.5	6.4	6.4	8.3	12	88	88	<0.2	0.9	<0.2	0.9	0.9						
						7.0	0.1	64	26.3	26.3	8.3	8.3	31.0	31.0	95.0	95.0	6.4	6.4	8.6	12	90	88	<0.2	0.8	<0.2	0.8							
						7.0	0.1	69	26.3	26.3	8.3	8.3	31.0	31.0	95.1																		

Expansion of Hong Kong International Airport into a Three-Runway System  
Water Quality Monitoring

Water Quality Monitoring Results on 17 October 20 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)	Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity (NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)			
								Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA		
IM9	Fine	Moderate	07:10	8.2	Surface	1.0	0.4	81	27.1	27.1	8.2	8.2	31.9	31.9	96.2	96.3	6.4	6.4	3.3	13	86	90	822114	808802	<0.2	0.9	0.8	0.8			
						1.0	0.4	83	27.1	27.1	8.2	8.2	31.9	31.9	96.3	96.3	6.4	6.4	3.2	12	86	90	<0.2	0.8	0.8	0.8					
					Middle	4.1	0.4	82	27.1	27.1	8.2	8.2	32.2	32.2	94.3	94.3	6.3	6.3	4.7	10	90	90	<0.2	0.8	0.8	0.8					
						4.1	0.4	87	27.1	27.1	8.2	8.2	32.2	32.2	94.2	94.2	6.3	6.3	4.8	10	89	90	<0.2	0.6	0.6	0.6					
					Bottom	7.2	0.4	74	27.0	27.0	8.2	8.2	32.7	32.7	94.0	94.0	6.2	6.2	7.7	10	94	94	<0.2	0.8	0.8	0.8					
						7.2	0.4	80	27.0	27.0	8.2	8.2	32.7	32.7	94.0	94.0	6.2	6.2	7.5	9	94	94	<0.2	0.7	0.7	0.7					
IM10	Fine	Moderate	07:02	8.2	Surface	1.0	0.8	307	27.2	27.2	8.2	8.2	33.0	33.0	94.8	94.8	6.3	6.3	6.2	13	86	90	822380	809776	<0.2	0.7	0.7	0.7			
						1.0	0.8	334	27.2	27.2	8.2	8.2	33.0	33.0	94.8	94.8	6.3	6.3	6.2	13	86	90	<0.2	0.6	0.6	0.6					
					Middle	4.1	0.7	310	27.2	27.2	8.2	8.2	33.0	33.0	94.6	94.6	6.2	6.2	6.8	14	90	90	<0.2	0.7	0.7	0.7					
						4.1	0.7	336	27.2	27.2	8.2	8.2	33.0	33.0	94.6	94.6	6.3	6.3	6.8	14	89	90	<0.2	0.6	0.6	0.6					
					Bottom	7.2	0.6	306	27.2	27.2	8.2	8.2	33.0	33.0	94.8	94.8	6.3	6.3	11.0	15	93	93	<0.2	0.7	0.7	0.7					
						7.2	0.6	320	27.2	27.2	8.2	8.2	33.0	33.0	94.6	94.6	6.3	6.3	11.1	16	94	94	<0.2	0.8	0.8	0.8					
IM11	Fine	Moderate	06:50	7.8	Surface	1.0	0.8	290	27.2	27.2	8.2	8.2	32.9	32.9	95.6	95.6	6.3	6.3	7.1	16	85	89	822067	811444	<0.2	0.7	0.6	0.6			
						1.0	0.9	294	27.2	27.2	8.2	8.2	32.9	32.9	95.6	95.6	6.3	6.3	7.1	15	86	89	<0.2	0.6	0.6	0.6					
					Middle	3.9	0.7	296	27.2	27.2	8.2	8.2	32.9	32.9	94.4	94.4	6.2	6.2	9.6	18	89	90	<0.2	0.6	0.6	0.6					
						3.9	0.7	315	27.2	27.2	8.2	8.2	32.9	32.9	94.3	94.3	6.2	6.2	9.7	17	90	90	<0.2	0.6	0.6	0.6					
					Bottom	6.8	0.4	294	27.2	27.2	8.2	8.2	32.9	32.9	94.1	94.1	6.2	6.2	10.7	18	93	93	<0.2	0.7	0.7	0.7					
						6.8	0.4	321	27.2	27.2	8.2	8.2	32.9	32.9	94.1	94.1	6.2	6.2	10.8	18	93	93	<0.2	0.7	0.7	0.7					
IM12	Fine	Moderate	06:42	8.9	Surface	1.0	0.9	279	27.3	27.3	8.2	8.2	33.0	33.0	94.6	94.6	6.2	6.2	6.5	11	86	90	821470	812053	<0.2	0.8	0.7	0.7			
						1.0	1.0	298	27.3	27.3	8.2	8.2	33.0	33.0	94.8	94.8	6.2	6.2	6.5	11	85	90	<0.2	0.7	0.7	0.7					
					Middle	4.5	0.7	279	27.3	27.3	8.2	8.2	33.0	33.0	93.6	93.6	6.2	6.2	8.1	13	90	90	<0.2	0.7	0.7	0.7					
						4.5	0.8	289	27.3	27.3	8.2	8.2	33.0	33.0	93.3	93.3	6.2	6.2	8.0	14	90	90	<0.2	0.6	0.6	0.6					
					Bottom	7.9	0.5	282	27.3	27.3	8.2	8.2	33.0	33.0	93.1	93.1	6.1	6.1	13.3	13	94	94	<0.2	0.7	0.7	0.7					
						7.9	0.6	299	27.3	27.3	8.2	8.2	33.0	33.0	93.1	93.1	6.1	6.1	13.3	14	94	94	<0.2	0.6	0.6	0.6					
SR1A	Fine	Moderate	06:21	5.5	Surface	1.0	-	-	27.0	27.0	8.2	8.2	33.0	33.0	93.7	93.8	6.2	6.2	3.8	11	-	-	819981	812656	-	-	-	-			
						1.0	-	-	27.0	27.0	8.2	8.2	33.0	33.0	93.8	93.8	6.2	6.2	3.9	12	-	-	-	-	-	-	-				
					Middle	2.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
						2.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					Bottom	4.5	-	-	27.0	27.0	8.2	8.2	33.0	33.0	92.9	92.9	6.2	6.2	5.1	9	-	-	-	-	-	-	-	-	-	-	-
						4.5	-	-	27.0	27.0	8.2	8.2	33.0	33.0	92.9	92.9	6.2	6.2	5.1	9	-	-	-	-	-	-	-	-	-	-	-
SR2	Fine	Moderate	06:09	5.0	Surface	1.0	0.1	11	27.2	27.2	8.2	8.2	33.0	33.0	94.1	94.1	6.2	6.2	8.1	16	85	88	821454	814149	<0.2	0.7	0.6	0.6			
						1.0	0.1	11	27.2	27.2	8.2	8.2	33.0	33.0	94.1	94.1	6.2	6.2	8.2	16	85	88	<0.2	0.6	0.6	0.6					
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					Bottom	4.0	0.1	14	27.2	27.2	8.2	8.2	33.0	33.0	93.2	93.3	6.2	6.2	10.4	18	90	90	<0.2	0.8	0.8	0.8					
						4.0	0.1	14	27.2	27.2	8.2	8.2	33.0	33.0	93.3	93.3	6.2	6.2	10.1	18	90	90	<0.2	0.7	0.7	0.7					
SR3	Fine	Moderate	07:24	8.2	Surface	1.0	0.2	64	27.0	27.0	8.2	8.2	32.3	32.3	96.3	96.3	6.4	6.4	8.1	10	-	-	822132	807592	-	-	-	-			
						1.0	0.2	68	27.0	27.0	8.2	8.2	32.3	32.3	96.2	96.2	6.4	6.4	8.1	8	-	-	-	-	-	-	-	-			
					Middle	4.1	0.2	76	26.9	26.9	8.2	8.2	32.9	32.9	95.4	95.4	6.3	6.3	10.3	12	-	-	-	-	-	-	-	-	-		
						4.1	0.2	82	26.9	26.9	8.2	8.2	32.9	32.9	95.3	95.3	6.3	6.3	10.2	13	-	-	-	-	-	-	-	-	-		
					Bottom	7.2	0.3	80	26.9	26.9	8.2	8.2	33.0	33.0	94.9	94.9	6.3	6.3	13.7	13	-	-	-	-	-	-	-	-	-		
						7.2	0.3	85	26.9	26.9	8.2	8.2	33.0	33.0	94.8	94.8	6.3	6.3	13.6	14	-	-	-	-	-	-	-	-	-		
SR4A	Cloudy	Moderate	06:42	8.5	Surface	1.0	0.5	239	26.2	26.2	8.3	8.3	31.4	31.4	92.0	92.0	6.2	6.2	16.2	18	-	-	817168	807816	-	-	-	-			
						1.0	0.5	262	26.2	26.2	8.3	8.3	31.4	31.4	91.9	91.9	6.2	6.2	16.6	19	-	-	-	-	-	-	-				
					Middle	4.3	0.4	216	26.2	26.2	8.3	8.3	31.4	31.4	91.8	91.8	6.2	6.2	16.9	20	-	-	-	-	-	-	-	-			
						4.3	0.4	237	26.2	26.2	8.3	8.3	31.4	31.4	91.8	91.8	6.2	6.2	16.0	20	-	-	-	-	-	-	-	-			
					Bottom	7.5	0.3	214	26.2	26.2	8.3	8.3	31.4	31.4	91.9	91.9	6.2	6.2	18.0	21	-	-	-	-	-	-	-	-			
						7.5	0.4	223	26.2	26.2	8.3	8.3	31.4	31.4	91.9	91.9	6.2	6.2	17.8	21	-	-	-	-	-	-	-	-			
SR5A	Cloudy	Moderate	06:23	3.0	Surface	1.0	0.4	271	26.3	26.3	8.3	8.3	31.2	31.2	92.1	92.1	6.2	6.2	8.9	14	-	-	816604	810706	-	-	-	-			
						1.0	0.4	288	26.3	26.3	8.3	8.3	31.2	31.2	92.1	92.1	6.2	6.2	8.8	14	-	-	-	-	-	-	-				
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
					Bottom	2.0	0.2	227	26.3	26.3	8.3	8.3	31.2	31.2	91.9	91.9	6.2	6.2	9.8	12	-	-	-	-	-	-	-	-			
						2.0	0.2	236	26.3	26.3	8.3	8.3	31.2	31.2	91.8	91.8	6.2	6.2	9.4	11	-	-	-	-	-	-	-	-			
SR6A	Cloudy	Moderate	05:54	4.3	Surface	1.0	0.1	190	26.5	26.5	8.3	8.3	31.0	31.0	93.4	93.4	6.3														

Expansion of Hong Kong International Airport into a Three-Runway System

Water Quality Monitoring

Water Quality Monitoring Results on 20 October 20 during Mid-Ebb Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)	Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity (NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)								
								Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA					
C1	Sunny	Rough	14:55	8.6	Surface	1.0	0.5	126	25.8	25.8	8.3	8.3	30.1	30.1	94.6	94.6	6.5	6.5	7.6	7.6	5	87	87	90	815636	804227	<0.2	1.4	<0.2	1.6						
						1.0	0.5	128	25.8	8.3	8.3	30.1	30.1	94.5	94.5	6.5	6.5	7.6	7.6	6	87	87	90	<0.2			1.4	<0.2	1.5							
						4.3	0.3	120	25.6	8.3	8.3	31.0	31.1	91.1	91.1	6.2	6.2	8.4	8.4	9	91	91	90	<0.2			1.4	<0.2	1.5							
					Middle	4.3	0.4	125	25.7	25.7	8.3	8.3	31.2	31.1	91.0	91.0	6.2	6.2	8.4	8.4	8	91	91	90			<0.2	1.4	<0.2	1.5						
						7.6	0.1	174	25.7	25.7	8.2	8.2	32.0	32.0	91.6	91.6	6.2	6.3	9.3	9.3	10	92	92	90			<0.2	1.3	<0.2	1.5						
						7.6	0.1	187	25.7	25.7	8.2	8.2	32.0	32.0	92.0	92.0	6.3	6.3	9.4	9.4	9	93	93	90			<0.2	1.3	<0.2	1.5						
					C2	Cloudy	Rough	13:50	12.7	Surface	1.0	0.2	166	26.5	26.5	8.2	8.2	32.2	32.2	96.7	96.6	6.5	6.5	6.1			10	86	86	88	825659	806948	<0.2	0.6	<0.2	0.7
											1.0	0.2	175	26.5	26.5	8.2	8.2	32.2	32.2	96.5	96.5	6.5	6.2	9			85	85	88	<0.2			0.6	<0.2	0.7	
											6.4	0.2	170	26.5	26.5	8.2	8.2	32.6	32.6	95.1	95.1	6.4	6.4	9.4			9.4	9	88	88			88	<0.2	0.8	<0.2
Middle	6.4	0.2	175	26.5						26.5	8.2	8.2	32.6	32.6	95.1	95.1	6.4	6.4	9.4	9.4	10	87	87	90	<0.2	0.7	<0.2	0.7								
	11.7	0.3	164	26.4						26.4	8.1	8.1	32.6	32.6	95.8	95.8	6.4	6.4	13.6	13.6	12	90	90	90	<0.2	0.6	<0.2	0.6								
	11.7	0.3	177	26.4						26.4	8.1	8.1	32.6	32.6	95.8	95.8	6.4	6.4	13.6	13.6	12	90	90	90	<0.2	0.6	<0.2	0.6								
C3	Cloudy	Moderate	15:44	12.8						Surface	1.0	0.4	67	27.0	27.0	8.2	8.2	33.2	33.2	88.9	88.9	5.9	5.9	6.9	10	86	86	88	822118	817824			<0.2	0.6	<0.2	0.5
											1.0	0.5	70	27.0	27.0	8.2	8.2	33.2	33.2	88.9	88.9	5.9	6.2	9	87	87	88	<0.2					0.6	<0.2	0.5	
											6.4	0.5	91	26.9	26.9	8.1	8.1	33.4	33.4	87.6	87.6	5.8	5.8	7.8	7.8	11	88	88					88	<0.2	0.6	<0.2
					Middle	6.4	0.5	97	26.9	26.9	8.1	8.1	33.4	33.4	87.6	87.6	5.8	5.8	7.8	7.8	10	89	89	90	<0.2	0.6	<0.2	0.5								
						11.8	0.5	92	26.8	26.8	8.1	8.1	33.6	33.6	86.4	86.4	5.7	5.7	12.5	12.5	11	90	90	90	<0.2	0.5	<0.2	0.5								
						11.8	0.5	97	26.8	26.8	8.1	8.1	33.6	33.6	86.4	86.4	5.7	5.7	12.5	12.5	12	90	90	90	<0.2	0.5	<0.2	0.5								
					IM1	Sunny	Rough	14:34	5.5	Surface	1.0	0.3	175	26.0	26.0	8.3	8.3	30.6	30.6	96.2	96.2	6.6	6.6	8.5	7	87	87	89			817940	807140	<0.2	1.1	<0.2	1.3
											1.0	0.3	176	26.0	26.0	8.3	8.3	30.6	30.6	96.1	96.1	6.6	6.6	8.4	8	88	88	89					<0.2	1.1	<0.2	1.3
											-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					-	-	-	-
Middle	-	-	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	89	<0.2	-	<0.2			-			
	4.5	0.2	163	26.0						26.0	8.2	8.2	30.7	30.7	95.7	95.8	6.5	6.5	8.9	8.9	14	91	91	91	<0.2	1.6	<0.2	1.6								
	4.5	0.3	163	26.0						26.0	8.2	8.2	30.7	30.7	95.8	95.8	6.5	6.5	8.9	8.9	14	91	91	91	<0.2	1.6	<0.2	1.6								
IM2	Sunny	Rough	14:27	7.7						Surface	1.0	0.3	125	25.7	25.7	8.3	8.3	30.4	30.4	93.5	93.5	6.4	6.4	7.5	12	85	85	88	818186	806156			<0.2	2.0	<0.2	2.0
											1.0	0.4	129	25.7	25.7	8.3	8.3	30.4	30.4	93.4	93.4	6.4	6.4	7.6	12	88	88	88					<0.2	2.0	<0.2	2.0
											3.9	0.1	76	25.7	25.7	8.3	8.3	30.4	30.5	92.7	92.6	6.4	6.4	8.6	13	89	89	89					<0.2	1.9	<0.2	1.9
					Middle	3.9	0.1	77	25.7	25.7	8.3	8.3	30.5	30.5	92.5	92.6	6.4	6.4	8.8	14	89	89	89	<0.2	1.9	<0.2	1.9									
						6.7	0.0	158	25.6	25.6	8.3	8.2	30.8	30.8	92.6	92.9	6.4	6.4	9.6	16	90	90	90	<0.2	1.2	<0.2	1.2									
						6.7	0.0	172	25.6	25.6	8.2	8.2	30.8	30.8	93.2	92.9	6.4	6.4	9.7	16	85	85	85	<0.2	1.2	<0.2	1.2									
					IM3	Sunny	Rough	14:22	8.0	Surface	1.0	0.2	58	25.8	25.8	8.3	8.3	30.5	30.5	93.6	93.6	6.4	6.4	7.5	7	86	86	89			818766	805597	<0.2	1.3	<0.2	1.4
											1.0	0.2	60	25.8	25.8	8.3	8.3	30.5	30.5	93.6	93.6	6.4	6.4	7.6	8	89	89	89					<0.2	1.4	<0.2	1.4
											4.0	0.2	116	25.7	25.7	8.3	8.3	30.5	30.5	92.9	92.9	6.4	6.4	8.9	8	89	89	89					<0.2	1.2	<0.2	1.2
Middle	4.0	0.2	119	25.7						25.7	8.3	8.3	30.5	30.5	92.8	92.9	6.4	6.4	8.9	8	90	90	90	<0.2	1.2	<0.2	1.2									
	7.0	0.1	120	25.6						25.6	8.3	8.3	30.9	30.9	91.3	91.6	6.3	6.3	11.4	8	90	90	90	<0.2	1.3	<0.2	1.3									
	7.0	0.1	129	25.6						25.6	8.3	8.3	30.9	30.9	91.8	91.6	6.3	6.3	11.5	9	85	85	85	<0.2	1.3	<0.2	1.3									
IM4	Sunny	Rough	14:13	8.9						Surface	1.0	0.1	130	25.7	25.7	8.3	8.3	30.7	30.7	92.7	92.7	6.4	6.4	10.2	10	86	86	88	819719	804589			<0.2	1.0	<0.2	1.0
											1.0	0.1	130	25.7	25.7	8.3	8.3	30.7	30.7	92.7	92.7	6.4	6.4	10.3	10	86	86	88					<0.2	1.0	<0.2	1.0
											4.5	0.1	133	25.7	25.7	8.3	8.3	30.7	30.7	92.2	92.2	6.3	6.3	11.2	8	88	88	88					<0.2	0.9	<0.2	0.9
					Middle	4.5	0.1	133	25.7	25.7	8.3	8.3	30.7	30.7	92.2	92.2	6.3	6.3	11.4	9	89	89	89	<0.2	1.0	<0.2	1.0									
						7.9	0.2	164	25.7	25.7	8.3	8.3	30.7	30.7	92.1	92.2	6.3	6.3	12.1	8	90	90	90	<0.2	1.0	<0.2	1.0									
						7.9	0.2	180	25.7	25.7	8.3	8.3	30.7	30.7	92.2	92.2	6.3	6.3	12.2	7	90	90	90	<0.2	0.9	<0.2	0.9									
					IM5	Sunny	Rough	14:06	8.4	Surface	1.0	0.1	333	25.8	25.8	8.3	8.3	30.5	30.4	93.7	93.7	6.4	6.4	9.9	8	85	85	88			820749	804878	<0.2	1.0	<0.2	0.9
											1.0	0.1	335	25.8	25.8	8.3	8.3	30.4	30.4	93.6	93.7	6.4	6.4	9.9	8	88	88	88					<0.2	1.0	<0.2	0.9
											4.2	0.2	338	25.7	25.7	8.3	8.3	30.7	30.7	91.3	91.3	6.3	6.3	10.1	8	88	88	88					<0.2	1.0	<0.2	1.0
Middle	4.2	0.2	311	25.7						25.7	8.3	8.3	30.7	30.7	91.3	91.3	6.3	6.3	10.2	9	88	88	88	<0.2	1.0	<0.2	1.0									
	7.4	0.3	264	25.7						25.7	8.2	8.2	30.7	30.7	92.2	92.3	6.3	6.3	12.4	10	89	89	89	<0.2	0.9	<0.2	0.9									
	7.4	0.3	282	25.7						25.7	8.2	8.2	30.7	30.7	92.3	92.3	6.3	6.3	12.6	9	89	89	89	<0.2	0.9	<0.2	0.9									
IM6	Sunny	Rough	13:58	8.2						Surface	1.0	0.5	120	26.1	26.1	8.3	8.3	30.2	30.2	94.5	94.5	6.5	6.5	7.6	8	86	86	89	821078	805821			<0.2	1.1	<0.2	1.2
											1.0	0.5	121	26.1	26.1	8.3	8.3	30.2	30.2	94.4	94.5	6.5	6.4	7.6	8	89	89	89					<0.2	1.2	<0.2	1.2
											4.1	0.2	165	25.8	25.8	8.3	8.3																			



Expansion of Hong Kong International Airport into a Three-Runway System  
Water Quality Monitoring

Water Quality Monitoring Results on 20 October 20 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)	Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity (NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)			
								Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA
C1	Sunny	Rough	10:08	8.2	Surface	1.0	0.5	82	25.6	25.6	8.3	8.3	31.1	31.1	91.7	91.7	6.3	6.3	10.0	10.0	7	7	87	87	91	815602	804270	<0.2	<0.2	1.1	1.1
						1.0	0.5	88	25.6	25.6	8.3	8.3	31.1	31.1	91.6	91.6	6.3	6.3	10.1	10.1	7	7	87	87				<0.2	<0.2	1.0	1.0
						4.1	0.5	72	25.6	25.6	8.3	8.3	31.2	31.2	91.0	91.0	6.2	6.2	10.4	10.4	8	8	91	91				<0.2	<0.2	0.9	0.9
					4.1	0.5	77	25.6	25.6	8.3	8.3	31.2	31.2	91.0	91.0	6.2	6.2	10.6	10.6	9	9	91	91	<0.2				<0.2	1.0	1.0	
					7.2	0.5	63	25.6	25.6	8.3	8.3	31.2	31.2	91.0	91.0	6.2	6.2	12.0	12.0	10	10	94	94	<0.2				<0.2	1.1	1.1	
					7.2	0.5	67	25.6	25.6	8.3	8.3	31.2	31.2	91.0	91.0	6.2	6.2	12.0	12.0	8	8	95	95	<0.2				<0.2	1.1	1.1	
					1.0	0.4	21	26.6	26.6	8.1	8.1	31.2	31.2	94.7	94.7	6.4	6.4	3.2	3.2	6	6	86	86	<0.2				<0.2	0.8	0.8	
					1.0	0.4	22	26.6	26.6	8.1	8.1	31.2	31.2	94.8	94.8	6.4	6.4	3.3	3.3	6	6	88	88	<0.2				<0.2	0.9	0.9	
					6.6	0.4	1	26.6	26.6	8.1	8.1	31.4	31.4	93.9	93.9	6.3	6.3	4.9	4.9	8	8	89	89	<0.2				<0.2	0.9	0.9	
6.6	0.4	1	26.6	26.6	8.1	8.1	31.4	31.4	93.9	93.9	6.3	6.3	4.9	4.9	9	9	88	88	<0.2	<0.2	0.8	0.8									
12.2	0.4	349	26.6	26.6	8.1	8.1	31.5	31.5	94.6	94.6	6.4	6.4	5.8	5.8	9	9	90	90	<0.2	<0.2	0.9	0.9									
12.2	0.4	321	26.6	26.6	8.1	8.1	31.5	31.5	94.6	94.6	6.4	6.4	5.8	5.8	10	10	91	91	<0.2	<0.2	0.9	0.9									
C2	Cloudy	Moderate	11:02	13.2	Surface	1.0	0.5	277	26.7	26.7	8.2	8.2	32.9	32.9	90.4	90.4	6.0	6.0	3.6	3.6	13	13	86	86	89	825703	806930	<0.2	<0.2	0.8	0.8
						1.0	0.5	304	26.7	26.7	8.2	8.2	32.9	32.9	90.4	90.4	6.0	6.0	3.6	3.6	14	14	87	87				<0.2	<0.2	0.8	0.8
						5.7	0.4	281	26.7	26.7	8.1	8.1	32.9	32.9	89.5	89.5	6.0	6.0	19.4	19.4	11	11	88	88				<0.2	<0.2	0.8	0.8
					5.7	0.5	286	26.7	26.7	8.1	8.1	32.9	32.9	89.5	89.5	6.0	6.0	19.4	19.4	12	12	88	88	<0.2				<0.2	0.8	0.8	
					10.3	0.3	277	26.7	26.7	8.1	8.1	32.9	32.9	89.6	89.6	6.0	6.0	20.1	20.1	10	10	89	89	<0.2				<0.2	0.8	0.8	
					10.3	0.4	285	26.7	26.7	8.1	8.1	32.9	32.9	89.6	89.6	6.0	6.0	20.4	20.4	9	9	90	90	<0.2				<0.2	0.9	0.9	
					1.0	0.1	113	25.7	25.7	8.3	8.3	31.0	31.0	91.6	91.6	6.3	6.3	9.5	9.5	11	11	88	88	<0.2				<0.2	1.1	1.1	
					1.0	0.1	117	25.7	25.7	8.3	8.3	31.0	31.0	91.6	91.6	6.3	6.3	9.5	9.5	10	10	88	88	<0.2				<0.2	1.1	1.1	
					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	89	817959
4.4	0.1	14	25.6	25.6	8.3	8.3	31.0	31.0	90.9	90.9	6.2	6.2	11.9	11.9	9	9	90	90	<0.2	<0.2	1.1	1.1									
4.4	0.1	14	25.6	25.6	8.3	8.3	31.0	31.0	91.1	91.1	6.3	6.3	12.0	12.0	8	8	90	90	<0.2	<0.2	1.1	1.1									
IM2	Sunny	Moderate	10:34	7.2	Surface	1.0	0.2	8	25.8	25.8	8.3	8.3	30.4	30.4	92.9	92.8	6.4	6.4	11.0	11.0	16	16	86	86	90	818151	806156	<0.2	<0.2	1.1	1.1
						1.0	0.2	8	25.7	25.7	8.3	8.3	30.4	30.4	92.7	92.8	6.4	6.4	11.0	11.0	16	16	87	87				<0.2	<0.2	1.1	1.1
						3.6	0.2	348	25.7	25.7	8.3	8.3	30.5	30.5	91.8	91.8	6.3	6.3	12.2	12.2	15	15	90	90				<0.2	<0.2	1.0	1.0
					3.6	0.2	320	25.7	25.7	8.3	8.3	30.5	30.5	91.8	91.8	6.3	6.3	12.2	12.2	14	14	90	90	<0.2				<0.2	1.0	1.0	
					6.2	0.2	323	25.7	25.7	8.3	8.3	30.6	30.6	91.8	91.8	6.3	6.3	13.3	13.3	11	11	93	93	<0.2				<0.2	1.2	1.2	
					6.2	0.2	325	25.7	25.7	8.2	8.2	30.6	30.6	92.1	92.0	6.3	6.3	13.4	13.4	12	12	94	94	<0.2				<0.2	1.1	1.1	
					1.0	0.5	5	25.7	25.7	8.3	8.3	30.3	30.3	92.7	92.6	6.4	6.4	12.4	12.4	16	16	86	86	<0.2				<0.2	1.1	1.1	
					1.0	0.5	5	25.7	25.7	8.3	8.3	30.3	30.3	92.5	92.6	6.4	6.4	12.5	12.5	16	16	87	87	<0.2				<0.2	1.1	1.1	
					3.8	0.3	2	25.6	25.6	8.3	8.3	30.5	30.5	91.6	91.6	6.3	6.3	13.0	13.0	14	14	90	90	<0.2				<0.2	0.9	0.9	
3.8	0.3	2	25.6	25.6	8.3	8.3	30.5	30.5	91.6	91.6	6.3	6.3	13.1	13.1	14	14	90	90	<0.2	<0.2	0.8	0.8									
6.5	0.2	354	25.6	25.6	8.3	8.3	30.5	30.5	91.6	91.6	6.3	6.3	13.5	13.5	12	12	94	94	<0.2	<0.2	1.0	1.0									
6.5	0.3	326	25.6	25.6	8.3	8.3	30.5	30.5	91.7	91.7	6.3	6.3	13.7	13.7	13	13	93	93	<0.2	<0.2	0.9	0.9									
IM4	Sunny	Moderate	10:52	8.6	Surface	1.0	0.5	358	25.6	25.6	8.3	8.3	30.3	30.3	91.5	91.5	6.3	6.3	10.5	10.5	9	9	83	83	89	819723	804597	<0.2	<0.2	0.9	0.9
						1.0	0.5	329	25.6	25.6	8.3	8.3	30.4	30.4	91.4	91.4	6.3	6.3	10.5	10.5	8	8	84	84				<0.2	<0.2	0.9	0.9
						4.3	0.5	1	25.6	25.6	8.3	8.3	30.4	30.4	91.1	91.1	6.3	6.3	11.2	11.2	8	8	91	91				<0.2	<0.2	0.8	0.8
					4.3	0.5	1	25.6	25.6	8.3	8.3	30.4	30.4	91.1	91.1	6.3	6.3	11.3	11.3	9	9	91	91	<0.2				<0.2	0.8	0.8	
					7.6	0.5	2	25.6	25.6	8.2	8.2	30.4	30.4	91.5	91.5	6.3	6.3	12.9	12.9	9	9	93	93	<0.2				<0.2	1.2	1.2	
					7.6	0.5	2	25.6	25.6	8.2	8.2	30.4	30.4	91.8	91.7	6.3	6.3	12.9	12.9	10	10	94	94	<0.2				<0.2	1.2	1.2	
					1.0	0.6	8	25.7	25.7	8.3	8.3	30.4	30.4	91.7	91.7	6.3	6.3	10.1	10.1	12	12	85	85	<0.2				<0.2	1.0	1.0	
					1.0	0.6	8	25.7	25.7	8.3	8.3	30.4	30.4	91.7	91.7	6.3	6.3	10.3	10.3	11	11	86	86	<0.2				<0.2	1.2	1.2	
					4.0	0.7	356	25.7	25.7	8.2	8.2	30.4	30.4	91.7	91.7	6.3	6.3	11.4	11.4	11	11	87	87	<0.2				<0.2	1.8	1.8	
4.0	0.7	328	25.7	25.7	8.2	8.2	30.4	30.4	91.7	91.7	6.3	6.3	11.5	11.5	10	10	90	90	<0.2	<0.2	1.9	1.9									
7.0	0.5	12	25.7	25.7	8.2	8.2	30.4	30.4	92.4	92.5	6.4	6.4	12.7	12.7	10	10	93	93	<0.2	<0.2	1.6	1.6									
7.0	0.5	12	25.7	25.7	8.2	8.2	30.4	30.4	92.6	92.6	6.4	6.4	12.7	12.7	9	9	94	94	<0.2	<0.2	1.8	1.8									
IM6	Sunny	Rough	11:06	7.8	Surface	1.0	0.0	72	25.9	25.9	8.3	8.3	30.0	30.1	92.4	92.4	6.3	6.3	8.3	8.3	10	10	87	87	90	821059	805842	<0.2	<0.2	1.5	1.5
						1.0	0.0	76	25.9	25.9	8.3	8.3	30.1	30.1	92.3	92.3	6.3	6.3	8.5	8.5	10	10	87	87				<0.2	<0.2	1.6	1.6
						3.9	0.2	103	25.8	25.8	8.3	8.3	30.5	30.5	91.6	91.6	6.3	6.3	9.9	9.9	11	11	90	90				<0.2	<0.2	1.8	1.8
					3.9	0.2	107	25.8	25.8	8.3	8.3	30.5	30.5	91.5	91.5	6.3	6.3	10.2	10.2	10	10										

Expansion of Hong Kong International Airport into a Three-Runway System  
Water Quality Monitoring

Water Quality Monitoring Results on 20 October 20 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)	Current		Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity (NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)											
						Speed (m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA								
						Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA								
IM9	Cloudy	Moderate	10:26	7.2	Surface	1.0	0.1	100	26.4	26.4	8.2	8.2	32.3	32.3	93.8	93.8	6.3	6.3	6.9	6.9	15	15	85	85	88	88	822103	808813	<0.2	0.8	0.8	0.8							
						1.0	0.1	101	26.4	26.4	8.2	8.2	32.3	32.3	93.7	93.7	6.3	6.3	7.0	7.0	14	14	87	87	88	88	822103	808813	<0.2	0.8	0.8	0.8							
						3.6	0.1	93	26.4	26.4	8.2	8.2	32.3	32.3	93.5	93.5	6.3	6.3	8.7	8.7	12	12	87	87	88	88	822103	808813	<0.2	0.8	0.8	0.8							
					Middle	3.6	0.1	99	26.4	26.4	8.2	8.2	32.3	32.3	93.5	93.5	6.3	6.3	8.7	8.7	13	13	88	88	88	88	822103	808813	<0.2	0.8	0.8	0.8							
						6.2	0.2	85	26.3	26.3	8.1	8.1	32.3	32.3	95.3	95.3	6.4	6.4	11.9	11.9	12	12	90	90	88	88	822103	808813	<0.2	0.7	0.7	0.7							
						6.2	0.2	92	26.3	26.3	8.1	8.1	32.3	32.3	95.3	95.3	6.4	6.4	11.9	11.9	10	10	90	90	88	88	822103	808813	<0.2	0.8	0.8	0.8							
					IM10	Cloudy	Moderate	10:19	7.4	Surface	1.0	0.5	315	26.3	26.3	8.2	8.2	32.3	32.3	93.3	93.3	6.3	6.3	12.3	12.3	22	22	86	86	88	88	822407	809803	<0.2	0.8	0.8	0.8		
											1.0	0.6	344	26.3	26.3	8.2	8.2	32.3	32.3	93.3	93.3	6.3	6.3	12.3	12.3	21	21	86	86	88	88	822407	809803	<0.2	0.8	0.8	0.8		
											3.7	0.5	315	26.3	26.3	8.2	8.2	32.3	32.3	92.3	92.3	6.2	6.2	15.1	15.1	19	19	88	88	88	88	822407	809803	<0.2	0.8	0.8	0.8		
Middle	3.7	0.5	319	26.3						26.3	8.2	8.2	32.3	32.3	92.3	92.3	6.2	6.2	15.1	15.1	20	20	89	89	88	88	822407	809803	<0.2	0.7	0.7	0.7							
	6.4	0.5	311	26.3						26.3	8.2	8.2	32.3	32.3	93.4	93.4	6.3	6.3	16.7	16.7	17	17	90	90	88	88	822407	809803	<0.2	0.9	0.9	0.9							
	6.4	0.5	333	26.3						26.3	8.2	8.2	32.3	32.3	93.4	93.4	6.3	6.3	16.7	16.7	16	16	91	91	88	88	822407	809803	<0.2	0.8	0.8	0.8							
IM11	Cloudy	Moderate	10:08	8.3						Surface	1.0	0.6	306	26.5	26.5	8.2	8.2	32.5	32.5	92.9	92.9	6.2	6.2	10.7	10.7	13	13	87	87	88	88	822074	811445	<0.2	0.7	0.7	0.7		
											1.0	0.6	333	26.5	26.5	8.2	8.2	32.5	32.5	92.9	92.9	6.2	6.2	10.7	10.7	12	12	87	87	88	88	822074	811445	<0.2	0.8	0.8	0.8		
											4.2	0.5	318	26.5	26.5	8.2	8.2	32.6	32.6	92.2	92.2	6.2	6.2	12.2	12.2	15	15	88	88	88	88	822074	811445	<0.2	0.8	0.8	0.8		
					Middle	4.2	0.5	347	26.5	26.5	8.2	8.2	32.6	32.6	92.4	92.4	6.2	6.2	12.2	12.2	14	14	88	88	88	88	822074	811445	<0.2	0.7	0.7	0.7							
						7.3	0.4	327	26.5	26.5	8.2	8.2	32.6	32.6	92.5	92.5	6.2	6.2	13.3	13.3	17	17	90	90	88	88	822074	811445	<0.2	0.9	0.9	0.9							
						7.3	0.4	347	26.5	26.5	8.2	8.2	32.6	32.6	92.5	92.5	6.2	6.2	13.3	13.3	17	17	91	91	88	88	822074	811445	<0.2	0.7	0.7	0.7							
					IM12	Cloudy	Moderate	10:01	8.1	Surface	1.0	0.5	306	26.5	26.5	8.2	8.2	32.5	32.5	93.6	93.6	6.3	6.3	12.3	12.3	12	12	86	86	88	88	821457	812030	<0.2	0.8	0.8	0.8		
											1.0	0.6	336	26.5	26.5	8.2	8.2	32.5	32.5	93.6	93.6	6.3	6.3	12.3	12.3	13	13	86	86	88	88	821457	812030	<0.2	0.8	0.8	0.8		
											4.1	0.5	308	26.4	26.4	8.2	8.2	32.5	32.5	93.7	93.7	6.3	6.3	15.1	15.1	18	18	88	88	88	88	821457	812030	<0.2	0.8	0.8	0.8		
Middle	4.1	0.5	308	26.4						26.4	8.2	8.2	32.5	32.5	93.7	93.7	6.3	6.3	15.1	15.1	17	17	89	89	88	88	821457	812030	<0.2	0.7	0.7	0.7							
	7.1	0.4	306	26.4						26.4	8.2	8.2	32.5	32.5	97.6	97.6	6.6	6.6	15.4	15.4	19	19	90	90	88	88	821457	812030	<0.2	0.9	0.9	0.9							
	7.1	0.4	331	26.4						26.4	8.2	8.2	32.5	32.5	97.6	97.6	6.6	6.6	15.4	15.4	20	20	90	90	88	88	821457	812030	<0.2	0.8	0.8	0.8							
SR1A	Cloudy	Moderate	09:41	4.8						Surface	1.0	-	-	26.4	26.4	8.1	8.1	32.6	32.6	90.1	90.1	6.0	6.0	5.5	5.5	12	12	-	-	-	-	819972	812657	-	-	-	-		
											1.0	-	-	26.4	26.4	8.1	8.1	32.6	32.6	90.1	90.1	6.0	6.0	5.5	5.5	13	13	-	-	-	-	-	-	819972	812657	-	-	-	-
											2.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					Middle	2.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
						3.8	-	-	26.4	26.4	8.1	8.1	32.6	32.6	90.0	90.0	6.0	6.0	9.0	9.0	10	10	-	-	-	-	-	-	-	-	-	-	-	-	-				
						3.8	-	-	26.4	26.4	8.1	8.1	32.6	32.6	89.9	89.9	6.0	6.0	8.6	8.6	11	11	-	-	-	-	-	-	-	-	-	-	-	-	-				
					SR2	Cloudy	Moderate	09:26	4.5	Surface	1.0	0.4	75	26.4	26.4	8.2	8.2	32.5	32.5	92.9	92.9	6.2	6.2	13.0	13.0	10	10	89	89	88	88	821473	814164	<0.2	0.7	0.7	0.7		
											1.0	0.4	76	26.4	26.4	8.2	8.2	32.5	32.5	92.9	92.9	6.2	6.2	13.0	13.0	11	11	88	88	88	88	821473	814164	<0.2	0.8	0.8	0.8		
											-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Middle	-	-	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
	3.5	0.3	71	26.4						26.4	8.1	8.1	32.5	32.5	93.5	93.5	6.3	6.3	17.3	17.3	15	15	90	90	88	88	821473	814164	<0.2	0.8	0.8	0.8							
	3.5	0.3	74	26.4						26.4	8.1	8.1	32.5	32.5	93.7	93.7	6.3	6.3	17.6	17.6	15	15	90	90	88	88	821473	814164	<0.2	0.8	0.8	0.8							
SR3	Cloudy	Moderate	10:41	9.0						Surface	1.0	0.0	338	26.6	26.6	8.1	8.1	31.5	31.5	94.1	94.1	6.3	6.3	3.9	3.9	12	12	-	-	-	-	822163	807554	-	-	-	-		
											1.0	0.0	311	26.6	26.6	8.1	8.1	31.5	31.5	94.1	94.1	6.3	6.3	3.9	3.9	11	11	-	-	-	-	-	-	822163	807554	-	-	-	-
											4.5	0.1	40	26.5	26.5	8.1	8.1	31.5	31.5	93.3	93.3	6.3	6.3	4.4	4.4	9	9	-	-	-	-	-	-	822163	807554	-	-	-	-
					Middle	4.5	0.1	43	26.5	26.5	8.1	8.1	31.5	31.5	93.3	93.3	6.3	6.3	4.5	4.5	9	9	-	-	-	-	-	-	822163	807554	-	-	-	-					
						8.0	0.1	48	26.5	26.5	8.1	8.1	31.5	31.5	93.5	93.5	6.3	6.3	5.5	5.5	8	8	-	-	-	-	-	-	822163	807554	-	-	-	-					
						8.0	0.1	52	26.5	26.5	8.1	8.1	31.5	31.5	93.5	93.5	6.3	6.3	5.5	5.5	7	7	-	-	-	-	-	-	822163	807554	-	-	-	-					
					SR4A	Sunny	Calm	09:45	9.0	Surface	1.0	0.1	65	25.6	25.6	8.3	8.3	30.7	30.7	89.0	89.0	6.1	6.1	9.6	9.6	10	10	-	-	-	-	817191	807818	-	-	-	-		
											1.0	0.1	66	25.6	25.6	8.3	8.3	30.7	30.7	88.9	88.9	6.1	6.1	9.7	9.7	9	9	-	-	-	-	-	-	817191	807818	-	-	-	-
											4.5	0.2	67	25.6	25.6	8.3	8.3	30.7	30.7	88.4	88.4	6.1	6.1	12.3	12.3	11	11	-	-	-	-	-	-	817191	807818	-	-	-	-
Middle	4.5	0.2	67	25.6						25.6	8.3	8.3	30.7	30.7	88.4	88.4	6.1	6.1	12.4	12.4	12	12	-	-	-	-	-	-	817191	807818	-	-	-	-					
	8.0	0.1	66	25.6						25.6	8.2	8.2	30.7	30.7	88.7	88.7	6.1	6.1	12.9	12.9	14	14	-	-	-	-	-	-	817191	807818	-	-	-	-					
	8.0	0.1	70	25.6						25.6	8.2	8.2	30.7	30.7	88.8	88.8	6.1	6.1	12.8	12.8	14	14	-	-	-	-	-	-	817191	807818	-	-	-	-					
SR5A	Sunny	Calm	09:28	3.1						Surface	1.0	0.1	296	25.7	25.7	8.3	8.3	30.7	30.7	88.3	88.3	6.1	6.1	12.9	12.9	9	9	-	-	-	-	816572	810710	-	-	-	-		
											1.0	0.1	304	25.7	25.7	8.3	8.3																						



Expansion of Hong Kong International Airport into a Three-Runway System  
Water Quality Monitoring

Water Quality Monitoring Results on 22 October 20 during Mid-Ebb Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)	Current Speed (m/s)		Current Direction		Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity (NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)				
						Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA	
						Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA	Value
C1	Fine	Rough	17:09	8.3	Surface	1.0	0.1	231	25.5	25.5	8.0	8.0	31.8	31.8	97.9	97.9	6.7	6.7	5.6	5.6	10	87	91	815640	804268	<0.2	0.5	<0.2	0.5					
						1.0	0.1	252	25.5	8.0	8.0	31.8	31.8	97.9	97.9	6.7	6.7	5.6	5.6	9	88	91	815640	804268	<0.2	0.5	<0.2	0.5						
						4.2	0.1	254	25.5	8.1	8.1	32.0	32.0	97.3	97.3	6.7	6.7	6.9	6.9	9	90	91	815640	804268	<0.2	0.6	<0.2	0.6						
					Middle	4.2	0.1	270	25.5	25.5	8.1	8.1	32.0	32.0	97.2	97.2	6.7	6.7	7.0	7.0	8	90	91	815640	804268	<0.2	0.6	<0.2	0.6					
						7.3	0.1	184	25.4	25.4	8.1	8.1	33.5	33.5	95.9	95.9	6.5	6.5	10.3	10.3	9	94	91	815640	804268	<0.2	0.5	<0.2	0.5					
						7.3	0.1	196	25.4	25.4	8.1	8.1	33.5	33.5	96.0	96.0	6.5	6.5	10.2	10.2	8	94	91	815640	804268	<0.2	0.5	<0.2	0.5					
					C2	Fine	Rough	16:06	12.2	Surface	1.0	0.1	292	25.3	25.3	8.2	8.2	30.2	30.2	95.1	95.1	6.6	6.6	6.5	6.5	10	88	91	825689	806947	<0.2	0.6	<0.2	0.6
											1.0	0.1	316	25.3	25.3	8.2	8.2	30.2	30.2	95.1	95.1	6.6	6.6	6.5	6.5	10	90	91	825689	806947	<0.2	0.8	<0.2	0.8
											6.1	0.1	348	25.3	25.3	8.2	8.2	30.2	30.2	95.4	95.4	6.6	6.6	6.8	6.8	10	91	91	825689	806947	<0.2	0.7	<0.2	0.7
Middle	6.1	0.1	320	25.3						25.3	8.2	8.2	30.2	30.2	95.4	95.4	6.6	6.6	7.1	7.1	9	92	91	825689	806947	<0.2	0.7	<0.2	0.7					
	11.2	0.3	23	25.0						25.0	8.3	8.3	30.4	30.4	94.7	94.7	6.6	6.6	11.0	11.0	9	93	91	825689	806947	<0.2	0.6	<0.2	0.6					
	11.2	0.3	25	25.0						25.0	8.3	8.3	30.4	30.4	94.7	94.7	6.6	6.6	11.0	11.0	8	93	91	825689	806947	<0.2	0.6	<0.2	0.6					
C3	Fine	Moderate	18:01	12.5						Surface	1.0	0.0	233	25.6	25.6	8.2	8.2	32.2	32.2	88.2	88.2	6.0	6.0	4.4	4.4	6	89	91	822118	817813	<0.2	0.6	<0.2	0.6
											1.0	0.0	243	25.6	25.6	8.2	8.2	32.2	32.2	88.2	88.2	6.0	6.0	4.4	4.4	6	89	91	822118	817813	<0.2	0.7	<0.2	0.7
											6.3	0.0	253	25.6	25.6	8.2	8.2	32.2	32.2	88.3	88.4	6.0	6.0	4.6	4.6	7	91	91	822118	817813	<0.2	0.6	<0.2	0.6
					Middle	6.3	0.0	258	25.6	25.6	8.2	8.2	32.2	32.2	88.4	88.4	6.0	6.0	4.6	4.6	6	90	91	822118	817813	<0.2	0.7	<0.2	0.7					
						11.5	0.1	299	25.6	25.6	8.2	8.2	32.2	32.2	89.7	89.8	6.1	6.1	4.7	4.7	8	94	91	822118	817813	<0.2	0.7	<0.2	0.7					
						11.5	0.1	310	25.6	25.6	8.2	8.2	32.2	32.2	89.9	89.9	6.1	6.1	4.6	4.6	9	94	91	822118	817813	<0.2	0.6	<0.2	0.6					
					IM1	Fine	Rough	16:48	5.4	Surface	1.0	0.1	201	25.7	25.7	8.0	8.0	31.6	31.6	99.4	99.4	6.8	6.8	8.8	8.8	12	88	89	817925	807117	<0.2	0.6	<0.2	0.6
											1.0	0.1	201	25.7	25.7	8.0	8.0	31.6	31.6	99.4	99.4	6.8	6.8	8.9	8.9	11	88	89	817925	807117	<0.2	0.6	<0.2	0.6
											-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Middle	-	-	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4.4	0.1	197	25.7						25.7	7.9	7.9	31.6	31.6	98.7	98.7	6.7	6.7	13.8	13.8	9	90	89	817925	807117	<0.2	0.6	<0.2	0.6					
	4.4	0.1	199	25.7						25.7	7.9	7.9	31.6	31.6	98.7	98.7	6.7	6.7	13.5	13.5	10	91	89	817925	807117	<0.2	0.6	<0.2	0.6					
IM2	Fine	Rough	16:40	7.2						Surface	1.0	0.0	17	25.5	25.5	8.2	8.2	31.5	31.5	97.2	97.2	6.7	6.7	9.9	9.9	10	85	89	818150	806143	<0.2	0.5	<0.2	0.5
											1.0	0.0	18	25.5	25.5	8.2	8.2	31.5	31.5	97.1	97.1	6.7	6.7	9.9	9.9	11	86	89	818150	806143	<0.2	0.5	<0.2	0.5
											3.6	0.0	104	25.5	25.5	8.2	8.2	31.5	31.5	95.9	95.9	6.6	6.6	12.3	12.3	12	89	89	818150	806143	<0.2	0.6	<0.2	0.6
					Middle	3.6	0.0	114	25.5	25.5	8.2	8.2	31.5	31.5	95.8	95.8	6.6	6.6	12.5	12.5	13	88	89	818150	806143	<0.2	0.7	<0.2	0.7					
						6.2	0.1	25	25.4	25.4	8.2	8.2	31.8	31.8	94.5	94.5	6.5	6.5	15.9	15.9	12	93	89	818150	806143	<0.2	0.5	<0.2	0.5					
						6.2	0.1	26	25.4	25.4	8.2	8.2	31.8	31.8	94.5	94.5	6.5	6.5	15.7	15.7	12	93	89	818150	806143	<0.2	0.5	<0.2	0.5					
					IM3	Fine	Rough	16:32	7.5	Surface	1.0	0.1	57	25.4	25.4	8.1	8.1	31.6	31.6	96.1	96.1	6.6	6.6	12.5	12.5	9	86	89	818799	805600	<0.2	0.6	<0.2	0.6
											1.0	0.1	58	25.4	25.4	8.1	8.1	31.6	31.6	96.1	96.1	6.6	6.6	12.5	12.5	10	85	89	818799	805600	<0.2	0.5	<0.2	0.5
											3.8	0.2	301	25.5	25.5	8.0	8.0	31.6	31.6	96.1	96.1	6.6	6.6	15.9	15.9	12	89	89	818799	805600	<0.2	0.6	<0.2	0.6
Middle	3.8	0.2	312	25.5						25.5	8.0	8.0	31.6	31.6	96.0	96.0	6.6	6.6	16.0	16.0	13	89	89	818799	805600	<0.2	0.6	<0.2	0.6					
	6.5	0.2	18	25.5						25.5	8.0	8.0	32.1	32.1	95.2	95.2	6.5	6.5	19.1	19.1	15	93	89	818799	805600	<0.2	0.6	<0.2	0.6					
	6.5	0.2	18	25.5						25.5	8.0	8.0	32.1	32.1	95.3	95.3	6.5	6.5	18.9	18.9	15	93	89	818799	805600	<0.2	0.7	<0.2	0.7					
IM4	Fine	Rough	16:22	8.6						Surface	1.0	0.0	284	25.6	25.6	8.2	8.2	31.6	31.6	98.2	98.2	6.7	6.7	7.6	7.6	11	85	89	819726	804624	<0.2	0.6	<0.2	0.6
											1.0	0.0	284	25.6	25.6	8.2	8.2	31.6	31.6	98.2	98.2	6.7	6.7	7.6	7.6	11	85	89	819726	804624	<0.2	0.6	<0.2	0.6
											4.3	0.1	114	25.5	25.5	8.2	8.2	31.9	31.9	95.6	95.6	6.5	6.5	9.5	9.5	13	88	89	819726	804624	<0.2	0.6	<0.2	0.6
					Middle	4.3	0.1	115	25.5	25.5	8.2	8.2	32.0	31.9	95.5	95.5	6.5	6.5	9.6	9.6	12	89	89	819726	804624	<0.2	0.6	<0.2	0.6					
						7.6	0.1	23	25.5	25.5	8.2	8.2	32.4	32.4	94.6	94.6	6.5	6.5	11.1	11.1	14	93	89	819726	804624	<0.2	0.7	<0.2	0.7					
						7.6	0.1	24	25.5	25.5	8.2	8.2	32.4	32.4	94.6	94.6	6.5	6.5	10.8	10.8	16	93	89	819726	804624	<0.2	0.6	<0.2	0.6					
					IM5	Fine	Rough	16:13	7.7	Surface	1.0	0.2	37	25.5	25.5	8.2	8.2	31.5	31.5	97.0	97.0	6.7	6.7	11.2	11.2	11	85	89	820743	804857	<0.2	0.6	<0.2	0.6
											1.0	0.2	37	25.5	25.5	8.2	8.2	31.5	31.5	97.0	97.0	6.6	6.6	11.3	11.3	10	85	89	820743	804857	<0.2	0.6	<0.2	0.6
											3.9	0.1	19	25.5	25.5	8.1	8.1	31.5	31.5	96.6	96.6	6.6	6.6	14.6	14.6	13	88	89	820743	804857	<0.2	0.6	<0.2	0.6
Middle	3.9	0.1	19	25.5						25.5	8.1	8.1	31.5	31.5	96.7	96.7	6.6	6.6	14.8	14.8	12	88	89	820743	804857	<0.2	0.7	<0.2	0.7					
	6.7	0.3	78	25.5						25.5	8.0	8.0	31.6	31.6	96.2	96.2	6.6	6.6	17.8	17.8	16	92	89	820743	804857									

Expansion of Hong Kong International Airport into a Three-Runway System  
Water Quality Monitoring

Water Quality Monitoring Results on 22 October 20 during Mid-Ebb Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)	Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity (NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)								
								Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA					
IM9	Fine	Moderate	16:39	7.6	Surface	1.0	0.1	56	25.5	25.5	8.2	8.2	30.2	30.2	95.6	95.6	6.6	6.6	7.5	7.5	14	13	89	91	822112	808827	<0.2	0.7	0.7							
						1.0	0.1	61	25.5	8.2	8.2	30.2	30.2	95.5	95.5	6.6	6.6	7.5	7.5	13	13	89	91													
					Middle	3.8	0.2	45	25.4	25.4	8.2	8.2	30.2	30.2	95.4	95.4	6.6	6.6	7.3	7.3	12	13	91	93						91	93	<0.2	0.7	0.7		
						3.8	0.2	46	25.4	25.4	8.2	8.2	30.2	30.2	95.5	95.5	6.6	6.6	7.3	7.3	13	13	91	93						91	93	<0.2	0.7	0.7		
					Bottom	6.6	0.2	35	25.4	25.4	8.2	8.2	30.2	30.2	95.7	95.7	6.6	6.6	7.3	7.3	11	12	93	93						93	93	<0.2	0.7	0.6		
						6.6	0.2	38	25.4	25.4	8.2	8.2	30.2	30.2	95.7	95.7	6.6	6.6	7.3	7.3	12	12	93	93						93	93	<0.2	0.7	0.6		
IM10	Fine	Moderate	16:47	8.4	Surface	1.0	0.2	84	25.3	25.3	8.2	8.2	30.4	30.4	94.2	94.1	6.5	6.5	5.6	5.6	14	13	90	91	822371	809796	<0.2	0.7	0.7							
						1.0	0.2	88	25.3	25.3	8.2	8.2	30.5	30.4	94.0	94.0	6.5	6.5	5.6	5.6	13	13	88	90												
					Middle	4.2	0.1	65	25.5	25.5	8.2	8.2	30.8	30.8	92.8	92.8	6.4	6.4	5.8	5.8	12	13	90	93						91	93	<0.2	0.7	0.7		
						4.2	0.1	68	25.5	25.5	8.2	8.2	30.8	30.8	92.7	92.7	6.4	6.4	5.8	5.8	13	12	91	93						91	93	<0.2	0.6	0.6		
					Bottom	7.4	0.0	63	25.6	25.6	8.2	8.2	31.0	31.0	93.4	93.5	6.4	6.4	5.7	5.7	12	11	93	93						93	93	<0.2	0.7	0.7		
						7.4	0.0	68	25.6	25.6	8.2	8.2	31.0	31.0	93.5	93.5	6.4	6.4	5.8	5.8	11	11	93	93						93	93	<0.2	0.7	0.7		
IM11	Fine	Moderate	16:58	8.3	Surface	1.0	0.0	130	25.7	25.7	8.2	8.2	31.4	31.4	90.9	90.9	6.2	6.2	5.6	5.6	12	13	89	91	822078	811444	<0.2	0.6	0.6							
						1.0	0.0	130	25.7	25.7	8.2	8.2	31.4	31.4	90.8	90.8	6.2	6.2	5.6	5.6	13	10	89	91												
					Middle	4.2	0.1	181	25.7	25.7	8.2	8.2	31.5	31.5	88.3	88.1	6.0	6.0	6.4	6.4	11	10	91	93						91	93	<0.2	0.6	0.6		
						4.2	0.1	197	25.7	25.7	8.2	8.2	31.5	31.5	87.9	87.9	6.0	6.0	6.7	6.7	10	8	92	93						91	93	<0.2	0.6	0.6		
					Bottom	7.3	0.1	166	25.7	25.7	8.2	8.2	31.7	31.7	89.3	89.5	6.1	6.1	7.1	7.1	8	7	93	94						93	94	<0.2	0.7	0.6		
						7.3	0.2	174	25.7	25.7	8.2	8.2	31.7	31.7	89.6	89.6	6.1	6.1	7.0	7.0	7	7	94	94						94	94	<0.2	0.6	0.6		
IM12	Fine	Moderate	17:05	9.4	Surface	1.0	0.2	136	25.6	25.6	8.2	8.2	31.1	31.1	91.3	91.2	6.3	6.3	5.5	5.5	5	6	89	92	821457	812043	<0.2	0.7	0.7							
						1.0	0.2	140	25.6	25.6	8.2	8.2	31.2	31.1	91.1	91.1	6.2	6.2	5.5	5.5	6	7	90	94												
					Middle	4.7	0.1	144	25.7	25.7	8.2	8.2	31.4	31.4	90.6	90.6	6.2	6.2	6.0	6.0	7	7	91	94						91	94	<0.2	0.7	0.6		
						4.7	0.1	152	25.7	25.7	8.2	8.2	31.4	31.4	90.6	90.6	6.2	6.2	6.0	6.0	7	8	92	94						91	94	<0.2	0.7	0.6		
					Bottom	8.4	0.1	170	25.7	25.7	8.2	8.2	31.3	31.3	91.4	91.5	6.2	6.2	6.4	6.4	8	8	94	94						94	94	<0.2	0.6	0.6		
						8.4	0.1	173	25.7	25.7	8.2	8.2	31.3	31.3	91.6	91.6	6.2	6.2	6.6	6.6	8	8	94	94						94	94	<0.2	0.7	0.6		
SR1A	Fine	Moderate	17:25	5.4	Surface	1.0	-	-	25.6	25.6	8.2	8.2	30.8	30.8	92.4	92.5	6.3	6.3	6.7	6.7	9	8	-	-	819971	812662	-	-	-							
						1.0	-	-	25.6	25.6	8.2	8.2	30.8	30.8	92.5	92.5	6.4	6.4	6.7	6.7	8	8	-	-												
					Middle	2.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						-	-	-	-	-	-	-
						2.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						-	-	-	-	-	-	-
					Bottom	4.4	-	-	25.6	25.6	8.2	8.2	30.8	30.8	93.2	93.3	6.4	6.4	6.9	6.9	6	7	-	-						-	-	-	-	-	-	-
						4.4	-	-	25.6	25.6	8.2	8.2	30.8	30.8	93.3	93.3	6.4	6.4	6.8	6.8	7	7	-	-						-	-	-	-	-	-	-
SR2	Fine	Moderate	17:38	5.1	Surface	1.0	0.1	359	25.6	25.6	8.2	8.2	31.3	31.3	92.6	92.5	6.3	6.3	4.6	4.6	8	7	90	92	821461	814171	<0.2	0.7	0.8							
						1.0	0.1	330	25.6	25.6	8.2	8.2	31.4	31.3	92.3	92.3	6.3	6.3	4.6	4.6	7	8	89	94												
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						-	-	-	-	-	-	-
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						-	-	-	-	-	-	-
					Bottom	4.1	0.1	14	25.7	25.7	8.2	8.2	31.7	31.7	91.8	91.9	6.3	6.3	5.5	5.5	9	8	93	94						93	94	<0.2	0.5	0.6		
						4.1	0.1	15	25.7	25.7	8.2	8.2	31.7	31.7	92.0	92.0	6.3	6.3	5.7	5.7	8	8	94	94						94	94	<0.2	0.6	0.6		
SR3	Fine	Rough	16:27	9.1	Surface	1.0	0.3	126	25.4	25.4	8.2	8.2	30.2	30.2	95.4	95.4	6.6	6.6	5.9	5.9	8	8	-	-	822167	807569	-	-	-							
						1.0	0.3	137	25.4	25.4	8.2	8.2	30.2	30.2	95.3	95.3	6.6	6.6	5.9	5.9	8	8	-	-												
					Middle	4.6	0.3	122	25.4	25.4	8.2	8.2	30.2	30.2	95.1	95.1	6.6	6.6	6.5	6.5	7	8	-	-						-	-	-	-	-		
						4.6	0.3	129	25.4	25.4	8.2	8.2	30.2	30.2	95.0	95.0	6.6	6.6	6.6	6.6	8	7	-	-						-	-	-	-	-		
					Bottom	8.1	0.2	80	25.1	25.1	8.2	8.2	30.3	30.3	94.6	94.6	6.6	6.6	16.5	16.5	7	7	-	-						-	-	-	-	-	-	
						8.1	0.2	87	25.1	25.1	8.2	8.2	30.3	30.3	94.6	94.6	6.6	6.6	16.3	16.3	7	7	-	-						-	-	-	-	-	-	
SR4A	Fine	Calm	17:32	9.5	Surface	1.0	0.3	63	25.6	25.6	8.1	8.1	31.5	31.5	98.7	98.7	6.8	6.8	9.6	9.6	10	9	-	-	817170	807823	-	-	-							
						1.0	0.3	64	25.6	25.6	8.1	8.1	31.5	31.5	98.6	98.6	6.8	6.8	9.7	9.7	9	9	-	-												
					Middle	4.8	0.2	71	25.6	25.6	8.1	8.1	31.6	31.6	98.6	98.6	6.7	6.7	10.8	10.8	9	10	-	-						-	-	-	-			
						4.8	0.3	73	25.6	25.6	8.1	8.1	31.6	31.6	98.5	98.5	6.7	6.7	10.9	10.9	10	9	-	-						-	-	-	-			
					Bottom	8.5	0.2	74	25.6	25.6	8.1	8.1	31.6	31.6	98.6	98.6	6.7	6.7	12.0	12.0	9	9	-	-						-	-	-	-	-		
						8.5	0.2	77	25.6	25.6	8.1	8.1	31.6	31.6	98.6	98.6	6.7	6.7	12.1	12.1	9	9	-	-						-	-	-	-	-		
SR5A	Fine	Calm	17:49	3.9	Surface	1.0	0.1	321	25.9	25.9	8.1	8.1	31.4	31.4	95.2	95.2	6.5	6.5	7.2	7.2	10	11	-	-	816611	810681	-	-	-							
						1.0	0.1	337	25.9	25.9	8.1	8.1	31.4	31.4	95.1	95.1	6.5	6.5	7.2	7.2	11	12	-	-												
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						-	-	-	-	-		
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						-	-	-	-	-		
					Bottom	2.9	0.1	334	25.9	25.9	8.0	8.0	31.4																							

Expansion of Hong Kong International Airport into a Three-Runway System

Water Quality Monitoring

Water Quality Monitoring Results on 22 October 20 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)	Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity (NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)									
								Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA						
C1	Fine	Rough	12:46	8.0	Surface	1.0	0.3	93	25.5	25.5	8.2	8.2	31.8	31.8	96.4	96.4	6.6	6.6	6.8	6.8	9	9	87	87	90	815628	804229	<0.2	0.6	<0.2	0.7						
						1.0	0.3	95	25.5	25.5	8.2	8.2	31.8	31.8	96.3	96.3	6.6	6.6	6.9	6.9	9	9	87	87				<0.2	0.6								
					Middle	4.0	0.3	64	25.5	25.5	8.2	8.2	32.1	32.1	95.8	95.9	6.6	6.6	10.3	10.3	10	10	89	89				<0.2	0.8	<0.2	0.8						
						4.0	0.3	68	25.5	25.5	8.2	8.2	32.1	32.1	95.9	95.9	6.6	6.6	10.6	10.6	10	10	89	89				<0.2	0.8	<0.2	0.8						
					Bottom	7.0	0.2	77	25.5	25.5	8.2	8.2	32.6	32.6	94.6	94.6	6.4	6.4	13.7	13.7	12	12	93	93				<0.2	0.6	<0.2	0.6						
						7.0	0.2	77	25.5	25.5	8.2	8.2	32.6	32.6	94.6	94.6	6.4	6.4	13.6	13.6	11	11	92	92				<0.2	0.7	<0.2	0.7						
C2	Cloudy	Rough	13:21	11.7	Surface	1.0	0.2	348	25.3	25.3	8.2	8.2	29.9	29.9	93.6	93.6	6.5	6.5	6.1	6.1	8	8	88	88	90	825661	806932	<0.2	0.6	<0.2	0.6						
						1.0	0.2	320	25.3	25.3	8.2	8.2	29.9	29.9	93.5	93.5	6.5	6.5	6.1	6.1	8	8	87	87				<0.2	0.6	<0.2	0.6						
					Middle	5.9	0.4	344	25.4	25.4	8.2	8.2	30.2	30.2	91.3	91.3	6.3	6.3	5.8	5.8	9	9	90	90				<0.2	0.8	<0.2	0.8						
						5.9	0.4	316	25.4	25.4	8.2	8.2	30.3	30.3	91.2	91.2	6.3	6.3	5.9	5.9	8	8	89	89				<0.2	0.7	<0.2	0.7						
					Bottom	10.7	0.4	324	25.4	25.4	8.2	8.2	30.4	30.4	91.3	91.4	6.3	6.3	15.3	15.3	11	11	92	92				<0.2	0.6	<0.2	0.6						
						10.7	0.4	338	25.4	25.4	8.2	8.2	30.4	30.4	91.4	91.4	6.3	6.3	15.2	15.2	10	10	92	92				<0.2	0.6	<0.2	0.6						
C3	Cloudy	Moderate	11:25	9.8	Surface	1.0	0.4	277	25.7	25.7	8.2	8.2	31.4	31.4	89.3	89.2	6.1	6.1	4.5	4.5	6	6	85	85	88	822102	817799	<0.2	0.7	<0.2	0.7						
						1.0	0.4	287	25.7	25.7	8.2	8.2	31.4	31.4	89.1	89.1	6.1	6.1	4.5	4.5	7	7	86	86				<0.2	0.6	<0.2	0.6						
					Middle	4.9	0.4	270	25.6	25.6	8.2	8.2	31.5	31.5	87.4	87.3	6.0	6.0	7.3	7.3	7	7	89	89				<0.2	0.6	<0.2	0.6						
						4.9	0.4	288	25.6	25.6	8.2	8.2	31.5	31.5	87.2	87.2	6.0	6.0	7.4	7.4	8	8	88	88				<0.2	0.6	<0.2	0.6						
					Bottom	8.8	0.2	278	25.7	25.7	8.2	8.2	31.7	31.7	86.8	86.7	5.9	5.9	11.8	11.8	8	8	90	90				<0.2	0.7	<0.2	0.7						
						8.8	0.3	283	25.7	25.7	8.2	8.2	31.7	31.7	86.6	86.6	5.9	5.9	11.5	11.5	8	8	90	90				<0.2	0.6	<0.2	0.6						
IM1	Fine	Rough	13:06	5.3	Surface	1.0	0.1	19	25.6	25.6	8.2	8.2	31.6	31.6	96.2	96.2	6.6	6.6	11.8	11.8	10	10	88	88	89	817970	807128	<0.2	0.7	<0.2	0.8						
						1.0	0.1	19	25.6	25.6	8.2	8.2	31.6	31.6	96.1	96.1	6.6	6.6	11.9	11.9	10	10	88	88				<0.2	0.8	<0.2	0.8						
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-	-	-	-	-	-	-	-
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-	-	-	-	-	-	-	-
					Bottom	4.3	0.1	21	25.4	25.4	7.9	7.9	31.7	31.7	95.1	95.1	6.5	6.5	15.0	15.0	12	12	90	90				<0.2	0.8	<0.2	0.8						
						4.3	0.2	22	25.4	25.4	7.9	7.9	31.7	31.7	95.1	95.1	6.5	6.5	15.3	15.3	11	11	90	90				<0.2	0.6	<0.2	0.6						
IM2	Fine	Rough	13:19	7.1	Surface	1.0	0.2	351	25.5	25.5	8.2	8.2	31.2	31.2	97.0	96.9	6.7	6.7	7.2	7.2	8	8	86	86	89	818180	806185	<0.2	0.6	<0.2	0.6						
						1.0	0.3	323	25.5	25.5	8.2	8.2	31.2	31.2	96.8	96.8	6.6	6.6	7.2	7.2	7	7	86	86				<0.2	0.7	<0.2	0.7						
					Middle	3.6	0.1	11	25.5	25.5	8.1	8.1	31.3	31.3	95.6	95.6	6.6	6.6	11.4	11.4	8	8	88	88				<0.2	0.8	<0.2	0.8						
						3.6	0.1	12	25.5	25.5	8.1	8.1	31.3	31.3	95.6	95.6	6.6	6.6	11.7	11.7	8	8	88	88				<0.2	0.6	<0.2	0.6						
					Bottom	6.1	0.2	359	25.3	25.3	8.0	8.0	31.7	31.7	94.4	94.4	6.5	6.5	17.7	17.7	8	8	91	91				<0.2	0.6	<0.2	0.6						
						6.1	0.2	330	25.3	25.3	8.0	8.0	31.7	31.7	94.5	94.5	6.5	6.5	17.6	17.6	9	9	92	92				<0.2	0.8	<0.2	0.8						
IM3	Fine	Rough	13:25	7.3	Surface	1.0	0.2	4	25.5	25.5	8.2	8.2	31.1	31.1	97.3	97.3	6.7	6.7	7.8	7.8	9	9	86	86	88	818777	805615	<0.2	0.7	<0.2	0.7						
						1.0	0.3	4	25.5	25.5	8.2	8.2	31.1	31.1	97.2	97.2	6.7	6.7	7.9	7.9	8	8	86	86				<0.2	0.7	<0.2	0.7						
					Middle	3.7	0.3	31	25.4	25.4	8.2	8.2	31.3	31.3	95.2	95.2	6.5	6.5	9.8	9.8	9	9	88	88				<0.2	0.9	<0.2	0.9						
						3.7	0.3	32	25.4	25.4	8.2	8.2	31.3	31.3	95.2	95.2	6.5	6.5	10.0	10.0	8	8	88	88				<0.2	0.7	<0.2	0.7						
					Bottom	6.3	0.4	9	25.3	25.3	8.2	8.2	31.5	31.5	94.6	94.6	6.5	6.5	16.7	16.7	10	10	91	91				<0.2	0.7	<0.2	0.7						
						6.3	0.4	9	25.3	25.3	8.2	8.2	31.5	31.5	94.6	94.6	6.5	6.5	16.6	16.6	10	10	91	91				<0.2	0.7	<0.2	0.7						
IM4	Fine	Rough	13:35	8.4	Surface	1.0	0.2	17	25.6	25.6	8.2	8.2	31.1	31.1	96.2	96.2	6.6	6.6	10.4	10.4	11	11	86	86	88	819717	804620	<0.2	0.6	<0.2	0.7						
						1.0	0.2	18	25.6	25.6	8.2	8.2	31.1	31.1	96.2	96.2	6.6	6.6	10.4	10.4	12	12	86	86				<0.2	0.7	<0.2	0.7						
					Middle	4.2	0.3	17	25.6	25.6	8.1	8.1	31.2	31.2	95.2	95.2	6.5	6.5	15.9	15.9	10	10	88	88				<0.2	0.8	<0.2	0.8						
						4.2	0.3	17	25.6	25.6	8.1	8.1	31.2	31.2	95.2	95.2	6.5	6.5	16.2	16.2	10	10	88	88				<0.2	0.7	<0.2	0.7						
					Bottom	7.4	0.3	36	25.4	25.4	8.0	8.0	31.6	31.6	94.4	94.4	6.5	6.5	20.3	20.3	10	10	91	91				<0.2	0.8	<0.2	0.8						
						7.4	0.3	36	25.4	25.4	8.0	8.0	31.6	31.6	94.5	94.5	6.5	6.5	20.5	20.5	10	10	91	91				<0.2	0.7	<0.2	0.7						
IM5	Fine	Rough	13:43	6.6	Surface	1.0	0.5	11	25.5	25.5	8.1	8.1	31.0	31.0	96.2	96.3	6.6	6.6	11.6	11.6	14	14	86	86	88	820740	804850	<0.2	0.8	<0.2	0.8						
						1.0	0.5	11	25.5	25.5	8.1	8.1	31.0	31.0	96.3	96.3	6.6	6.6	11.7	11.7	14	14	86	86				<0.2	0.8	<0.2	0.8						
					Middle	3.3	0.4	7	25.4	25.4	8.0	8.0	31.1	31.1	95.2	95.3	6.6	6.6	13.2	13.2	16	16	88	88				<0.2	0.7	<0.2	0.7						
						3.3	0.4	7	25.4	25.4	8.0	8.0	31.1	31.1	95.3	95.3	6.6	6.6	13.2	13.2	15	15	88	88				<0.2	0.8	<0.2	0.8						
					Bottom	5.6	0.5	17	25.4	25.4	8.0	8.0	31.1	31.1	94.9	95.0	6.5	6.5	15.7	15.7	17	17	91	91				<0.2	1.0	<0.2	1.0						
						5.6	0.5	18	25.4	25.4	8.0	8.0	31.1	31.1	95.0	95.0	6.5	6.5	15.6	15.6	16	16	91	91				<0.2	0.8	<0.2	0.8						
IM6	Fine	Rough	13:50	7.4	Surface	1.0	0.2	238	25.8	25.8	8.1	8.1	31.4	31.4	95.5	95.5																					

Expansion of Hong Kong International Airport into a Three-Runway System

Water Quality Monitoring

Water Quality Monitoring Results on 22 October 20 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)	Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity (NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)						
								Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA			
IM9	Cloudy	Moderate	12:45	7.0	Surface	1.0	0.1	47	25.1	25.1	8.2	8.2	30.1	30.1	93.6	93.6	6.5	6.5	8.4	9	87	89	89	822078	808820	<0.2	0.7	<0.2	0.7					
						1.0	0.1	47	25.1	25.1	8.2	8.2	30.1	30.1	93.6	93.6	6.5	6.5	8.4	8	87	89	89	822078	808820	<0.2	0.7	<0.2	0.7					
						3.5	0.1	30	25.1	25.1	8.2	8.2	30.1	30.1	93.4	93.4	6.5	6.5	9.0	7	89	89	89	822078	808820	<0.2	0.7	<0.2	0.7					
					Middle	3.5	0.1	32	25.1	25.1	8.2	8.2	30.1	30.1	93.4	93.4	6.5	6.5	8.9	6	90	89	89	822078	808820	<0.2	0.7	<0.2	0.7					
						6.0	0.1	358	25.1	25.1	8.2	8.2	30.1	30.1	94.6	94.9	6.6	6.6	10.1	6	91	89	89	822078	808820	<0.2	0.6	<0.2	0.7					
						6.0	0.1	329	25.0	25.0	8.2	8.2	30.2	30.2	95.1	95.1	6.6	6.6	10.2	5	92	89	89	822078	808820	<0.2	0.7	<0.2	0.7					
					IM10	Cloudy	Moderate	12:37	7.3	Surface	1.0	0.4	297	25.4	25.4	8.2	8.2	30.4	30.4	93.6	93.5	6.5	6.5	6.1	6	87	89	89	822379	809770	<0.2	0.8	<0.2	0.6
											1.0	0.5	323	25.4	25.4	8.2	8.2	30.4	30.4	93.3	93.3	6.4	6.4	6.6	7	88	89	89	822379	809770	<0.2	0.6	<0.2	0.7
											3.7	0.4	298	25.4	25.4	8.2	8.2	30.7	30.7	91.8	91.9	6.3	6.3	10.1	8	90	89	89	822379	809770	<0.2	0.7	<0.2	0.7
Middle	3.7	0.5	309	25.4						25.4	8.2	8.2	30.7	30.7	91.9	91.9	6.3	6.3	10.0	7	89	89	89	822379	809770	<0.2	0.7	<0.2	0.7					
	6.3	0.4	297	25.4						25.4	8.2	8.2	30.7	30.7	93.7	93.8	6.5	6.5	11.5	9	92	89	89	822379	809770	<0.2	0.7	<0.2	0.7					
	6.3	0.4	320	25.3						25.4	8.2	8.2	30.8	30.7	93.9	93.9	6.5	6.5	11.4	9	93	89	89	822379	809770	<0.2	0.7	<0.2	0.7					
IM11	Cloudy	Moderate	12:26	7.6						Surface	1.0	0.4	290	25.5	25.5	8.2	8.2	31.0	31.0	91.1	91.1	6.3	6.3	8.0	6	86	89	89	822063	811465	<0.2	0.8	<0.2	0.7
											1.0	0.5	296	25.5	25.5	8.2	8.2	31.0	31.0	91.0	91.0	6.3	6.3	8.1	5	87	89	89	822063	811465	<0.2	0.7	<0.2	0.7
											3.8	0.5	292	25.5	25.5	8.2	8.2	31.0	31.0	90.8	90.8	6.2	6.2	12.1	6	89	89	89	822063	811465	<0.2	0.7	<0.2	0.7
					Middle	3.8	0.5	298	25.5	25.5	8.2	8.2	31.0	31.0	90.8	90.8	6.3	6.3	12.5	6	89	89	89	822063	811465	<0.2	0.7	<0.2	0.7					
						6.6	0.4	301	25.5	25.5	8.2	8.2	31.0	31.0	91.4	91.5	6.3	6.3	13.7	7	92	89	89	822063	811465	<0.2	0.8	<0.2	0.6					
						6.6	0.4	317	25.5	25.5	8.2	8.2	31.0	31.0	91.5	91.5	6.3	6.3	13.0	8	91	89	89	822063	811465	<0.2	0.6	<0.2	0.7					
					IM12	Cloudy	Moderate	12:19	8.5	Surface	1.0	0.6	281	25.6	25.6	8.2	8.2	31.0	31.0	91.7	91.6	6.3	6.3	6.6	6	85	88	88	821455	812043	<0.2	0.7	<0.2	0.8
											1.0	0.6	303	25.6	25.6	8.2	8.2	31.0	31.0	91.4	91.4	6.3	6.3	7.2	7	86	88	88	821455	812043	<0.2	0.8	<0.2	0.7
											4.3	0.6	283	25.5	25.5	8.2	8.2	31.1	31.1	90.2	90.2	6.2	6.2	9.5	8	87	88	88	821455	812043	<0.2	0.7	<0.2	0.7
Middle	4.3	0.6	307	25.5						25.5	8.2	8.2	31.1	31.1	90.2	90.2	6.2	6.2	9.1	8	89	88	88	821455	812043	<0.2	0.7	<0.2	0.7					
	7.5	0.5	281	25.5						25.5	8.2	8.2	31.1	31.1	90.7	90.9	6.2	6.2	12.6	9	90	88	88	821455	812043	<0.2	0.6	<0.2	0.7					
	7.5	0.5	300	25.5						25.5	8.2	8.2	31.1	31.1	91.0	91.0	6.3	6.3	12.6	10	90	88	88	821455	812043	<0.2	0.7	<0.2	0.6					
SR1A	Cloudy	Moderate	11:58	5.1						Surface	1.0	-	-	25.5	25.5	8.2	8.2	30.8	30.8	88.1	88.1	6.1	6.1	7.0	7	-	-	-	819971	812665	-	-	-	-
											1.0	-	-	25.5	25.5	8.2	8.2	30.8	30.8	88.0	88.0	6.1	6.1	7.3	6	-	-	-	819971	812665	-	-	-	-
											2.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	819971	812665	-	-
					Middle	2.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	819971	812665	-	-	-	-			
						4.1	-	-	25.5	25.5	8.2	8.2	30.8	30.8	89.3	89.5	6.2	6.2	8.7	9	-	-	-	-	-	819971	812665	-	-	-	-			
						4.1	-	-	25.5	25.5	8.2	8.2	30.8	30.8	89.7	89.7	6.2	6.2	8.6	10	-	-	-	-	-	819971	812665	-	-	-	-			
					SR2	Cloudy	Moderate	11:45	4.3	Surface	1.0	0.2	63	25.4	25.4	8.2	8.2	30.8	30.8	91.5	91.5	6.3	6.3	6.7	8	88	89	89	821464	814188	<0.2	0.8	<0.2	0.7
											1.0	0.2	63	25.4	25.4	8.2	8.2	30.8	30.8	91.4	91.4	6.3	6.3	6.7	9	87	89	89	821464	814188	<0.2	0.7	<0.2	0.7
											-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	821464	814188	<0.2	0.7
Middle	-	-	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	821464	814188	<0.2	0.7	<0.2	0.6			
	3.3	0.2	47	25.4						25.4	8.2	8.2	30.9	30.9	91.5	91.6	6.3	6.3	7.9	8	90	89	89	821464	814188	<0.2	0.6	<0.2	0.7					
	3.3	0.2	49	25.4						25.4	8.2	8.2	30.9	30.9	91.6	91.6	6.3	6.3	8.1	8	90	89	89	821464	814188	<0.2	0.7	<0.2	0.6					
SR3	Cloudy	Moderate	12:59	8.7						Surface	1.0	0.2	137	25.5	25.5	8.2	8.2	30.2	30.2	94.1	94.1	6.5	6.5	5.1	17	-	-	-	822145	807566	-	-	-	-
											1.0	0.2	139	25.5	25.5	8.2	8.2	30.2	30.2	94.0	94.0	6.5	6.5	5.2	16	-	-	-	822145	807566	-	-	-	-
											4.4	0.1	81	25.4	25.4	8.2	8.2	30.4	30.4	93.5	93.5	6.5	6.5	5.8	15	-	-	-	822145	807566	-	-	-	-
					Middle	4.4	0.1	82	25.4	25.4	8.2	8.2	30.4	30.4	93.5	93.5	6.5	6.5	6.5	15	-	-	-	822145	807566	-	-	-	-					
						7.7	0.1	334	25.3	25.3	8.2	8.2	30.5	30.5	94.4	94.5	6.5	6.5	8.9	13	-	-	-	822145	807566	-	-	-	-					
						7.7	0.1	307	25.3	25.3	8.2	8.2	30.6	30.6	94.6	94.6	6.5	6.5	9.4	12	-	-	-	822145	807566	-	-	-	-					
					SR4A	Fine	Calm	12:22	8.8	Surface	1.0	0.1	50	25.8	25.8	8.2	8.2	31.3	31.3	93.9	93.9	6.4	6.4	7.5	9	-	-	-	817203	807803	-	-	-	-
											1.0	0.1	53	25.8	25.8	8.2	8.2	31.3	31.3	93.9	93.9	6.4	6.4	7.6	9	-	-	-	817203	807803	-	-	-	-
											4.4	0.2	73	25.4	25.4	8.2	8.2	31.6	31.6	93.6	93.6	6.4	6.4	9.3	10	-	-	-	817203	807803	-	-	-	-
Middle	4.4	0.2	78	25.4						25.4	8.2	8.2	31.6	31.6	93.6	93.6	6.4	6.4	9.4	9	-	-	-	817203	807803	-	-	-	-					
	7.8	0.3	72	25.4						25.4	8.2	8.2	31.7	31.7	93.3	93.3	6.4	6.4	11.4	10	-	-	-	817203	807803	-	-	-	-					
	7.8	0.3	72	25.4						25.4	8.2	8.2	31.7	31.7	93.3	93.3	6.4	6.4	11.2	10	-	-	-	817203	807803	-	-	-	-					
SR5A	Fine	Calm	12:03	3.2						Surface	1.0	0.0	302	25.9	25.8	8.1	8.1	31.5	31.5	93.8	93.8	6.4	6.4	5.6	10	-	-	-	816587	810699	-	-	-	-

Expansion of Hong Kong International Airport into a Three-Runway System  
 Water Quality Monitoring  
 Water Quality Monitoring Results on 24 October 20 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity (NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)									
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA	Value	DA				
																																			Value	DA	Value	DA
C1	Cloudy	Moderate	18:56	8.5	Surface	1.0	0.2	247	24.4	24.4	8.2	8.2	32.6	32.6	92.7	92.7	6.4	6.4	13.4	9	86	88	88	88	88	88	815619	804254	<0.2	0.7	0.8	0.8						
						1.0	0.3	248	24.4	24.4	8.2	8.2	32.6	32.6	92.6	92.6	6.4	6.4	13.5	10	87	88	88	88	88	88	88	88	88	88	88	88	88	88	88			
						4.3	0.2	246	24.4	24.4	8.2	8.2	32.6	32.6	92.6	92.6	6.4	6.4	11.9	11	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88		
					Middle	4.3	0.2	266	24.4	24.4	8.2	8.2	32.6	32.6	92.6	92.6	6.4	6.4	11.3	12	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	
						7.5	0.1	215	24.4	24.4	8.2	8.2	32.6	32.6	92.7	92.7	6.4	6.4	13.2	13	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90
						7.5	0.1	228	24.4	24.4	8.2	8.2	32.6	32.6	92.7	92.7	6.4	6.4	13.4	14	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89
C2	Fine	Moderate	17:47	12.5	Surface	1.0	0.2	202	24.7	24.7	8.2	8.2	32.1	32.1	95.2	95.2	6.6	6.6	4.6	6	86	86	86	86	86	86	825698	806957	<0.2	1.1	1.1	1.1						
						1.0	0.2	221	24.7	24.7	8.2	8.2	32.1	32.1	95.2	95.2	6.6	6.6	4.6	5	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	
						6.3	0.2	329	25.1	25.1	8.2	8.2	32.7	32.7	93.3	93.3	6.4	6.4	6.2	5	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89
					Middle	6.3	0.2	322	25.1	25.1	8.2	8.2	32.7	32.7	93.3	93.3	6.4	6.4	6.2	5	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89
						11.5	0.3	329	24.9	24.9	8.1	8.1	32.9	32.9	95.4	95.4	6.6	6.6	9.6	4	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92
						11.5	0.3	338	24.9	24.9	8.1	8.1	32.9	32.9	95.5	95.5	6.6	6.6	9.7	5	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91
C3	Fine	Moderate	19:44	12.9	Surface	1.0	0.1	94	25.5	25.5	8.1	8.1	33.7	33.7	89.8	89.8	6.1	6.1	2.4	7	87	87	87	87	87	87	822117	817826	<0.2	0.7	0.7	0.7						
						1.0	0.1	100	25.5	25.5	8.1	8.1	33.7	33.7	89.8	89.8	6.1	6.1	2.5	7	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86		
						6.5	0.1	73	25.5	25.5	8.1	8.1	33.7	33.7	89.9	89.9	6.1	6.1	2.9	7	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	
					Middle	6.5	0.1	77	25.5	25.5	8.1	8.1	33.7	33.7	89.8	89.8	6.1	6.1	3.0	8	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	
						11.9	0.1	62	25.5	25.5	8.1	8.1	33.7	33.7	90.3	90.3	6.1	6.1	3.0	11	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	
						11.9	0.2	64	25.5	25.5	8.1	8.1	33.7	33.7	90.3	90.3	6.1	6.1	3.0	12	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	
IM1	Cloudy	Moderate	18:35	5.8	Surface	1.0	0.2	220	23.7	23.7	8.3	8.3	32.2	32.2	96.3	96.3	6.8	6.8	6.2	10	86	86	86	86	86	817943	807109	<0.2	0.7	0.7	0.7							
						1.0	0.2	241	23.7	23.7	8.3	8.3	32.2	32.2	96.3	96.3	6.8	6.8	6.2	10	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87			
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
					Middle	4.8	0.2	195	23.8	23.8	8.3	8.3	32.3	32.3	96.1	96.1	6.8	6.8	7.7	8	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88		
						4.8	0.2	210	23.8	23.8	8.3	8.3	32.3	32.3	96.1	96.1	6.8	6.8	7.9	8	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
IM2	Cloudy	Moderate	18:27	7.6	Surface	1.0	0.2	164	24.0	24.0	8.3	8.3	32.5	32.5	94.5	94.5	6.6	6.6	8.8	9	85	85	85	85	85	818172	806170	<0.2	0.7	0.6	0.6							
						1.0	0.3	165	24.0	24.0	8.3	8.3	32.5	32.5	94.5	94.5	6.6	6.6	8.8	10	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86			
						3.8	0.2	176	24.0	24.0	8.3	8.3	32.5	32.5	94.4	94.4	6.6	6.6	9.3	12	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88			
					Middle	3.8	0.2	180	24.0	24.0	8.3	8.3	32.5	32.5	94.4	94.4	6.6	6.6	9.4	13	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87		
						6.6	0.1	179	24.1	24.1	8.3	8.3	32.5	32.5	94.6	94.6	6.6	6.6	10.5	14	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89		
						6.6	0.1	179	24.0	24.1	8.3	8.3	32.5	32.5	94.7	94.7	6.6	6.6	10.3	13	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89		
IM3	Cloudy	Moderate	18:20	7.6	Surface	1.0	0.2	158	24.0	24.0	8.2	8.2	32.5	32.5	94.9	94.9	6.6	6.6	8.9	13	87	87	87	87	87	818787	805599	<0.2	0.5	0.5	0.5							
						1.0	0.2	167	24.0	24.0	8.2	8.2	32.5	32.5	94.9	94.9	6.6	6.6	9.0	12	85	85	85	85	85	85	85	85	85	85	85	85	85	85				
						3.8	0.1	146	24.0	24.0	8.2	8.2	32.5	32.5	94.8	94.8	6.6	6.6	9.6	14	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88			
					Middle	3.8	0.1	149	24.0	24.0	8.2	8.2	32.5	32.5	94.8	94.8	6.6	6.6	9.7	14	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87		
						6.6	0.1	121	24.0	24.0	8.2	8.2	32.5	32.5	94.7	94.7	6.6	6.6	10.9	14	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89		
						6.6	0.1	124	24.0	24.0	8.2	8.2	32.5	32.5	94.6	94.6	6.6	6.6	10.9	16	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89		
IM4	Cloudy	Moderate	18:09	8.5	Surface	1.0	0.2	173	24.0	24.0	8.2	8.2	32.5	32.5	94.4	94.4	6.6	6.6	10.8	17	85	85	85	85	85	819747	804625	<0.2	0.6	0.6	0.6							
						1.0	0.2	175	24.0	24.0	8.2	8.2	32.5	32.5	94.4	94.4	6.6	6.6	12.0	15	87	87	87	87	87	87	87	87	87	87	87	87	87	87				
						4.3	0.1	168	24.0	24.0	8.2	8.2	32.5	32.5	94.4	94.4	6.6	6.6	12.1	14	88	88	88	88	88	88	88	88	88	88	88	88	88	88				
					Middle	4.3	0.1	175	24.0	24.0	8.2	8.2	32.5	32.5	94.1	94.1	6.6	6.6	13.8	13	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89			
						7.5	0.1	155	24.0	24.0	8.2	8.2	32.5	32.5	94.1	94.1	6.6	6.6	13.9	14	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89			
						7.5	0.1	155	24.0	24.0	8.2	8.2	32.5	32.5	94.1	94.1	6.6																					

Expansion of Hong Kong International Airport into a Three-Runway System

Water Quality Monitoring

Water Quality Monitoring Results on 24 October 20 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity (NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)					
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA	Value	DA
IM9	Fine	Moderate	18:22	7.9	Surface	1.0	0.2	51	24.6	24.6	8.1	8.1	32.7	32.7	96.4	96.4	6.7	6.7	5.0	6	84	87	-	-	822083	808820	<0.2	0.7	0.7	0.7				
						1.0	0.2	51	24.6	24.6	8.1	8.1	32.7	32.7	96.4	96.4	6.7	6.7	5.0	6	84	87	-	-	822083	808820	<0.2	0.9	0.9	0.9				
						4.0	0.2	34	24.6	24.6	8.1	8.1	32.7	32.7	96.7	96.7	6.7	6.7	6.8	5	88	88	-	-	822083	808820	<0.2	0.6	0.6	0.6				
					Middle	4.0	0.2	37	24.6	24.6	8.1	8.1	32.7	32.7	96.6	96.7	6.7	6.7	6.8	4	88	88	-	-	822083	808820	<0.2	0.6	0.6	0.6				
						6.9	0.2	38	24.6	24.6	8.1	8.1	32.7	32.7	96.9	96.9	6.7	6.7	9.0	5	90	90	-	-	822083	808820	<0.2	0.8	0.8	0.8				
						6.9	0.2	38	24.6	24.6	8.1	8.1	32.7	32.7	96.8	96.9	6.7	6.7	8.9	4	90	90	-	-	822083	808820	<0.2	0.7	0.7	0.7				
					Bottom	1.0	0.1	328	25.1	25.1	8.1	8.1	33.1	33.1	92.1	92.2	6.3	6.3	4.3	5	85	85	-	-	822083	808820	<0.2	0.6	0.6	0.6				
						1.0	0.1	352	25.1	25.1	8.1	8.1	33.1	33.1	92.3	92.2	6.3	6.3	4.3	5	85	85	-	-	822083	808820	<0.2	0.7	0.7	0.7				
						4.3	0.2	314	25.1	25.1	8.1	8.1	33.1	33.1	92.3	92.4	6.3	6.3	5.6	5	88	88	-	-	822083	808820	<0.2	0.6	0.6	0.6				
IM10	Fine	Moderate	18:30	8.6	Middle	4.3	0.2	325	25.1	25.1	8.1	8.1	33.1	33.1	92.4	92.4	6.3	6.3	5.5	5.3	4	4	88	88	-	-	822389	809804	<0.2	0.6	0.6	0.6		
						7.6	0.2	322	25.1	25.1	8.1	8.1	33.1	33.1	92.7	92.7	6.3	6.3	6.0	4	90	90	-	-	822389	809804	<0.2	0.5	0.5	0.5				
						7.6	0.2	350	25.1	25.1	8.1	8.1	33.1	33.1	92.8	92.8	6.3	6.3	6.0	3	90	90	-	-	822389	809804	<0.2	0.5	0.5	0.5				
IM11	Fine	Moderate	18:42	8.1	Surface	1.0	0.1	215	25.3	25.3	8.1	8.1	33.3	33.3	92.3	92.3	6.3	6.3	2.8	4	85	85	-	-	822065	811473	<0.2	0.5	0.5	0.5				
						1.0	0.1	234	25.3	25.3	8.1	8.1	33.3	33.3	92.3	92.3	6.3	6.3	2.8	3	85	85	-	-	822065	811473	<0.2	0.7	0.7	0.7				
						4.1	0.1	224	25.3	25.3	8.1	8.1	33.3	33.3	92.4	92.5	6.3	6.3	3.4	4	89	89	-	-	822065	811473	<0.2	0.6	0.6	0.6				
Middle	4.1	0.1	228	25.3	25.3	8.1	8.1	33.3	33.3	92.5	92.5	6.3	6.3	3.5	3	89	89	-	-	822065	811473	<0.2	0.6	0.6	0.6									
	7.1	0.1	280	25.3	25.3	8.1	8.1	33.3	33.3	93.4	93.4	6.4	6.4	2.7	4	91	91	-	-	822065	811473	<0.2	0.5	0.5	0.5									
	7.1	0.1	297	25.3	25.3	8.2	8.2	33.3	33.3	93.4	93.4	6.4	6.4	2.7	5	91	91	-	-	822065	811473	<0.2	0.5	0.5	0.5									
IM12	Fine	Moderate	18:49	10.3	Surface	1.0	0.2	79	25.2	25.2	8.1	8.1	33.2	33.2	92.1	92.1	6.3	6.3	4.0	4	86	86	-	-	821440	812035	<0.2	0.7	0.7	0.7				
						1.0	0.2	79	25.2	25.2	8.1	8.1	33.2	33.2	92.0	92.0	6.3	6.3	4.0	4	85	85	-	-	821440	812035	<0.2	0.6	0.6	0.6				
						5.2	0.2	68	25.3	25.3	8.1	8.1	33.3	33.3	91.5	91.5	6.2	6.2	4.5	5	89	89	-	-	821440	812035	<0.2	0.5	0.5	0.5				
Middle	5.2	0.2	69	25.3	25.3	8.1	8.1	33.3	33.3	91.5	91.5	6.2	6.2	4.6	4	89	89	-	-	821440	812035	<0.2	0.6	0.6	0.6									
	9.3	0.2	81	25.3	25.3	8.1	8.1	33.4	33.4	91.8	91.9	6.3	6.3	4.7	6	90	90	-	-	821440	812035	<0.2	0.6	0.6	0.6									
	9.3	0.2	88	25.3	25.3	8.1	8.1	33.4	33.4	91.9	91.9	6.3	6.3	4.6	7	91	91	-	-	821440	812035	<0.2	0.6	0.6	0.6									
SR1A	Fine	Calm	19:05	5.4	Surface	1.0	-	-	24.8	24.8	8.1	8.1	32.3	32.3	92.3	92.3	6.4	6.4	4.2	10	-	-	-	-	819979	812655	-	-	-	-				
						1.0	-	-	24.8	24.8	8.1	8.1	32.3	32.3	92.3	92.3	6.4	6.4	4.2	10	-	-	-	-	819979	812655	-	-	-	-				
						2.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Middle	2.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
	4.4	-	-	24.8	24.8	8.1	8.1	32.4	32.4	92.5	92.5	6.4	6.4	4.0	8	-	-	-	-	-	-	-	-	-	-	-	-	-						
	4.4	-	-	24.8	24.8	8.1	8.1	32.4	32.4	92.5	92.5	6.4	6.4	4.0	8	-	-	-	-	-	-	-	-	-	-	-	-	-						
SR2	Fine	Moderate	19:21	5.1	Surface	1.0	0.1	87	25.2	25.2	8.1	8.1	33.4	33.4	91.4	91.5	6.2	6.2	3.3	4	87	87	-	-	821470	814142	<0.2	0.7	0.7	0.7				
						1.0	0.1	88	25.2	25.2	8.1	8.1	33.4	33.4	91.5	91.5	6.2	6.2	3.3	5	87	87	-	-	821470	814142	<0.2	0.6	0.6	0.6				
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
	4.1	0.1	85	25.4	25.4	8.1	8.1	33.4	33.4	92.0	92.1	6.3	6.3	4.9	8	89	89	-	-	821470	814142	<0.2	0.7	0.7	0.7									
	4.1	0.1	91	25.4	25.4	8.1	8.1	33.4	33.4	92.1	92.1	6.3	6.3	5.0	7	89	89	-	-	821470	814142	<0.2	0.7	0.7	0.7									
Bottom	1.0	0.1	94	24.8	24.8	8.1	8.1	32.5	32.5	96.0	96.0	6.6	6.6	2.4	7	-	-	-	-	-	-	-	-	-	-	-	-	-						
	1.0	0.1	98	24.8	24.8	8.1	8.1	32.5	32.5	96.0	96.0	6.6	6.6	2.4	6	-	-	-	-	-	-	-	-	-	-	-	-	-						
	4.7	0.1	73	24.7	24.7	8.2	8.2	32.8	32.8	95.9	96.0	6.6	6.6	5.0	5	-	-	-	-	-	-	-	-	-	-	-	-							
SR3	Fine	Moderate	18:08	9.4	Middle	4.7	0.1	75	24.7	24.7	8.2	8.2	32.8	32.8	96.0	96.0	6.6	6.6	5.1	5.2	5	5	-	-	822129	807562	-	-	-	-				
						4.7	0.1	75	24.7	24.7	8.2	8.2	32.8	32.8	96.0	96.0	6.6	6.6	5.1	6	-	-	-	-	822129	807562	-	-	-	-				
						8.4	0.1	62	24.4	24.4	8.1	8.1	33.1	33.1	95.6	95.7	6.6	6.6	8.1	4	-	-	-	-	822129	807562	-	-	-	-				
Bottom	8.4	0.2	62	24.4	24.4	8.1	8.1	33.1	33.1	95.7	95.7	6.6	6.6	8.3	2	-	-	-	-	822129	807562	-	-	-	-									
	1.0	0.2	236	23.8	23.8	8.2	8.2	32.3	32.3	96.4	96.4	6.8	6.8	6.7	11	-	-	-	-	822129	807562	-	-	-	-									
	1.0	0.2	256	23.8	23.8	8.2	8.2	32.3	32.3	96.3	96.4	6.8	6.8	6.7	10	-	-	-	-	822129	807562	-	-	-	-									
SR4A	Cloudy	Moderate	19:17	8.8	Middle	4.4	0.2	249	23.8	23.8	8.2	8.2	32.3	32.3	95.9	95.9	6.7	6.7	6.2	6.5	10	10	-	-	817170	807789	-	-	-	-				
						4.4	0.2	254	23.8	23.8	8.2	8.2	32.3	32.3	95.9	95.9	6.7	6.7	6.3	10	-	-	-	-	817170	807789	-	-	-	-				
						7.8	0.1	300	23.8	23.8	8.2	8.2	32.4	32.3	95.8	95.8	6.7	6.7	6.4	9	-	-	-	-	817170	807789	-	-	-	-				
Bottom	7.8	0.1	300	23.8	23.8	8.2	8.2	32.4	32.3	95.8	95.8	6.7	6.7	6.4	9	-	-																	

Expansion of Hong Kong International Airport into a Three-Runway System  
 Water Quality Monitoring

Water Quality Monitoring Results on 27 October 20 during Mid-Ebb Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)	Current Speed (m/s)		Current Direction		Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity (NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)				
						Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA	
						Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA	Value
C1	Cloudy	Moderate	10:16	8.4	Surface	1.0	0.1	235	24.3	24.3	8.2	8.2	31.5	31.5	91.4	91.4	6.4	6.4	4.2	4.2	5	86	89	815596	804234	<0.2	0.9	0.9	0.9					
						1.0	0.1	248	24.3	24.3	8.2	8.2	31.5	31.5	91.3	91.3	6.4	6.4	4.3	4.3	6	88	88			<0.2	0.9	0.9	0.9					
						4.2	0.1	250	24.3	24.3	8.2	8.2	31.8	31.8	90.8	90.8	6.4	6.4	7.7	7.7	4	88	88			<0.2	0.9	0.9	0.9					
					Middle	4.2	0.1	269	24.3	24.3	8.2	8.2	31.8	31.8	90.9	90.9	6.4	6.4	8.0	8.0	3	89	89			<0.2	1.0	1.0	0.9	0.9				
						7.4	0.1	190	24.3	24.3	8.2	8.2	32.4	32.4	89.6	89.6	6.3	6.3	11.1	11.1	4	91	91			<0.2	0.9	0.9	0.9	0.9				
						7.4	0.1	205	24.3	24.3	8.2	8.2	32.4	32.4	89.6	89.6	6.3	6.3	11.0	11.0	3	90	90			<0.2	1.0	1.0	0.9	0.9				
					C2	Sunny	Moderate	11:26	11.6	Surface	1.0	0.7	177	24.8	24.8	8.3	8.3	29.0	29.0	98.8	98.8	7.0	7.0	3.1	3.1	3	85	88	825703	806926	<0.2	0.9	0.9	0.6
											1.0	0.8	178	24.8	24.8	8.3	8.3	29.0	29.0	98.7	98.7	6.9	6.9	3.2	3.2	4	86	87			<0.2	0.9	0.9	0.6
											5.8	0.4	173	24.5	24.5	8.2	8.2	31.8	31.8	91.8	91.8	6.4	6.4	7.9	7.9	3	87	89			<0.2	0.5	0.5	0.5
Middle	5.8	0.5	181	24.5						24.5	8.2	8.2	31.8	31.8	91.7	91.7	6.4	6.4	8.0	8.0	4	89	89			<0.2	0.5	0.5	0.5	0.5				
	10.6	0.2	165	24.5						24.5	8.2	8.2	31.9	31.9	91.5	91.5	6.4	6.4	8.5	8.5	5	90	90			<0.2	0.5	0.5	0.5	0.5				
	10.6	0.2	178	24.5						24.5	8.2	8.2	31.9	31.9	91.4	91.4	6.4	6.4	8.7	8.7	6	91	91			<0.2	0.5	0.5	0.5	0.5				
C3	Sunny	Moderate	09:15	12.4						Surface	1.0	0.3	71	24.7	24.7	8.2	8.2	32.3	32.3	91.5	91.5	6.3	6.3	3.4	3.4	4	86	88	822095	817825	<0.2	0.5	0.4	0.4
											1.0	0.3	71	24.7	24.7	8.2	8.2	32.3	32.3	91.4	91.4	6.3	6.3	3.4	3.4	5	87	88			<0.2	0.4	0.4	0.4
											6.2	0.3	66	24.6	24.6	8.2	8.2	32.4	32.4	90.1	90.1	6.2	6.2	3.6	3.6	3	88	88			<0.2	0.4	0.4	0.4
					Middle	6.2	0.3	71	24.6	24.6	8.2	8.2	32.4	32.4	90.1	90.1	6.2	6.2	3.6	3.6	4	88	88			<0.2	0.4	0.4	0.4	0.4				
						11.4	0.2	71	24.6	24.6	8.2	8.2	32.4	32.4	90.1	90.2	6.2	6.2	4.5	4.5	3	90	90			<0.2	0.4	0.4	0.4	0.4				
						11.4	0.2	77	24.6	24.6	8.2	8.2	32.4	32.4	90.2	90.2	6.3	6.3	4.6	4.6	4	90	90			<0.2	0.4	0.4	0.4	0.4				
					IM1	Cloudy	Moderate	10:36	5.2	Surface	1.0	0.1	200	24.4	24.4	8.1	8.1	31.4	31.4	100.7	100.7	7.0	7.0	9.2	9.2	3	88	89	817970	807132	<0.2	0.9	1.0	0.9
											1.0	0.1	201	24.4	24.4	8.1	8.1	31.4	31.4	100.6	100.6	7.0	7.0	9.3	9.3	2	87	89			<0.2	1.0	1.0	0.9
											-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Middle	-	-	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4.2	0.1	198	24.2						24.2	7.9	7.8	31.5	31.5	99.6	99.6	7.0	7.0	12.4	12.4	4	90	90			<0.2	0.9	0.9	0.9	0.9				
	4.2	0.1	200	24.2						24.2	7.8	7.8	31.5	31.5	99.6	99.6	7.0	7.0	12.7	12.7	4	90	90			<0.2	0.9	0.9	0.9	0.9				
IM2	Cloudy	Moderate	10:49	7.2						Surface	1.0	0.0	23	24.3	24.3	8.1	8.1	31.0	31.0	101.5	101.4	7.1	7.1	4.6	4.6	4	86	88	818153	806161	<0.2	0.9	1.0	1.0
											1.0	0.0	25	24.3	24.3	8.1	8.1	31.0	31.0	101.3	101.3	7.1	7.1	4.6	4.6	4	87	88			<0.2	0.9	1.0	1.0
											3.6	0.0	109	24.3	24.3	8.0	8.0	31.1	31.1	100.1	100.1	7.0	7.0	8.8	8.8	4	87	88			<0.2	0.9	1.0	1.0
					Middle	3.6	0.0	111	24.3	24.3	8.0	8.0	31.1	31.1	100.1	100.1	7.0	7.0	9.1	9.1	5	88	88			<0.2	0.9	1.0	1.0					
						6.2	0.1	21	24.1	24.1	7.9	7.9	31.5	31.5	98.9	98.9	6.9	6.9	15.1	15.1	5	90	90			<0.2	0.9	0.9	0.9					
						6.2	0.1	21	24.1	24.1	7.9	7.9	31.5	31.5	99.0	99.0	6.9	6.9	15.0	15.0	5	91	91			<0.2	0.9	0.9	0.9					
					IM3	Cloudy	Moderate	10:55	7.7	Surface	1.0	0.1	58	24.3	24.3	8.2	8.2	30.9	30.9	101.8	101.8	7.1	7.1	5.2	5.2	5	86	88	818767	805606	<0.2	0.8	1.0	0.9
											1.0	0.1	60	24.3	24.3	8.2	8.2	30.9	30.9	101.7	101.7	7.1	7.1	5.3	5.3	4	86	88			<0.2	1.0	1.0	0.9
											3.9	0.1	297	24.2	24.2	8.2	8.2	31.1	31.1	99.7	99.7	7.0	7.0	7.2	7.2	6	88	88			<0.2	0.9	0.9	0.9
Middle	3.9	0.1	322	24.2						24.2	8.2	8.2	31.1	31.1	99.7	99.7	7.0	7.0	7.4	7.4	5	87	88			<0.2	0.9	0.9	0.9					
	6.7	0.2	17	24.1						24.1	8.1	8.1	31.3	31.3	99.1	99.1	7.0	7.0	14.1	14.1	6	91	90			<0.2	0.9	0.9	0.9					
	6.7	0.2	17	24.1						24.1	8.1	8.1	31.3	31.3	99.1	99.1	7.0	7.0	14.0	14.0	7	90	90			<0.2	0.9	0.9	0.9					
IM4	Cloudy	Moderate	11:05	8.0						Surface	1.0	0.0	275	24.4	24.4	8.1	8.1	30.9	30.9	100.7	100.7	7.0	7.0	7.8	7.8	6	87	88	819748	804589	<0.2	1.0	0.9	0.9
											1.0	0.0	295	24.4	24.4	8.1	8.1	30.9	30.9	100.7	100.7	7.0	7.0	7.8	7.8	6	86	88			<0.2	0.9	0.9	0.9
											4.0	0.1	111	24.4	24.4	8.1	8.1	30.9	30.9	99.7	99.7	7.0	7.0	13.3	13.3	5	88	88			<0.2	0.9	0.9	0.9
					Middle	4.0	0.1	112	24.4	24.4	8.1	8.1	30.9	30.9	99.7	99.7	7.0	7.0	13.6	13.6	6	88	88			<0.2	1.0	1.0	0.9					
						7.0	0.1	29	24.2	24.2	7.9	7.9	31.3	31.3	98.9	98.9	6.9	6.9	17.7	17.7	4	90	90			<0.2	0.9	0.9	0.9					
						7.0	0.1	30	24.2	24.2	7.9	7.9	31.3	31.3	99.0	99.0	6.9	6.9	17.9	17.9	4	90	90			<0.2	0.9	0.9	0.9					
					IM5	Cloudy	Moderate	11:13	7.0	Surface	1.0	0.2	45	24.3	24.3	8.0	8.0	30.8	30.8	100.7	100.8	7.1	7.1	9.0	9.0	2	86	88	820736	804878	<0.2	0.9	0.8	0.9
											1.0	0.2	46	24.3	24.3	8.1	8.1	30.8	30.8	100.8	100.8	7.1	7.1	9.1	9.1	3	87	88			<0.2	0.8	0.9	0.9
											3.5	0.2	25	24.2	24.2	8.0	8.0	30.8	30.8	99.7	99.8	7.0	7.0	10.6	10.6	3	88	88			<0.2	0.9	0.9	0.9
Middle	3.5	0.2	27	24.2						24.2	8.0	8.0	30.8	30.8	99.8	99.8	7.0	7.0	10.6	10.6	2	87	88			<0.2	0.8	0.9	0.9					
	6.0	0.3	77	24.2						24.2	7.9	7.9	30.8	30.8	99.4	99.5	7.0	7.0	13.1	13.1	4	90	90			<0.2	0.9	0.9	0.9					
	6.0	0.3	82	24.2						24.2	7.9	7.9	30.8	30.8	99.5	99.5	7.0	7.0	13.0	13.0	3	90	90			<0.2	0.8	0.9	0.9					
IM6	Cloudy	Moderate	11:20	7.7						Surface	1.0	0.2	246	24.6	24.6	8.0	8.0	31.1	31.1	100.0	100.0	7.0	7.0	2.7	2.7	3	86	89	82106					





Expansion of Hong Kong International Airport into a Three-Runway System

Water Quality Monitoring

Water Quality Monitoring Results on 27 October 20 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)	Current Speed (m/s)		Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity (NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)							
						Value	Average		Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA				
						Value	Average		Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA	Value	DA		
C1	Cloudy	Moderate	17:01	8.7	Surface	1.0	0.4	99	24.5	24.5	8.0	8.0	31.5	31.5	107.9	107.9	7.5	3.0	3	87	89	89	89	89	89	815625	804246	<0.2	0.8	0.9	0.9					
						1.0	0.4	104	24.5	24.5	8.0	8.0	31.5	31.5	107.9	107.9	7.5	3.0	3	88	88	88	88	88	88	88	88	88	88	88	88	88	88			
					Middle	4.4	0.3	60	24.5	24.5	8.1	8.1	31.7	31.6	107.3	107.3	7.5	4.3	3	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	
						4.4	0.3	65	24.5	24.5	8.1	8.1	31.6	31.6	107.2	107.2	7.5	4.4	3	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	
					Bottom	7.7	0.2	72	24.4	24.4	8.1	8.1	33.1	33.1	105.9	106.0	7.3	7.7	4	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	
						7.7	0.2	72	24.4	24.4	8.1	8.1	33.1	33.1	106.0	106.0	7.3	7.6	4	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	
C2	Cloudy	Moderate	15:45	11.2	Surface	1.0	0.3	219	25.0	25.0	8.2	8.2	27.2	27.2	100.4	100.3	7.1	3.5	2	86	86	86	86	86	86	825690	806924	<0.2	0.6	0.7	0.7					
						1.0	0.3	227	24.9	24.9	8.2	8.2	27.2	27.2	100.1	100.1	7.1	3.6	3	88	88	88	88	88	88	88	88	88	88	88	88	88	88			
					Middle	5.6	0.3	242	24.6	24.6	8.2	8.2	30.6	30.6	92.3	92.3	6.5	5.1	3	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	
						5.6	0.3	254	24.6	24.6	8.2	8.2	30.6	30.6	92.2	92.2	6.5	5.1	3	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	
					Bottom	10.2	0.2	289	24.6	24.6	8.2	8.2	31.2	31.2	91.7	91.7	6.4	9.2	4	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90
						10.2	0.2	311	24.6	24.6	8.2	8.2	31.2	31.2	91.7	91.7	6.4	9.3	3	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	
C3	Cloudy	Moderate	17:39	11.8	Surface	1.0	0.5	262	24.7	24.7	8.2	8.2	31.8	31.8	98.2	98.2	6.8	2.9	5	86	86	86	86	86	86	822094	817822	<0.2	0.7	0.7	0.7					
						1.0	0.5	276	24.7	24.7	8.2	8.2	31.9	31.8	98.0	98.0	6.8	3.1	4	87	87	87	87	87	87	87	87	87	87	87	87	87	87			
					Middle	5.9	0.5	258	24.6	24.6	8.2	8.2	32.2	32.2	92.8	92.8	6.4	5.1	4	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	
						5.9	0.5	275	24.6	24.6	8.2	8.2	32.2	32.2	92.8	92.8	6.4	5.3	3	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	
					Bottom	10.8	0.4	254	24.6	24.6	8.2	8.2	32.2	32.2	93.4	93.5	6.5	6.8	3	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	
						10.8	0.4	257	24.7	24.7	8.2	8.2	32.2	32.2	93.6	93.6	6.5	7.0	2	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	
IM1	Cloudy	Moderate	16:40	5.3	Surface	1.0	0.1	18	24.7	24.7	8.0	8.0	31.3	31.3	109.4	109.4	7.6	6.2	4	89	89	89	89	89	89	817938	807119	<0.2	0.9	1.0	1.0					
						1.0	0.1	18	24.7	24.7	8.0	8.0	31.3	31.3	109.4	109.4	7.6	6.3	4	88	88	88	88	88	88	88	88	88	88	88	88	88	88			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
					Bottom	4.3	0.1	25	24.7	24.7	7.9	7.9	31.2	31.2	108.7	108.7	7.6	11.2	3	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91		
						4.3	0.1	26	24.7	24.7	7.9	7.9	31.2	31.2	108.7	108.7	7.6	10.9	3	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	
IM2	Cloudy	Moderate	16:32	7.8	Surface	1.0	0.3	342	24.5	24.5	8.2	8.2	31.1	31.1	107.2	107.2	7.5	7.3	2	87	87	87	87	87	87	818179	806148	<0.2	0.9	1.0	0.9					
						1.0	0.3	353	24.5	24.5	8.2	8.2	31.1	31.1	107.1	107.1	7.5	7.3	3	87	87	87	87	87	87	87	87	87	87	87	87	87	87			
					Middle	3.9	0.1	14	24.5	24.5	8.2	8.2	31.2	31.2	105.9	105.9	7.4	9.7	2	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88		
						3.9	0.1	14	24.5	24.5	8.2	8.2	31.2	31.2	105.8	105.8	7.4	9.9	4	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90		
					Bottom	6.8	0.2	348	24.4	24.4	8.2	8.2	31.5	31.5	104.5	104.5	7.3	13.3	4	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91		
						6.8	0.2	320	24.4	24.4	8.2	8.2	31.5	31.5	104.5	104.5	7.3	13.1	4	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91		
IM3	Cloudy	Moderate	16:22	7.6	Surface	1.0	0.2	8	24.4	24.4	8.1	8.1	31.3	31.3	106.1	106.1	7.4	9.9	3	88	88	88	88	88	88	818792	805599	<0.2	0.9	0.9	0.9					
						1.0	0.3	8	24.4	24.4	8.1	8.1	31.3	31.3	106.1	106.1	7.4	9.9	4	88	88	88	88	88	88	88	88	88	88	88	88	88	88			
					Middle	3.8	0.3	37	24.5	24.5	8.0	8.0	31.3	31.3	106.1	106.1	7.4	13.3	4	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89		
						3.8	0.3	37	24.5	24.5	8.0	8.0	31.3	31.3	106.0	106.0	7.4	13.4	5	90	90	90	90	90	90	90	90	90	90	90	90	90	90			
					Bottom	6.6	0.4	13	24.5	24.5	8.0	7.9	31.7	31.7	105.2	105.3	7.3	16.5	4	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91		
						6.6	0.4	13	24.5	24.5	7.9	7.9	31.7	31.7	105.3	105.3	7.3	16.3	5	92	92	92	92	92	92	92	92	92	92	92	92	92	92			
IM4	Cloudy	Moderate	16:12	8.7	Surface	1.0	0.2	23	24.6	24.6	8.2	8.2	31.3	31.3	108.2	108.2	7.5	5.0	3	87	87	87	87	87	87	819747	804625	<0.2	0.9	0.9	0.9					
						1.0	0.2	23	24.6	24.6	8.2	8.2	31.3	31.3	108.2	108.2	7.5	5.0	2	88	88	88	88	88	88	88	88	88	88	88	88	88				
					Middle	4.4	0.3	11	24.5	24.5	8.2	8.2	31.6	31.6	105.6	105.6	7.3	6.9	2	89	89	89	89	89	89	89	89	89	89	89	89	89	89			
						4.4	0.3	11	24.5	24.5	8.2	8.2	31.6	31.6	105.5	105.5	7.3	7.0	2	90	90	90	90	90	90	90	90	90	90	90	90	90				
					Bottom	7.7	0.2	48	24.5	24.5	8.2	8.2	32.0	32.0	104.6	104.6	7.3	8.5	2	91	91	91	91	91	91	91	91	91	91	91	91	91	91			
						7.7	0.2	50	24.5	24.5	8.2	8.2	32.0	32.0	104.6	104.6	7.3	8.2	2	91	91	91	91	91	91	91	91	91	91	91	91	91				
IM5	Cloudy	Moderate	16:03	8.1	Surface	1.0	0.5	13	24.5	24.5	8.1	8.1	31.1	31.1	107.0	107.0	7.5	8.6	3	87	87	87	87	87	87	820737	804846	<0.2	0.9	0.9	0.9					
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Expansion of Hong Kong International Airport into a Three-Runway System  
Water Quality Monitoring

Water Quality Monitoring Results on 27 October 20 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)	Current		Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity (NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)						
						Speed (m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA			
						Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA	Value	DA	
IM9	Cloudy	Moderate	16:05	7.1	Surface	1.0	0.4	288	25.4	25.4	8.3	8.3	26.7	26.7	105.8	105.7	7.5	7.5	3.1	3.1	4	4	86	86	88	88	822079	808818	<0.2	1.4	<0.2	1.3		
						1.0	0.4	297	25.4	25.4	8.3	8.3	26.7	26.7	105.6	105.6	7.4	7.4	3.1	3.1	3	3	87	87	88	88	822079	808818	<0.2	1.4	<0.2	1.4		
					Middle	3.6	0.4	294	25.2	25.2	8.3	8.3	28.7	28.8	103.5	103.4	7.2	7.2	3.3	3.3	2	2	88	88	89	89	822079	808818	<0.2	1.4	<0.2	1.4		
						3.6	0.4	307	25.2	25.2	8.3	8.3	28.9	28.9	103.2	103.2	7.2	7.2	3.4	3.4	3	3	88	88	89	89	822079	808818	<0.2	1.4	<0.2	1.4		
					Bottom	6.1	0.3	293	25.1	25.1	8.3	8.3	29.7	29.7	102.0	102.0	7.1	7.1	4.0	4.0	2	2	90	90	90	90	822079	808818	<0.2	1.4	<0.2	1.4		
						6.1	0.3	317	25.1	25.1	8.3	8.3	29.7	29.7	101.9	101.9	7.1	7.1	4.0	4.0	2	2	90	90	90	90	822079	808818	<0.2	1.4	<0.2	1.4		
IM10	Cloudy	Moderate	16:10	7.2	Surface	1.0	0.4	275	25.3	25.3	8.3	8.3	29.5	29.5	104.9	104.8	7.3	7.3	3.0	3.0	<2	<2	86	86	89	89	822398	809791	<0.2	0.9	<0.2	0.9		
						1.0	0.5	295	25.3	25.3	8.3	8.3	29.5	29.5	104.7	104.7	7.3	7.3	3.1	3.1	<2	<2	87	87	88	88	822398	809791	<0.2	0.9	<0.2	0.9		
					Middle	3.6	0.5	274	25.1	25.1	8.3	8.3	29.9	29.9	103.4	103.2	7.2	7.2	3.4	3.4	<2	<2	88	88	89	89	822398	809791	<0.2	0.9	<0.2	0.9		
						3.6	0.6	286	25.1	25.1	8.3	8.3	29.9	29.9	103.0	103.0	7.2	7.2	3.5	3.5	<2	<2	89	89	90	90	822398	809791	<0.2	1.0	<0.2	1.0		
					Bottom	6.2	0.4	273	25.1	25.1	8.3	8.3	30.0	30.0	102.0	102.0	7.1	7.1	4.0	4.0	<2	<2	90	90	91	91	822398	809791	<0.2	1.0	<0.2	1.0		
						6.2	0.4	295	25.1	25.1	8.3	8.3	30.0	30.0	101.9	101.9	7.1	7.1	4.0	4.0	<2	<2	91	91	91	91	822398	809791	<0.2	1.0	<0.2	1.0		
IM11	Cloudy	Moderate	16:27	7.5	Surface	1.0	0.4	287	25.0	25.0	8.3	8.3	30.0	30.0	105.8	105.1	7.4	7.4	3.0	3.0	4	4	87	87	89	89	822058	811467	<0.2	0.9	<0.2	0.9		
						1.0	0.5	313	24.9	24.9	8.3	8.3	30.1	30.1	104.4	104.4	7.3	7.3	2.9	2.9	5	5	87	87	88	88	822058	811467	<0.2	1.0	<0.2	1.0		
					Middle	3.8	0.5	299	24.8	24.8	8.3	8.3	30.3	30.3	102.0	101.9	7.1	7.1	3.7	3.7	3	3	88	88	89	89	822058	811467	<0.2	0.9	<0.2	0.9		
						3.8	0.5	322	24.7	24.7	8.3	8.3	30.3	30.3	101.7	101.7	7.1	7.1	3.8	3.8	3	3	89	89	90	90	822058	811467	<0.2	0.9	<0.2	0.9		
					Bottom	6.5	0.4	306	24.7	24.7	8.3	8.3	30.4	30.4	100.7	100.7	7.0	7.0	5.2	5.2	3	3	90	90	91	91	822058	811467	<0.2	1.0	<0.2	1.0		
						6.5	0.4	324	24.7	24.7	8.3	8.3	30.4	30.4	100.6	100.6	7.0	7.0	5.2	5.2	3	3	92	92	92	92	822058	811467	<0.2	0.9	<0.2	0.9		
IM12	Cloudy	Moderate	16:35	8.2	Surface	1.0	0.2	176	25.0	25.0	8.3	8.3	30.0	30.1	105.6	105.4	7.4	7.4	2.8	2.8	4	4	86	86	88	88	821444	812055	<0.2	1.0	<0.2	0.9		
						1.0	0.2	180	25.0	25.0	8.3	8.3	30.1	30.1	105.1	105.1	7.3	7.3	2.9	2.9	3	3	86	86	87	87	821444	812055	<0.2	0.9	<0.2	0.9		
					Middle	4.1	0.1	181	24.9	24.9	8.3	8.3	30.8	30.8	103.0	103.0	7.2	7.2	4.7	4.7	4	4	87	87	89	89	821444	812055	<0.2	0.9	<0.2	0.9		
						4.1	0.1	188	24.9	24.9	8.3	8.3	30.9	30.8	102.9	102.9	7.2	7.2	4.7	4.7	3	3	89	89	90	90	821444	812055	<0.2	0.9	<0.2	0.9		
					Bottom	7.2	0.2	185	24.8	24.8	8.3	8.3	31.6	31.6	97.9	98.0	6.8	6.8	8.7	8.7	2	2	90	90	91	91	821444	812055	<0.2	0.9	<0.2	0.9		
						7.2	0.2	188	24.8	24.8	8.3	8.3	31.6	31.6	98.0	98.0	6.8	6.8	8.8	8.8	2	2	91	91	91	91	821444	812055	<0.2	0.9	<0.2	0.9		
SR1A	Cloudy	Moderate	16:59	5.1	Surface	1.0	-	-	25.2	25.2	8.3	8.3	30.7	30.7	106.2	105.8	7.3	7.3	3.3	3.3	4	4	-	-	-	-	819980	812658	-	-	-	-		
						1.0	-	-	25.2	25.2	8.3	8.3	30.8	30.7	105.4	105.4	7.3	7.3	3.4	3.4	4	4	-	-	-	-	-	-	819980	812658	-	-	-	-
					Middle	2.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
						2.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					Bottom	4.1	-	-	25.2	25.2	8.3	8.3	31.1	31.1	101.2	101.3	7.0	7.0	3.7	3.7	2	2	-	-	-	-	-	-	-	-	-	-	-	-
						4.1	-	-	25.2	25.2	8.3	8.3	31.1	31.1	101.3	101.3	7.0	7.0	3.7	3.7	2	2	-	-	-	-	-	-	-	-	-	-	-	-
SR2	Cloudy	Moderate	17:12	3.7	Surface	1.0	0.2	178	24.8	24.9	8.3	8.3	31.3	31.3	100.7	100.7	7.0	7.0	4.5	4.5	2	2	88	87	89	89	821475	814178	<0.2	0.7	<0.2	0.7		
						1.0	0.2	180	24.9	24.9	8.3	8.3	31.3	31.3	100.6	100.6	7.0	7.0	4.5	4.5	2	2	87	87	88	88	821475	814178	<0.2	0.7	<0.2	0.7		
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					Bottom	2.7	0.2	177	24.9	24.9	8.3	8.3	31.3	31.3	99.5	99.3	6.9	6.9	4.7	4.7	4	4	90	90	91	91	821475	814178	<0.2	0.7	<0.2	0.7		
						2.7	0.2	189	24.9	24.9	8.3	8.3	31.3	31.3	99.0	99.0	6.9	6.9	4.7	4.7	4	4	90	90	90	90	821475	814178	<0.2	0.7	<0.2	0.7		
SR3	Cloudy	Moderate	15:53	8.0	Surface	1.0	0.2	145	25.3	25.3	8.3	8.3	26.2	26.1	103.9	103.7	7.4	7.4	3.4	3.4	4	4	-	-	-	-	822129	807548	-	-	-	-		
						1.0	0.2	155	25.2	25.2	8.3	8.3	26.1	26.1	103.4	103.4	7.3	7.3	3.4	3.4	3	3	-	-	-	-	-	-	822129	807548	-	-	-	-
					Middle	4.0	0.1	87	25.0	25.0	8.3	8.3	28.9	28.9	101.5	101.5	7.1	7.1	4.3	4.3	3	3	-	-	-	-	-	-	-	-	-	-	-	-
						4.0	0.1	89	25.0	25.0	8.3	8.3	28.9	28.9	101.4	101.4	7.1	7.1	4.6	4.6	4	4	-	-	-	-	-	-	-	-	-	-	-	-
					Bottom	7.0	0.1	330	25.0	25.0	8.3	8.3	29.0	29.0	100.9	100.9	7.1	7.1	5.2	5.2	2	2	-	-	-	-	-	-	-	-	-	-	-	-
						7.0	0.1	335	25.0	25.0	8.3	8.3	29.0	29.0	100.8	100.8	7.1	7.1	5.1	5.1	2	2	-	-	-	-	-	-	-	-	-	-	-	-
SR4A	Cloudy	Moderate	17:37	9.3	Surface	1.0	0.1	55	24.6	24.6	8.1	8.1	31.2	31.2	108.7	108.7	7.6	7.6	7.0	7.0	3	3	-	-	-	-	817200	807813	-	-	-	-		
						1.0	0.1	59	24.6	24.6	8.1	8.1	31.2	31.2	108.6	108.6	7.6	7.6	7.1	7.1	4	4	-	-	-	-	-	-	817200	807813	-	-	-	-
					Middle	4.7	0.2	76	24.6	24.6	8.1	8.1	31.3	31.3	108.6	108.6	7.5	7.5	8.2	8.2	4	4	-	-	-	-	-	-	-	-	-	-	-	-
						4.7	0.2	77	24.6	24.6	8.1	8.1	31.3	31.3	108.5	108.5	7.5	7.5	8.3	8.3	4	4	-	-	-	-	-	-	-	-	-	-	-	-
					Bottom	8.3	0.3	89	24.6	24.6	8.0	8.0	31.3	31.3	108.6	108.6	7.5	7.5	9.4	9.4	5	5	-	-	-	-	-	-	-	-	-	-	-	-
						8.3	0.3	94	24.6	24.6	8.0	8.0	31.3	31.3	108.6	108.6	7.5	7.5	9.5	9.5	5	5	-	-	-	-	-	-	-	-	-	-	-	-
SR5A	Cloudy	Moderate	17:54	3.8	Surface	1.0	0.0	300	24.9	24.9	8.0	8.0	31.1	31.1	105.2	105.2	7.3	7.3	4.6	4.6	4	4	-	-	-	-	816597	810716	-	-	-	-		
						1.0	0.0	326	24.9	24.9	8.0	8.0	31.1	31.1																				

Expansion of Hong Kong International Airport into a Three-Runway System  
Water Quality Monitoring

Water Quality Monitoring Results on 29 October 20 during Mid-Ebb Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)	Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity (NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)													
								Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA										
C1	Cloudy	Moderate	11:39	8.7	Surface	1.0	0.3	214	24.8	24.8	8.2	8.2	33.1	33.1	96.7	96.7	6.6	6.6	3.0	6	86	86	88	88	815599	804229	<0.2	<0.2	0.8	0.8											
						1.0	0.3	227	24.8	8.2	8.2	33.1	33.1	96.6	96.6	6.6	6.6	3.1	8	85	85	88	88																		
						4.4	0.3	218	24.8	8.2	8.2	33.3	33.3	94.4	94.5	6.5	6.5	6.4	7	88	88	88	88																		
					Middle	4.4	0.3	225	24.8	8.2	8.2	33.3	33.3	94.5	94.5	6.5	6.5	6.3	7	87	87	88	88	88							88										
						7.7	0.3	206	24.8	8.2	8.2	33.4	33.4	94.2	94.2	6.5	6.5	11.3	7	90	90	88	88																		
						7.7	0.3	218	24.8	8.2	8.2	33.4	33.4	94.2	94.2	6.5	6.5	11.3	7	91	91	88	88																		
					C2	Cloudy	Moderate	12:33	12.4	Surface	1.0	0.3	165	24.7	24.7	8.2	8.2	29.9	29.9	93.6	93.6	6.6	6.6	4.7							4	85	85	88	88	825689	806924	<0.2	<0.2	0.8	0.8
											1.0	0.3	177	24.7	8.2	8.2	29.9	29.9	93.5	93.5	6.6	6.6	4.8	4							86	86	88	88							
											6.2	0.1	210	24.7	8.2	8.2	30.1	30.1	93.1	93.1	6.5	6.5	5.2	4							87	87	88	88							
Middle	6.2	0.1	218	24.7						8.2	8.2	30.1	30.1	93.0	93.0	6.5	6.5	5.3	5	89	89	88	88																		
	11.4	0.1	161	24.7						8.2	8.2	31.2	31.2	91.1	91.2	6.3	6.3	6.5	6	90	90	88	88																		
	11.4	0.2	165	24.7						8.2	8.2	31.2	31.2	91.2	91.2	6.4	6.4	6.5	5	91	91	88	88																		
C3	Cloudy	Moderate	10:34	12.5						Surface	1.0	0.4	67	24.7	24.7	8.2	8.2	31.7	31.7	90.8	90.8	6.3	6.3	3.7	7	86	86	88	88	822096	817816	0.4	0.4	0.7	0.7						
											1.0	0.4	71	24.7	8.2	8.2	31.7	31.7	90.7	90.7	6.3	6.3	4.0	8	87	87	88	88													
											6.3	0.3	88	24.7	8.2	8.2	32.1	32.1	87.5	87.5	6.1	6.1	8.2	6	88	88	88	88													
					Middle	6.3	0.3	96	24.7	8.2	8.2	32.1	32.1	87.5	87.5	6.1	6.1	8.5	7	88	88	88	88																		
						11.5	0.3	43	24.8	8.2	8.2	32.3	32.3	87.0	87.1	6.0	6.0	7.3	6	90	90	88	88																		
						11.5	0.3	45	24.8	8.2	8.2	32.3	32.3	87.1	87.1	6.0	6.0	6.8	5	90	90	88	88																		
					IM1	Cloudy	Moderate	12:03	5.1	Surface	1.0	0.1	182	24.9	24.9	8.2	8.2	32.6	32.6	97.3	97.3	6.7	6.7	3.5	9	87	87	88	88							817950	807152	<0.2	<0.2	0.6	0.6
											1.0	0.1	182	24.9	8.2	8.2	32.6	32.6	97.2	97.2	6.7	6.7	3.5	9	88	88	88	88													
											-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-												
Middle	-	-	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
	4.1	0.1	273	24.9						8.2	8.2	32.7	32.7	95.8	95.9	6.6	6.6	5.1	12	89	89	88	88																		
	4.1	0.1	294	24.9						8.2	8.2	32.7	32.7	95.9	95.9	6.6	6.6	4.9	11	89	89	88	88																		
IM2	Cloudy	Moderate	12:12	7.0						Surface	1.0	0.2	172	24.9	24.9	8.2	8.2	32.6	32.6	98.3	98.2	6.8	6.8	1.8	7	85	85	88	88	818175	806163	<0.2	<0.2	0.5	0.5						
											1.0	0.2	185	24.9	8.2	8.2	32.6	32.6	98.1	98.2	6.8	6.8	1.9	6	86	86	88	88													
											3.5	0.1	171	24.8	8.2	8.2	32.6	32.6	97.0	97.0	6.7	6.7	5.3	6	88	88	88	88													
					Middle	3.5	0.1	171	24.8	8.2	8.2	32.6	32.6	97.0	97.0	6.7	6.7	5.1	7	87	87	88	88																		
						6.0	0.1	141	24.8	8.2	8.2	32.8	32.8	93.9	93.9	6.5	6.5	11.9	7	90	90	88	88																		
						6.0	0.1	152	24.8	8.2	8.2	32.8	32.8	93.9	93.9	6.5	6.5	11.9	8	90	90	88	88																		
					IM3	Cloudy	Moderate	12:20	7.2	Surface	1.0	0.4	132	24.9	24.9	8.2	8.2	32.2	32.2	96.7	96.7	6.7	6.7	3.5	8	86	86	88	88							818780	805610	<0.2	<0.2	0.6	0.6
											1.0	0.4	140	24.9	8.2	8.2	32.2	32.2	96.7	96.7	6.7	6.7	3.6	9	85	85	88	88													
											3.6	0.3	133	24.9	8.2	8.2	32.4	32.4	95.5	95.5	6.6	6.6	4.8	8	88	88	88	88													
Middle	3.6	0.3	144	24.9						8.2	8.2	32.4	32.4	95.4	95.4	6.6	6.6	4.9	7	88	88	88	88																		
	6.2	0.2	105	24.8						8.2	8.2	32.8	32.8	94.4	94.4	6.5	6.5	6.3	6	90	90	88	88																		
	6.2	0.2	106	24.8						8.2	8.2	32.8	32.8	94.4	94.4	6.5	6.5	6.3	6	90	90	88	88																		
IM4	Cloudy	Moderate	12:31	8.4						Surface	1.0	0.7	182	24.9	24.9	8.2	8.2	32.3	32.3	98.5	98.5	6.8	6.8	3.4	7	85	85	88	88	819720	804616	<0.2	<0.2	0.6	0.6						
											1.0	0.7	190	24.9	8.2	8.2	32.3	32.3	98.5	98.5	6.8	6.8	3.4	8	85	85	88	88													
											4.2	0.6	179	24.9	8.2	8.2	32.3	32.3	98.3	98.4	6.8	6.8	4.2	8	87	87	88	88													
					Middle	4.2	0.7	195	24.9	8.2	8.2	32.3	32.3	98.4	98.4	6.8	6.8	4.2	9	88	88	88	88																		
						7.4	0.6	180	24.9	8.2	8.2	32.3	32.3	98.3	98.3	6.8	6.8	5.1	10	90	90	88	88																		
						7.4	0.6	193	24.9	8.2	8.2	32.3	32.3	98.3	98.3	6.8	6.8	5.2	10	90	90	88	88																		
					IM5	Cloudy	Moderate	12:44	6.9	Surface	1.0	0.7	202	24.9	24.9	8.2	8.2	31.9	31.9	99.5	99.4	6.9	6.9	2.1	10	86	86	88	88							820738	804847	<0.2	<0.2	0.6	0.6
											1.0	0.8	212	24.9	8.2	8.2	31.9	31.9	99.3	99.3	6.9	6.9	2.1	11	86	86	88	88													
											3.5	0.6	204	24.9	8.2	8.2	32.1	32.1	98.6	98.6	6.8	6.8	2.8	8	88	88	88	88													
Middle	3.5	0.6	215	24.9						8.2	8.2	32.1	32.1	98.6	98.6	6.8	6.8	2.9	8	88	88	88	88																		
	5.9	0.5	208	24.9						8.2	8.2	32.2	32.2	98.1	98.1	6.8	6.8	4.1	6	91	91	88	88																		
	5.9	0.5	220	24.9						8.2	8.2	32.2	32.2	98.1	98.1	6.8	6.8	4.1	6	90	90	88	88																		
IM6	Cloudy	Moderate	12:53	7.2						Surface	1.0	0.5	229	25.2	25.2	8.2	8.2	30.9	30.9	100.6	100.6	7.0	7.0	0.7	4	85	85	88	88	821083	805821	<0.2	<0.2	0.6	0.6						
											1.0	0.6	242	25.2	8.2	8.2	30.9	30.9	100.6	100.6	7.0	7.0	0.7	5	86	86	88	88													
											3.6	0.5	230	25.1	8.2	8.2	31.4	31.4	99.8	99.8	6.9	6.9	1.3	5	88	88	88	88													
					Middle	3.6	0.5	235	25.1	8.2	8.2	31.4	31.4	99.7	99.7	6.9	6.9	1.4	6	88	88	88	88																		
						6.2	0.4	231	24.9	8.2	8.2	32.1	32.1	98.5	98.5	6.8	6.8	3.3	8	90	90	88	88																		
						6.2	0.4	236	24.9	8.2	8.2	32.1	32.1	98.5	98.5	6.8	6.8	3.3	7	91	91	88	88																		
					IM7	Cloudy	Moderate	13:03	8.1	Surface	1.0	0.4	238	25.1	25.1	8.2	8.2	30.9	30.9	100.2	100.2	6.9	6.9	0.8	4	86	86	88	88							821337	806822	<0.2	<0.2	0.7	0.7
											1.0	0.4	257	25.1	8.2	8.2	30.9	30.9	100.1	100.1	6.9	6.9	0.8	4	85	85	88	88													
											4.1	0.3	254	25.1	8.2	8.2	31.5	31.5	98.7	98.7	6.8	6.8	1.5	5	88	88	88	88													
Middle	4.1	0.3	257	25.1						8.2	8.2	31.5	31.5	98.7	98.7	6.8	6.8	1.5	6	88	88	88	88																		
	7.1	0.2	256	24.9						8.2	8.2	32.3	32.3	97.3	97.3	6.7	6.7	2.2	5	91	91	88																			



Expansion of Hong Kong International Airport into a Three-Runway System  
Water Quality Monitoring

Water Quality Monitoring Results on 29 October 20 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)	Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity (NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)			
								Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA
C1	Cloudy	Moderate	17:38	7.8	Surface	1.0	0.3	84	24.9	24.9	8.2	8.2	32.2	32.2	99.1	99.1	6.8	6.8	4.2	8	86	88	88	88	815613	804252	<0.2	0.6	<0.2	0.5	
						1.0	0.3	89	24.9	8.2	8.2	32.2	32.2	99.0	99.0	6.8	6.8	4.4	8	85	88	88	88	<0.2			0.4	<0.2	0.5		
						3.9	0.2	59	24.9	8.2	8.2	32.5	32.5	97.4	97.3	6.7	6.7	6.1	9	88	88	88	88	<0.2			0.5	<0.2	0.6		
					3.9	0.2	61	24.9	8.2	8.2	32.5	32.5	97.2	97.2	6.7	6.7	6.0	8	88	88	88	88	<0.2	0.5			<0.2	0.6			
					6.8	0.3	31	24.9	8.2	8.2	32.7	32.7	96.1	96.1	6.6	6.6	6.4	10	91	91	91	91	<0.2	0.6			<0.2	0.5			
					6.8	0.3	34	24.9	8.2	8.2	32.7	32.7	96.1	96.1	6.6	6.6	6.5	9	91	91	91	91	<0.2	0.5			<0.2	0.6			
					1.0	0.5	344	24.8	24.8	8.3	8.3	28.5	28.4	97.8	97.8	6.9	6.9	2.8	5	86	88	88	88	<0.2			0.6	<0.2	0.7		
					1.0	0.5	316	24.8	24.8	8.3	8.3	28.4	28.4	97.8	97.8	6.9	6.9	2.8	4	88	88	88	88	<0.2			0.7	<0.2	0.8		
					5.6	0.6	321	24.7	24.7	8.3	8.3	29.9	29.9	95.0	95.0	6.7	6.7	4.2	5	89	89	89	89	<0.2			0.8	<0.2	0.9		
5.6	0.6	349	24.7	24.7	8.3	8.3	29.9	29.9	95.0	95.0	6.7	6.7	4.2	5	88	88	88	88	<0.2	0.9	<0.2	0.9									
10.1	0.4	333	24.7	24.7	8.3	8.3	30.2	30.2	93.2	93.2	6.5	6.5	8.2	6	90	90	90	90	<0.2	0.9	<0.2	0.9									
10.1	0.4	349	24.7	24.7	8.3	8.3	30.2	30.2	93.2	93.2	6.5	6.5	8.6	5	91	91	91	91	<0.2	0.8	<0.2	0.8									
C2	Cloudy	Moderate	16:35	11.1	Surface	1.0	0.6	280	24.6	24.6	8.3	8.3	31.1	31.2	93.3	93.3	6.5	6.5	3.4	6	86	88	88	88	825666	806944	<0.2	1.1	<0.2	1.0	
						1.0	0.6	306	24.6	24.6	8.3	8.3	31.2	31.2	93.2	93.2	6.5	6.5	3.5	5	87	88	88	88			<0.2	1.0	<0.2	1.0	
						6.1	0.5	286	24.7	24.7	8.2	8.2	31.7	31.8	89.6	89.6	6.2	6.2	4.6	7	88	88	88	88			<0.2	1.0	<0.2	1.0	
					6.1	0.5	295	24.7	24.7	8.2	8.2	31.8	31.8	89.6	89.6	6.2	6.2	4.7	6	89	89	89	89	<0.2			1.0	<0.2	1.0		
					11.2	0.3	289	24.7	24.7	8.2	8.2	31.9	31.9	89.8	89.8	6.2	6.2	7.2	7	90	90	90	90	<0.2			1.0	<0.2	1.0		
					11.2	0.3	295	24.7	24.7	8.2	8.2	31.9	31.9	89.9	89.9	6.2	6.2	7.4	6	90	90	90	90	<0.2			1.0	<0.2	1.0		
					1.0	0.2	331	24.9	24.9	8.2	8.2	32.5	32.5	100.3	100.3	6.9	6.9	1.3	4	86	88	88	88	<0.2			0.8	<0.2	0.8		
					1.0	0.2	336	24.9	24.9	8.2	8.2	32.5	32.5	100.1	100.1	6.9	6.9	1.3	5	87	87	87	87	<0.2			0.8	<0.2	0.8		
					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-	-
3.6	0.2	279	24.9	24.9	8.2	8.2	32.7	32.7	96.0	96.0	6.6	6.6	3.8	5	89	89	89	89	<0.2	0.8	<0.2	0.6									
3.6	0.2	295	24.9	24.9	8.2	8.2	32.7	32.7	95.9	95.9	6.6	6.6	4.2	5	88	88	88	88	<0.2	0.6	<0.2	0.6									
IM2	Cloudy	Moderate	17:08	6.4	Surface	1.0	0.3	28	25.0	25.0	8.2	8.2	32.0	32.0	101.2	101.2	7.0	7.0	2.9	7	84	84	84	84	818179	806187	<0.2	0.8	<0.2	0.8	
						1.0	0.4	30	25.0	25.0	8.2	8.2	32.0	32.0	101.2	101.2	7.0	7.0	3.0	7	84	84	84	84			<0.2	0.8	<0.2	0.8	
						3.2	0.4	11	25.0	25.0	8.2	8.2	32.1	32.1	100.6	100.6	6.9	6.9	3.9	8	87	87	87	87			<0.2	0.7	<0.2	0.7	
					3.2	0.4	11	25.0	25.0	8.2	8.2	32.1	32.1	100.6	100.6	6.9	6.9	3.8	7	86	86	86	86	<0.2			0.7	<0.2	0.7		
					5.4	0.3	327	24.9	24.9	8.2	8.2	32.6	32.6	97.7	97.7	6.7	6.7	9.5	8	89	89	89	89	<0.2			0.7	<0.2	0.7		
					5.4	0.3	356	24.9	24.9	8.2	8.2	32.6	32.6	97.7	97.7	6.7	6.7	9.3	6	90	90	90	90	<0.2			0.7	<0.2	0.8		
					1.0	0.5	22	25.0	25.0	8.2	8.2	31.9	31.9	100.5	100.5	6.9	6.9	2.7	6	85	85	85	85	<0.2			0.9	<0.2	0.8		
					1.0	0.6	22	25.0	25.0	8.2	8.2	31.9	31.9	100.4	100.4	6.9	6.9	2.7	5	84	84	84	84	<0.2			0.8	<0.2	0.7		
					3.3	0.4	316	25.0	25.0	8.2	8.2	32.1	32.1	98.2	98.1	6.8	6.8	3.4	5	86	86	86	86	<0.2			0.8	<0.2	0.7		
3.3	0.4	342	25.0	25.0	8.2	8.2	32.1	32.1	98.0	98.1	6.8	6.8	3.6	6	87	87	87	87	<0.2	0.7	<0.2	0.8									
5.6	0.4	310	24.9	24.9	8.2	8.2	32.5	32.5	95.8	95.8	6.6	6.6	7.5	7	89	89	89	89	<0.2	0.7	<0.2	0.7									
5.6	0.4	335	24.9	24.9	8.2	8.2	32.5	32.5	95.7	95.7	6.6	6.6	7.6	7	89	89	89	89	<0.2	0.7	<0.2	0.7									
IM4	Cloudy	Moderate	16:49	7.8	Surface	1.0	0.8	340	25.1	25.1	8.2	8.2	31.3	31.3	99.9	99.9	6.9	6.9	1.8	6	84	84	84	84	819717	804608	<0.2	0.7	<0.2	0.7	
						1.0	0.9	348	25.1	25.1	8.2	8.2	31.3	31.3	99.8	99.8	6.9	6.9	1.8	5	85	85	85	85			<0.2	0.7	<0.2	0.7	
						3.9	0.7	336	25.0	25.0	8.2	8.2	31.6	31.6	99.1	99.1	6.8	6.8	2.5	5	87	87	87	87			<0.2	0.7	<0.2	0.7	
					3.9	0.7	309	25.0	25.0	8.2	8.2	31.6	31.6	99.1	99.1	6.8	6.8	2.4	4	87	87	87	87	<0.2			0.8	<0.2	0.7		
					6.8	0.6	332	25.0	25.0	8.2	8.2	32.0	32.0	97.9	97.9	6.8	6.8	3.4	5	89	89	89	89	<0.2			0.7	<0.2	0.7		
					6.8	0.6	305	25.0	25.0	8.2	8.2	32.0	32.0	97.9	97.9	6.7	6.7	3.5	4	89	89	89	89	<0.2			0.7	<0.2	0.7		
					1.0	1.1	18	25.1	25.1	8.2	8.2	31.0	31.0	100.3	100.3	6.9	6.9	2.5	7	84	84	84	84	<0.2			0.8	<0.2	0.8		
					1.0	1.1	18	25.1	25.1	8.2	8.2	31.0	31.0	100.3	100.3	6.9	6.9	2.5	8	85	85	85	85	<0.2			0.8	<0.2	0.8		
					3.6	0.9	10	25.1	25.1	8.2	8.2	31.0	31.0	100.0	100.0	6.9	6.9	5.6	7	87	87	87	87	<0.2			0.8	<0.2	0.7		
3.6	0.9	10	25.1	25.1	8.2	8.2	31.0	31.0	99.9	99.9	6.9	6.9	5.6	6	86	86	86	86	<0.2	0.8	<0.2	0.7									
6.1	0.7	22	25.1	25.1	8.2	8.2	31.0	31.0	99.7	99.7	6.9	6.9	7.2	6	90	90	90	90	<0.2	0.7	<0.2	0.7									
6.1	0.8	22	25.1	25.1	8.2	8.2	31.0	31.0	99.7	99.7	6.9	6.9	7.4	6	90	90	90	90	<0.2	0.7	<0.2	0.7									
IM6	Cloudy	Moderate	16:35	6.9	Surface	1.0	0.2	188	25.1	25.1	8.2	8.2	30.8	30.8	100.2	100.2	6.9	6.9	3.2	8	84	84	84	84	821062	805824	<0.2	0.7	<0.2	0.6	
						1.0	0.2	198	25.1	25.1	8.2	8.2	30.8	30.8	100.2	100.2	6.9	6.9	3.5	8	85	85	85	85			<0.2	0.6	<0.2	0.6	
						3.5	0.2	62	25.1	25.1	8.2	8.2	30.9	30.9	99.9	99.9	6.9	6.9	5.8	6	88	88	88	88			<0.2	0.7	<0.2	0.7	
					3.5	0.2	64	25.1	25.1	8.2	8.2	30.9	30.9	99.9	99.9	6.9	6.9	5.6	7	87	87	87	87	<0.2			0.8	<0.2	0.7		
					5.9	0.1	41	25.1	25.1	8.2	8.2	30.9	30.9	99.8	99.8																



Expansion of Hong Kong International Airport into a Three-Runway System

Water Quality Monitoring

Water Quality Monitoring Results on 31 October 20 during Mid-Ebb Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity (NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)					
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA	Value	DA
C1	Fine	Moderate	12:16	9.0	Surface	1.0	0.2	225	24.6	24.6	8.2	8.2	33.0	33.0	96.5	96.5	6.7	6.6	4.4	6.6	8	7	84	89	815628	804253	<0.2	0.5	0.5					
						1.0	0.2	239	24.6	8.2	8.2	33.0	33.0	96.5	96.5	6.7	6.6	4.2	6.6	7	7	85	89	84	89	<0.2	0.5							
						4.5	0.1	214	24.5	24.5	8.2	8.2	33.2	33.2	94.6	94.6	6.5	6.5	5.3	7.7	7	7	90	89	<0.2	0.5								
					4.5	0.1	216	24.5	24.5	8.2	8.2	33.2	33.2	94.6	94.6	6.5	6.5	5.3	6	6	6	6	89	89	<0.2	0.5								
					8.0	0.1	181	24.5	24.5	8.2	8.2	33.3	33.3	93.6	93.6	6.5	6.5	13.5	6	6	6	6	93	93	<0.2	0.5								
					8.0	0.1	195	24.5	24.4	8.2	8.2	33.3	33.3	93.6	93.6	6.5	6.5	13.5	6	6	6	6	93	93	<0.2	0.4								
C2	Cloudy	Moderate	11:06	12.0	Surface	1.0	0.2	137	24.4	24.4	8.3	8.3	31.0	30.9	93.9	93.9	6.6	6.6	5.9	6.6	6	6	85	87	825661	806957	<0.2	0.6	0.7					
						1.0	0.5	154	24.2	24.2	8.3	8.3	31.3	31.3	94.4	94.4	6.6	6.6	5.8	7.2	5	5	87	88	<0.2	0.6								
						6.0	0.5	163	24.2	24.2	8.3	8.3	31.3	31.3	94.4	94.4	6.6	6.6	6.5	5	5	5	5	88	88	<0.2	0.7							
					11.0	0.5	144	24.2	24.2	8.3	8.3	31.5	31.5	95.1	95.2	6.7	6.7	9.2	6.7	9.2	5	5	90	90	<0.2	0.5								
					11.0	0.5	156	24.2	24.2	8.3	8.3	31.5	31.5	95.2	95.2	6.7	6.7	9.3	6.7	9.3	5	5	90	90	<0.2	0.7								
					1.0	0.4	286	24.6	24.6	8.3	8.3	31.7	31.7	89.8	89.8	6.2	6.2	3.8	6.2	3.8	3	3	86	87	<0.2	0.7								
C3	Cloudy	Moderate	12:51	12.5	Surface	1.0	0.4	293	24.6	24.6	8.3	8.3	31.8	31.7	89.5	89.7	6.2	6.2	3.8	6.2	3	3	87	88	822125	817780	<0.2	0.6	0.6					
						6.3	0.2	257	24.5	24.5	8.2	8.2	32.1	32.1	87.7	87.7	6.1	6.1	4.1	5.5	2	3	88	89	<0.2	0.6								
						6.3	0.2	271	24.5	24.5	8.2	8.2	32.1	32.1	87.7	87.7	6.1	6.1	4.1	3	3	89	90	<0.2	0.6									
					11.5	0.1	120	24.5	24.5	8.3	8.3	32.2	32.2	88.3	88.3	6.1	6.1	8.9	6.1	8.9	2	2	90	90	<0.2	0.5								
					11.5	0.1	131	24.5	24.5	8.3	8.3	32.2	32.2	88.3	88.3	6.1	6.1	8.2	6.1	8.2	2	2	90	90	<0.2	0.6								
					1.0	0.1	185	24.6	24.6	8.2	8.2	32.6	32.6	96.5	96.5	6.7	6.7	2.5	6.7	2.5	5	5	87	87	<0.2	0.7								
IM1	Fine	Moderate	11:56	5.4	Surface	1.0	0.1	192	24.6	24.6	8.2	8.2	32.6	32.6	96.5	96.5	6.7	6.7	2.5	6.7	6	6	87	87	817927	807135	<0.2	0.7	0.7					
						1.0	0.1	192	24.6	24.6	8.2	8.2	32.6	32.6	96.5	96.5	6.7	6.7	2.5	6.7	6	6	87	87	<0.2	0.7								
						4.4	0.1	151	24.6	24.6	8.2	8.2	32.6	32.6	95.0	95.0	6.6	6.6	4.2	6.6	4.2	5	5	92	93	<0.2	0.6							
					4.4	0.1	155	24.6	24.6	8.2	8.2	32.6	32.6	95.0	95.0	6.6	6.6	4.3	6.6	4.3	5	5	93	93	<0.2	0.8								
					1.0	0.1	232	24.7	24.7	8.2	8.2	32.6	32.6	96.6	96.6	6.7	6.7	3.5	6.7	3.5	7	6	86	87	<0.2	0.6								
					1.0	0.1	244	24.7	24.7	8.2	8.2	32.6	32.6	96.6	96.6	6.7	6.7	3.5	6.7	3.5	6	6	87	87	<0.2	0.7								
IM2	Fine	Moderate	11:48	7.8	Surface	3.9	0.1	208	24.6	24.6	8.2	8.2	32.7	32.7	96.0	96.0	6.6	6.6	3.7	6.6	7	6	90	90	818179	806174	<0.2	0.7	0.7					
						3.9	0.1	209	24.6	24.6	8.2	8.2	32.7	32.7	96.0	96.0	6.6	6.6	3.7	6.6	3.7	5.1	7	6	90	90	<0.2	0.7						
						6.8	0.1	84	24.6	24.6	8.2	8.2	32.9	32.9	94.7	94.7	6.5	6.5	8.2	6.5	8.2	6	6	93	93	<0.2	0.7							
					6.8	0.1	89	24.6	24.6	8.2	8.2	32.9	32.9	94.7	94.7	6.5	6.5	8.4	6.5	8.4	6	6	94	94	<0.2	0.6								
					1.0	0.1	243	24.6	24.6	8.2	8.2	32.7	32.7	96.6	96.6	6.7	6.7	4.0	6.7	4.0	9	9	85	86	<0.2	0.8								
					1.0	0.1	254	24.6	24.6	8.2	8.2	32.7	32.7	96.6	96.6	6.7	6.7	3.9	6.7	3.9	9	9	86	86	<0.2	0.8								
IM3	Fine	Moderate	11:40	8.1	Surface	4.1	0.0	79	24.6	24.6	8.2	8.2	32.8	32.8	95.5	95.5	6.6	6.6	6.2	6.3	9	9	89	89	818767	805614	<0.2	0.8	0.8					
						4.1	0.0	79	24.6	24.6	8.2	8.2	32.8	32.8	95.5	95.5	6.6	6.6	6.2	6.3	9	9	89	89	<0.2	0.8								
						7.1	0.1	94	24.5	24.5	8.2	8.2	32.9	32.9	94.8	94.8	6.6	6.6	8.9	6.6	8.9	8	8	94	94	<0.2	0.9							
					7.1	0.1	96	24.5	24.5	8.2	8.2	32.9	32.9	94.8	94.8	6.6	6.6	8.9	6.6	8.9	8	8	93	93	<0.2	0.8								
					1.0	0.0	294	24.6	24.6	8.2	8.2	32.8	32.8	95.3	95.3	6.6	6.6	7.2	6.6	7.2	12	12	84	84	<0.2	0.8								
					1.0	0.0	302	24.6	24.6	8.2	8.2	32.8	32.8	95.3	95.3	6.6	6.6	7.1	6.6	7.1	13	13	85	85	<0.2	0.7								
IM4	Fine	Moderate	11:27	8.2	Surface	4.1	0.0	226	24.6	24.6	8.2	8.2	32.8	32.8	94.9	94.9	6.6	6.6	8.2	6.6	8.2	11	11	89	89	819711	804628	<0.2	0.8	0.8				
						4.1	0.0	236	24.6	24.6	8.2	8.2	32.8	32.8	94.8	94.8	6.6	6.6	8.4	6.6	8.4	11	11	89	89	<0.2	0.9							
						7.2	0.0	232	24.6	24.6	8.2	8.2	32.8	32.8	94.6	94.6	6.5	6.5	11.5	6.5	11.5	10	10	94	94	<0.2	0.9							
					7.2	0.0	253	24.6	24.6	8.2	8.2	32.8	32.8	94.6	94.6	6.5	6.5	11.4	6.5	11.4	11	11	93	93	<0.2	0.8								
					1.0	0.1	295	24.7	24.7	8.2	8.2	32.1	32.1	96.6	96.6	6.7	6.7	3.0	6.7	3.0	7	7	86	87	<0.2	0.8								
					1.0	0.1	310	24.7	24.7	8.2	8.2	32.1	32.1	96.6	96.6	6.7	6.7	2.8	6.7	2.8	8	8	87	87	<0.2	0.7								
IM5	Fine	Moderate	11:19	7.6	Surface	3.8	0.0	5	24.7	24.7	8.2	8.2	32.2	32.2	95.9	95.9	6.6	6.6	4.0	6.6	7	7	90	90	820720	804889	<0.2	0.8	0.8					
						3.8	0.0	5	24.7	24.7	8.2	8.2	32.2	32.2	95.9	95.9	6.6	6.6	4.2	6.6	4.2	6	6	90	90	<0.2	0.8							
						6.6	0.0	300	24.6	24.6	8.2	8.2	32.8	32.8	94.9	94.9	6.6	6.6	10.3	6.6	10.3	6	6	91	91	<0.2	0.6							
					6.6	0.0	319	24.6	24.6	8.2	8.2	32.7	32.7	95.0	95.0	6.6	6.6	10.0	6.6	10.0	7	7	91	91	<0.2	0.8								
					1.0	0.2	249	24.9	24.9	8.2	8.2	31.6	31.6	96.3	96.3	6.7	6.7	1.7	6.7	1.7	5	4	84	85	<0.2	0.9								
					1.0	0.2	257	24.9	24.9	8.2	8.2	31.6	31.6	96.3	96.3	6.7	6.7	1.7	6.7	1.7	4	4	85	85	<0.2	0.9								
IM6	Cloudy	Moderate	11:11	7.8	Surface	3.9	0.1	184	24.8	24.8	8.2	8.2	31.9	31.9	95.5	95.5	6.6	6.6	2.9	6.6	4	4	90	90	821061	805840	<0.2	0.9	0.8					
						3.9	0.1	188	24.8	24.8	8.2	8.2	31.9	31.9	95.5	95.5	6.6	6.6	2.9	6.6	2.9	2.8	4	4	92	92	<0.2	0.8						
						6.8	0.1	231	24.7	24.7	8.2	8.2	32.3	32.3	94.8	94.8	6.6	6.6	3.8	6.6	3.8	4	4	92	92	<0.2	0.7							
					6.8	0.1	244	24.7	24.7	8.2	8.2	32.3	32.3	94.8	94.8	6.6	6.6	3.8	6.6	3.8	3	3	93	93	<0.2	0.7								
					1.0	0.																												

**Expansion of Hong Kong International Airport into a Three-Runway System**

**Water Quality Monitoring**

**Water Quality Monitoring Results on 31 October 20 during Mid-Ebb Tide**

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity (NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)							
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA	Value	DA	Value	DA
IM9	Cloudy	Moderate	11:37	8.0	Surface	1.0	0.4	60	24.4	24.4	8.3	8.3	30.9	30.9	95.2	95.2	6.7	6.7	5.7	5.7	4	4	86	86	-	-	-	-	-	-	-	-				
						1.0	0.4	64	24.4	24.4	8.3	8.3	31.0	31.0	95.2	95.2	6.7	6.7	5.7	5.7	4	4	87	87	-	-	-	-	-	-	-	-	-	-		
						4.0	0.4	76	24.3	24.3	8.3	8.3	31.1	31.1	95.0	95.0	6.7	6.7	5.7	5.7	4	4	88	88	-	-	-	-	-	-	-	-	-	-		
					Middle	4.0	0.4	77	24.3	24.3	8.3	8.3	31.1	31.1	95.0	95.0	6.7	6.7	5.8	5.8	6.9	6.9	4	4	88	88	-	-	-	-	-	-	-	-		
						7.0	0.3	74	24.2	24.2	8.3	8.3	31.3	31.3	96.3	96.4	6.8	6.8	9.2	9.2	4	4	92	92	-	-	-	-	-	-	-	-	-	-		
						7.0	0.4	79	24.2	24.2	8.3	8.3	31.3	31.3	96.5	96.4	6.8	6.8	9.4	9.4	5	5	91	91	-	-	-	-	-	-	-	-	-	-		
					Bottom	1.0	0.5	106	24.4	24.4	8.3	8.3	31.0	31.0	94.7	94.7	6.6	6.6	5.2	5.2	4	4	86	86	-	-	-	-	-	-	-	-	-	-		
						1.0	0.5	106	24.4	24.4	8.3	8.3	31.0	31.0	94.7	94.7	6.6	6.6	5.2	5.2	4	4	87	87	-	-	-	-	-	-	-	-	-	-		
						4.2	0.5	100	24.3	24.3	8.3	8.3	31.1	31.1	94.0	94.0	6.6	6.6	7.9	7.9	4	4	88	88	-	-	-	-	-	-	-	-	-	-		
IM10	Cloudy	Moderate	11:44	8.4	Surface	1.0	0.4	94	24.3	24.3	8.3	8.3	31.1	31.1	96.3	96.4	6.8	6.8	10.9	10.9	4	4	90	90	-	-	-	-	-	-	-	-				
						1.0	0.5	106	24.4	24.4	8.3	8.3	31.0	31.0	94.7	94.7	6.6	6.6	5.2	5.2	4	4	87	87	-	-	-	-	-	-	-	-	-	-		
						4.2	0.5	102	24.3	24.3	8.3	8.3	31.1	31.1	94.0	94.0	6.6	6.6	8.0	8.0	5	5	88	88	-	-	-	-	-	-	-	-	-	-		
					Middle	7.4	0.4	94	24.3	24.3	8.3	8.3	31.1	31.1	96.3	96.4	6.8	6.8	10.9	10.9	4	4	90	90	-	-	-	-	-	-	-	-	-	-		
						4.2	0.5	102	24.3	24.3	8.3	8.3	31.1	31.1	94.0	94.0	6.6	6.6	8.0	8.0	5	5	88	88	-	-	-	-	-	-	-	-	-	-		
						7.4	0.4	99	24.3	24.3	8.3	8.3	31.1	31.1	96.4	96.4	6.8	6.8	10.2	10.2	5	5	90	90	-	-	-	-	-	-	-	-	-	-		
					Bottom	1.0	0.5	96	24.5	24.5	8.3	8.3	31.3	31.3	92.7	92.7	6.5	6.5	4.6	4.6	4	4	86	86	-	-	-	-	-	-	-	-	-	-		
						1.0	0.5	97	24.5	24.5	8.3	8.3	31.3	31.3	92.7	92.7	6.5	6.5	4.6	4.6	5	5	86	86	-	-	-	-	-	-	-	-	-	-		
						4.4	0.3	106	24.4	24.4	8.3	8.3	31.3	31.3	92.6	92.6	6.5	6.5	5.0	5.0	6	6	87	87	-	-	-	-	-	-	-	-	-	-		
IM11	Cloudy	Moderate	11:55	8.7	Surface	4.4	0.3	108	24.4	24.4	8.3	8.3	31.3	31.3	92.6	92.6	6.5	6.5	5.1	5.1	5	5	88	88	-	-	-	-	-	-	-	-				
						7.7	0.4	107	24.4	24.4	8.3	8.3	31.3	31.3	94.6	94.8	6.6	6.6	5.2	5.2	6	6	89	89	-	-	-	-	-	-	-	-	-	-		
						7.7	0.4	108	24.4	24.4	8.3	8.3	31.3	31.3	95.0	94.8	6.6	6.6	5.2	5.2	7	7	91	91	-	-	-	-	-	-	-	-	-	-		
					Middle	1.0	0.5	95	24.5	24.5	8.3	8.3	31.4	31.4	93.2	93.2	6.5	6.5	5.9	5.9	4	4	85	85	-	-	-	-	-	-	-	-	-	-		
						1.0	0.5	103	24.5	24.5	8.3	8.3	31.4	31.4	93.2	93.2	6.5	6.5	5.8	5.8	5	5	86	86	-	-	-	-	-	-	-	-	-	-		
						4.7	0.4	117	24.4	24.4	8.3	8.3	31.4	31.4	93.5	93.6	6.5	6.5	3.5	3.5	4	4	88	88	-	-	-	-	-	-	-	-	-	-		
					Bottom	8.3	0.2	92	24.4	24.4	8.3	8.3	31.4	31.4	94.9	94.9	6.6	6.6	13.7	13.7	4	4	89	89	-	-	-	-	-	-	-	-	-	-		
						8.3	0.2	92	24.4	24.4	8.3	8.3	31.4	31.4	94.9	94.9	6.6	6.6	13.4	13.4	4	4	90	90	-	-	-	-	-	-	-	-	-	-		
						7.7	0.4	108	24.4	24.4	8.3	8.3	31.3	31.3	92.6	92.6	6.5	6.5	5.1	5.1	5	5	88	88	-	-	-	-	-	-	-	-	-	-		
IM12	Cloudy	Moderate	12:01	9.3	Surface	1.0	0.5	95	24.5	24.5	8.3	8.3	31.4	31.4	93.2	93.2	6.5	6.5	5.9	5.9	4	4	85	85	-	-	-	-	-	-	-	-				
						1.0	0.5	103	24.5	24.5	8.3	8.3	31.4	31.4	93.2	93.2	6.5	6.5	5.8	5.8	5	5	86	86	-	-	-	-	-	-	-	-	-			
						4.7	0.4	117	24.4	24.4	8.3	8.3	31.4	31.4	93.5	93.6	6.5	6.5	3.5	3.5	4	4	88	88	-	-	-	-	-	-	-	-	-			
					Middle	8.3	0.2	92	24.4	24.4	8.3	8.3	31.4	31.4	94.9	94.9	6.6	6.6	13.7	13.7	4	4	89	89	-	-	-	-	-	-	-	-	-	-		
						8.3	0.2	92	24.4	24.4	8.3	8.3	31.4	31.4	94.9	94.9	6.6	6.6	13.4	13.4	4	4	90	90	-	-	-	-	-	-	-	-	-	-		
						4.7	0.4	117	24.4	24.4	8.3	8.3	31.4	31.4	93.6	93.6	6.5	6.5	3.5	3.5	4	4	88	88	-	-	-	-	-	-	-	-	-			
					Bottom	1.0	0.5	95	24.5	24.5	8.3	8.3	31.4	31.4	93.2	93.2	6.5	6.5	5.9	5.9	4	4	85	85	-	-	-	-	-	-	-	-	-	-		
						1.0	0.5	103	24.5	24.5	8.3	8.3	31.4	31.4	93.2	93.2	6.5	6.5	5.8	5.8	5	5	86	86	-	-	-	-	-	-	-	-	-	-		
						4.7	0.4	117	24.4	24.4	8.3	8.3	31.4	31.4	93.5	93.6	6.5	6.5	3.5	3.5	4	4	88	88	-	-	-	-	-	-	-	-	-			
SR1A	Cloudy	Moderate	12:20	4.8	Surface	1.0	-	-	24.4	24.4	8.3	8.3	31.2	31.2	95.7	95.7	6.7	6.7	5.6	5.6	4	4	-	-	-	-	-	-	-	-	-	-				
						1.0	-	-	24.4	24.4	8.3	8.3	31.2	31.2	95.7	95.7	6.7	6.7	5.6	5.6	4	4	-	-	-	-	-	-	-	-	-	-	-			
						2.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
					Middle	2.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
						3.8	-	-	24.4	24.4	8.3	8.3	31.2	31.2	97.1	97.3	6.8	6.8	6.5	6.5	5	5	-	-	-	-	-	-	-	-	-	-	-	-		
						3.8	-	-	24.4	24.4	8.3	8.3	31.2	31.2	97.5	97.5	6.8	6.8	6.2	6.2	6	6	-	-	-	-	-	-	-	-	-	-	-			
					Bottom	1.0	0.3	54	24.5	24.5	8.3	8.3	31.3	31.3	95.3	95.3	6.7	6.7	4.1	4.1	4	4	88	88	-	-	-	-	-	-	-	-	-	-		
						1.0	0.4	59	24.5	24.5	8.3	8.3	31.3	31.3	95.3	95.3	6.7	6.7	4.1	4.1	5	5	87	87	-	-	-	-	-	-	-	-	-	-		
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
SR2	Cloudy	Moderate	12:33	4.3	Surface	3.3	0.3	50	24.5	24.5	8.3	8.3	31.3	31.3	98.9	98.9	6.9	6.9	4.5	4.5	8	8	90	90	-	-	-	-	-	-	-	-				
						3.3	0.3	52	24.5	24.5	8.3	8.3	31.3	31.3	98.9	98.9	6.9	6.9	4.6	4.6	8	8	90	90	-	-	-	-	-	-	-	-	-	-		
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
					Bottom	1.0	0.2	209	24.4	24.4	8.3	8.3	30.8	30.8	94.4	94.4	6.6	6.6	4.8	4.8	7	7	-	-	-	-	-	-	-	-	-	-	-	-		
						1.0	0.3	218	24.4	24.4	8.3	8.3	30.8	30.8	94.3	94.4	6.6	6.6	4.8	4.8	8	8	-	-	-	-	-	-	-	-	-	-	-	-		
						4.6	0.2	199	24.2	24.2	8.3	8.3	31.3	31.3	94.2	94.2	6.6	6.6	7.7	7.7	6	6	-	-	-	-	-	-	-	-	-	-	-	-		
SR3	Cloudy	Moderate	11:24	9.2	Surface	8.2	0.2	134	24.2	24.2	8.3	8.3	31.4	31.4	95.5	95.8	6.7	6																		



Expansion of Hong Kong International Airport into a Three-Runway System

Water Quality Monitoring

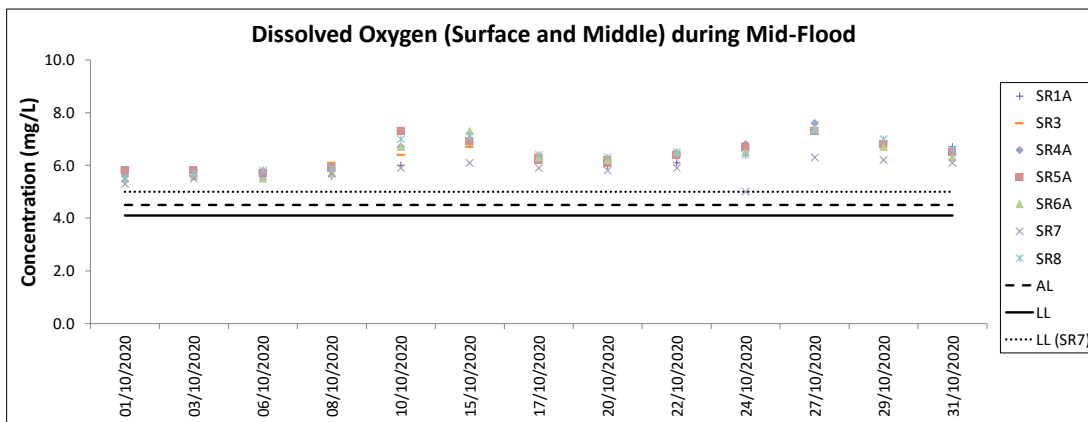
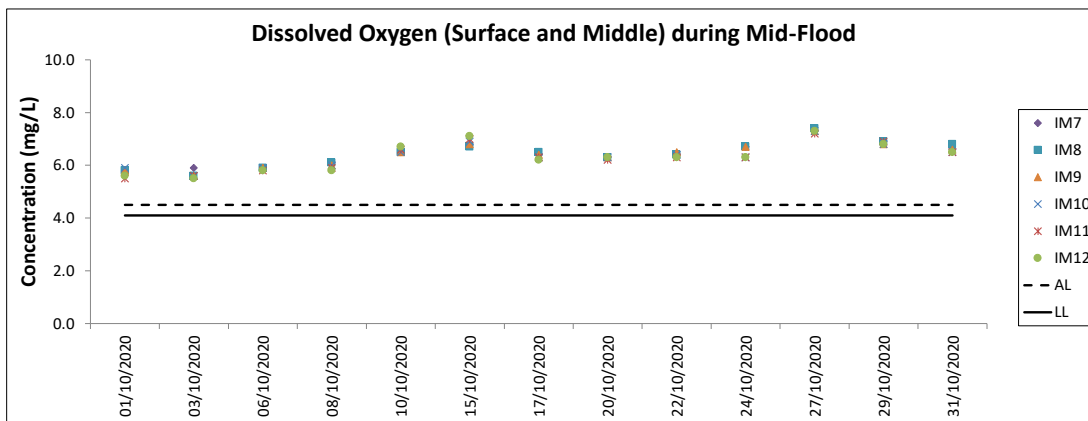
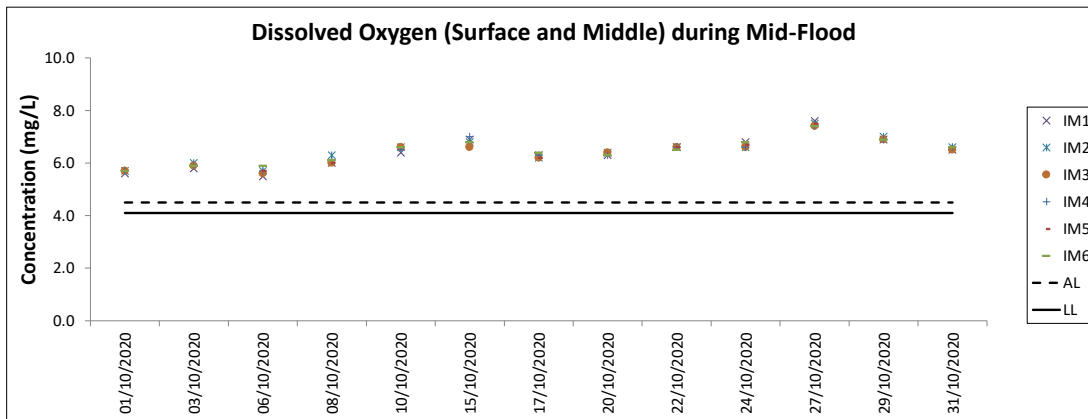
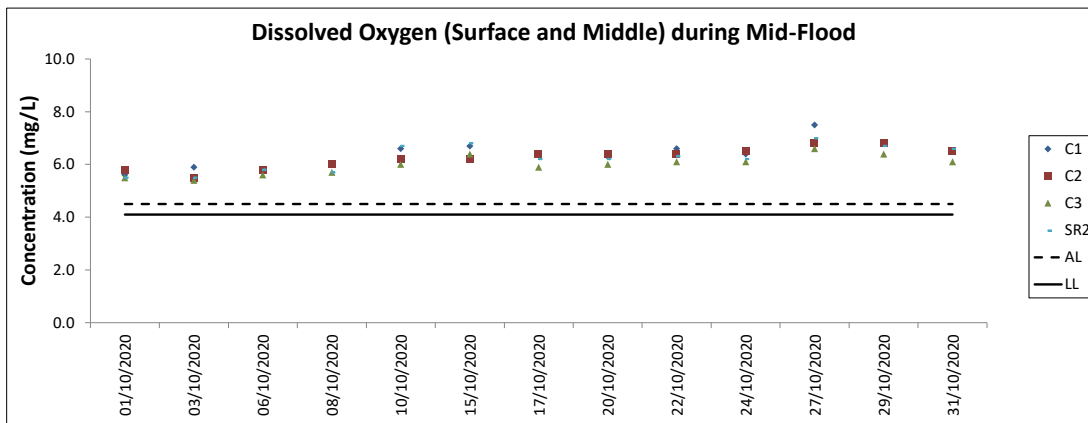
Water Quality Monitoring Results on 31 October 20 during Mid-Flood Tide

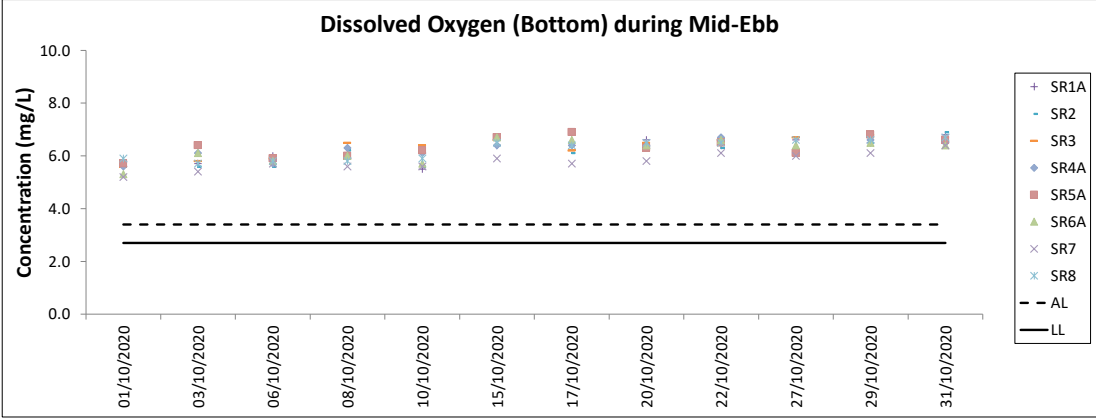
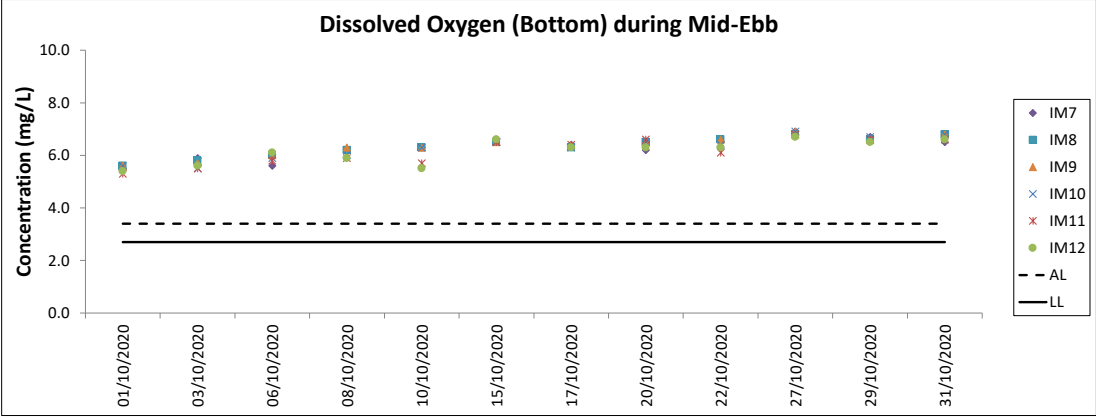
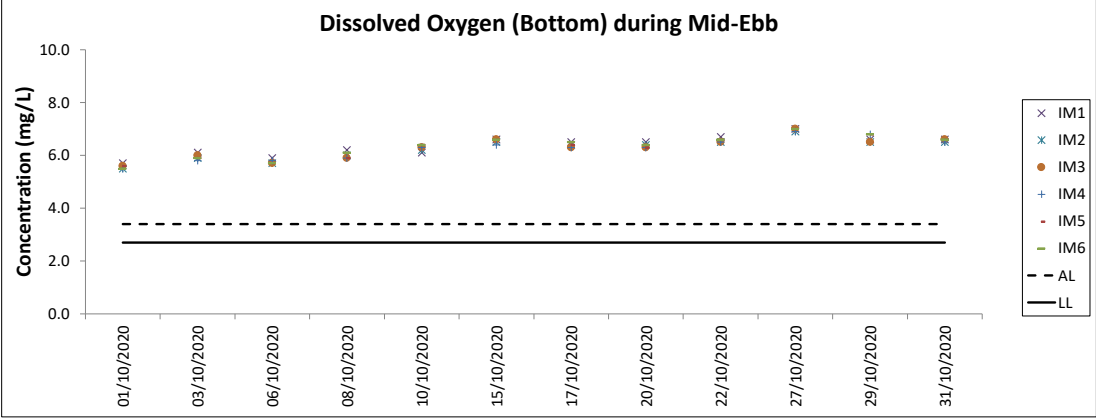
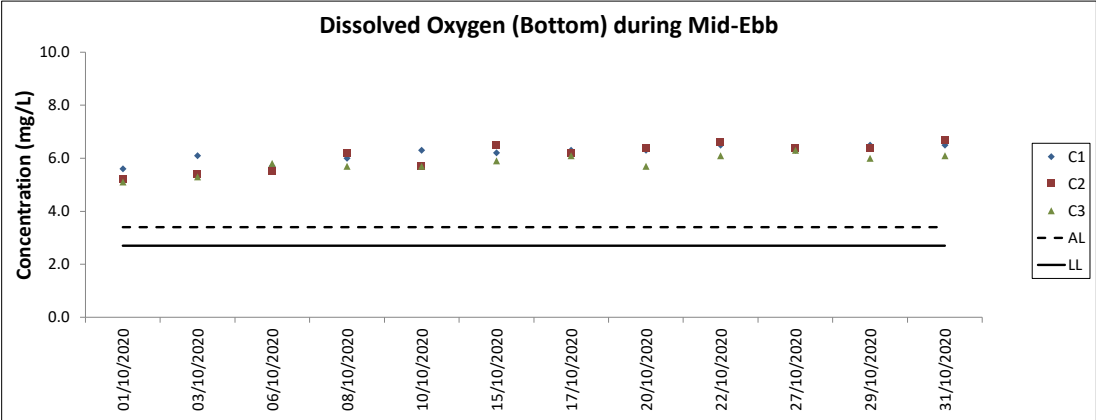
Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity (NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)						
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA	Value	DA	
																																			Value
C1	Fine	Moderate	07:12	9.5	Surface	1.0	0.4	34	24.5	24.5	8.2	8.2	32.9	32.9	94.6	94.6	6.5	6.5	23.2	23.2	7	7	86	86	90	815609	804246	<0.2	0.6	0.7					
						1.0	0.4	35	24.5	24.5	8.2	8.2	32.9	32.9	94.6	94.6	6.5	6.5	23.3	23.3	7	7	87	87				<0.2	0.6						
						4.8	0.4	33	24.5	24.5	8.2	8.2	33.3	33.3	93.7	93.7	6.5	6.5	48.3	48.3	7	7	90	90				<0.2	0.7						
					4.8	0.4	35	24.5	24.5	8.2	8.2	33.3	33.3	93.7	93.7	6.5	6.5	42.4	42.4	7	7	89	89	<0.2				0.7							
					8.5	0.3	15	24.5	24.5	8.2	8.2	33.3	33.3	93.5	93.5	6.4	6.4	12.9	12.9	7	7	93	93	<0.2				0.8							
					8.5	0.3	15	24.5	24.5	8.2	8.2	33.3	33.3	93.5	93.5	6.4	6.4	14.4	14.4	8	8	93	93	<0.2				0.9							
C2	Cloudy	Moderate	08:26	11.9	Surface	1.0	0.3	350	24.5	24.5	8.2	8.2	30.4	30.4	93.2	93.2	6.5	6.5	5.9	5.9	7	7	85	85	88	825661	806933	<0.2	0.7	0.8					
						1.0	0.3	322	24.5	24.5	8.2	8.2	30.4	30.4	93.2	93.2	6.5	6.5	5.9	5.9	8	8	87	87				<0.2	0.8						
						6.0	0.4	28	24.4	24.4	8.2	8.2	30.6	30.6	93.3	93.3	6.5	6.5	7.6	7.6	8	8	89	89				<0.2	0.9						
					10.9	0.4	346	24.4	24.4	8.2	8.2	30.7	30.7	94.3	94.3	6.6	6.6	10.4	10.4	9	9	89	89	<0.2				0.9							
					10.9	0.4	357	24.4	24.4	8.3	8.3	30.7	30.7	94.3	94.3	6.6	6.6	10.9	10.9	8	8	91	91	<0.2				0.9							
					1.0	0.3	241	24.6	24.6	8.3	8.3	31.7	31.7	88.0	88.0	6.1	6.1	6.3	6.3	3	3	86	86	<0.2				0.9							
C3	Cloudy	Moderate	06:39	11.8	Surface	1.0	0.3	263	24.6	24.6	8.3	8.3	31.8	31.8	87.9	87.9	6.1	6.1	6.4	6.4	3	3	87	87	88	822090	817810	<0.2	0.8	0.9					
						5.9	0.4	252	24.6	24.6	8.3	8.3	31.9	31.9	87.8	87.8	6.1	6.1	9.5	9.5	4	4	88	88				<0.2	0.8						
						5.9	0.4	269	24.6	24.6	8.3	8.3	31.9	31.9	87.8	87.8	6.1	6.1	9.6	9.6	4	4	88	88				<0.2	0.9						
					10.8	0.4	266	24.6	24.6	8.4	8.4	31.9	31.9	87.9	87.9	6.1	6.1	10.8	10.8	4	4	90	90	<0.2				0.8							
					10.8	0.4	266	24.6	24.6	8.4	8.4	31.9	31.9	87.9	87.9	6.1	6.1	10.1	10.1	5	5	90	90	<0.2				0.9							
					1.0	0.1	357	24.6	24.6	8.2	8.2	32.8	32.8	94.4	94.4	6.5	6.5	4.6	4.6	7	7	88	88	<0.2				0.9							
IM1	Cloudy	Moderate	07:34	5.7	Surface	1.0	0.1	328	24.6	24.6	8.2	8.2	32.8	32.8	94.4	94.4	6.5	6.5	4.6	4.6	7	7	87	87	91	817947	807146	<0.2	0.8	0.9					
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-		-	-	-	-	-
						4.7	0.1	25	24.7	24.7	8.2	8.2	32.8	32.8	94.4	94.4	6.5	6.5	5.5	5.5	10	10	94	94				<0.2	0.9						
					4.7	0.1	28	24.7	24.7	8.2	8.2	32.8	32.8	94.4	94.4	6.5	6.5	5.6	5.6	11	11	94	94	<0.2				0.8							
					1.0	0.2	339	24.6	24.6	8.2	8.2	32.7	32.7	94.9	94.9	6.6	6.6	7.9	7.9	10	10	88	88	<0.2				0.9							
					IM2	Cloudy	Moderate	07:41	8.0	Surface	1.0	0.2	341	24.6	24.6	8.2	8.2	32.7	32.7	94.8	94.8	6.6	6.6	8.0				8.0	10		10	88	88	91	818156
4.0	0.2	352	24.6	24.6							8.2	8.2	32.7	32.7	94.7	94.7	6.5	6.5	8.9	8.9	12	12	92	92	<0.2	0.9									
4.0	0.2	324	24.6	24.6							8.2	8.2	32.7	32.7	94.7	94.7	6.5	6.5	8.7	8.7	11	11	92	92	<0.2	0.9									
7.0	0.2	13	24.6	24.6						8.2	8.2	32.7	32.7	94.6	94.6	6.5	6.5	12.1	12.1	13	13	93	93	<0.2	1.1										
7.0	0.2	13	24.6	24.6						8.2	8.2	32.7	32.7	94.6	94.6	6.5	6.5	12.0	12.0	14	14	93	93	<0.2	1.2										
1.0	0.5	18	24.6	24.6						8.2	8.2	32.7	32.7	94.7	94.7	6.5	6.5	14.9	14.9	19	19	88	88	<0.2	0.9										
IM3	Cloudy	Moderate	07:49	8.2	Surface	1.0	0.5	19	24.6	24.6	8.2	8.2	32.7	32.7	94.7	94.7	6.5	6.5	14.9	14.9	20	20	88	88	91	818767	805598	<0.2	0.8	0.8					
						4.1	0.4	321	24.6	24.6	8.2	8.2	32.7	32.7	94.6	94.6	6.5	6.5	19.0	19.0	20	20	91	91				<0.2	0.7						
						4.1	0.4	330	24.6	24.6	8.2	8.2	32.7	32.7	94.6	94.6	6.5	6.5	19.0	19.0	19	19	91	91				<0.2	0.8						
					7.2	0.3	317	24.6	24.6	8.2	8.2	32.7	32.7	94.6	94.6	6.5	6.5	25.2	25.2	20	20	94	94	<0.2				0.8							
					7.2	0.3	317	24.6	24.6	8.2	8.2	32.7	32.7	94.6	94.6	6.5	6.5	25.3	25.3	20	20	94	94	<0.2				0.9							
					1.0	0.8	342	24.6	24.6	8.2	8.2	32.7	32.7	94.8	94.8	6.6	6.6	15.2	15.2	18	18	88	88	<0.2				0.8							
IM4	Cloudy	Moderate	07:57	8.2	Surface	1.0	0.8	315	24.6	24.6	8.2	8.2	32.7	32.7	94.8	94.8	6.6	6.6	14.8	14.8	18	18	88	88	91	819704	804586	<0.2	0.9	0.9					
						4.1	0.7	349	24.6	24.6	8.2	8.2	32.7	32.7	94.8	94.8	6.6	6.6	14.8	14.8	18	18	92	92				<0.2	0.8						
						4.1	0.7	321	24.6	24.6	8.2	8.2	32.7	32.7	94.8	94.8	6.6	6.6	14.6	14.6	18	18	91	91				<0.2	0.8						
					7.2	0.6	341	24.6	24.6	8.2	8.2	32.7	32.7	94.8	94.8	6.6	6.6	18.7	18.7	20	20	94	94	<0.2				0.9							
					7.2	0.6	314	24.6	24.6	8.2	8.2	32.7	32.7	94.8	94.8	6.6	6.6	18.5	18.5	19	19	94	94	<0.2				0.9							
					1.0	1.1	12	24.6	24.6	8.2	8.2	32.5	32.5	95.0	95.0	6.6	6.6	23.7	23.7	6	6	88	88	<0.2				0.9							
IM5	Cloudy	Moderate	08:05	7.6	Surface	1.0	1.2	12	24.6	24.6	8.2	8.2	32.5	32.5	95.0	95.0	6.6	6.6	23.9	23.9	7	7	89	89	92	820725	804878	<0.2	1.0	1.1					
						3.8	0.9	3	24.6	24.6	8.2	8.2	32.6	32.6	94.9	94.9	6.6	6.6	25.7	25.7	7	7	93	93				<0.2	1.1						
						3.8	0.9	3	24.6	24.6	8.2	8.2	32.6	32.6	94.9	94.9	6.6	6.6	25.6	25.6	6	6	93	93				<0.2	1.2						
					6.6	0.7	29	24.6	24.6	8.2	8.2	32.6	32.6	94.8	94.8	6.6	6.6	27.1	27.1	7	7	94	94	<0.2				1.2							
					6.6	0.8	31	24.6	24.6	8.2	8.2	32.6	32.6	94.8	94.8	6.6	6.6	27.2	27.2	8	8	95	95	<0.2				1.0							
					1.0	0.2	183	24.9	24.9	8.2	8.2	31.5	31.5	95.1	95.1	6.6	6.6	2.0	2.0	6	6	88	88	<0.2				1.2							
IM6	Cloudy	Moderate	08:13	7.7	Surface	1.0	0.2	196	24.9	24.9	8.2	8.2	31.5	31.5	95.1	95.1	6.6	6.6	2.0	2.0	5	5	88	88	91	821056	805828	<0.2	1.4	1.1					
						3.9	0.2	66	24.8	24.8	8.2	8.2	31.9	31.9	94.8	94.8	6.6	6.6	3.1	3.1	4	4	92	92				<0.2	1.1						
						3.9	0.2	70	24.8	24.8	8.2	8.2	31.9	31.9	94.9	94.9	6.6	6.6	3.1	3.1	4	4	92	92				<0.2	1.1						
					6.7	0.1	43	24.7	24.7	8.2	8.2	32.3	32.3	94.8	94.8	6.6	6.6	5.3	5.3	5	5	94	94	<0.2				0.9							
					6.7	0.2	46	24.7	24.7	8.2	8.2	32.3	32.3	94.8	94.8	6.6	6.6	5.2	5.2	4	4	94	94	<0.2				0.9							
					1.0	0.1	200	25.0	25.0	8.2	8.2	31.4	31.4	94.9	94.9	6.6	6.6	2.0	2.0	3	3	88													

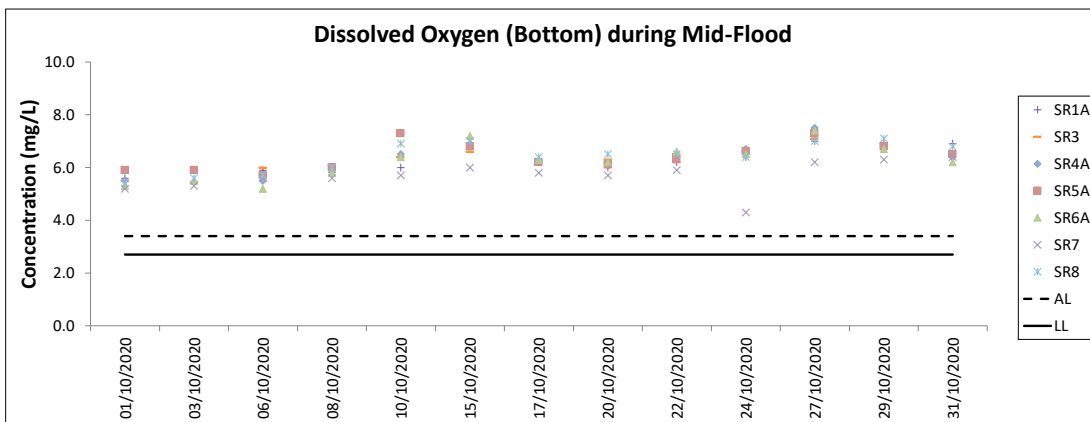
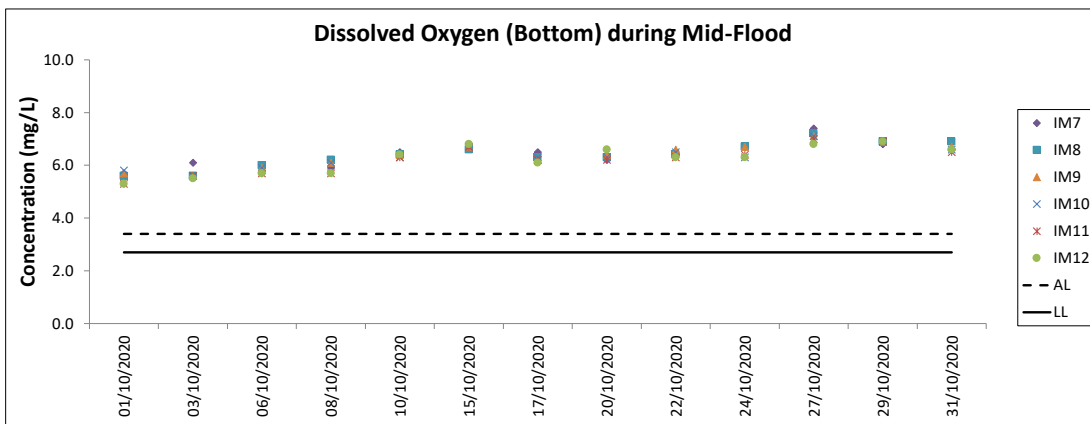
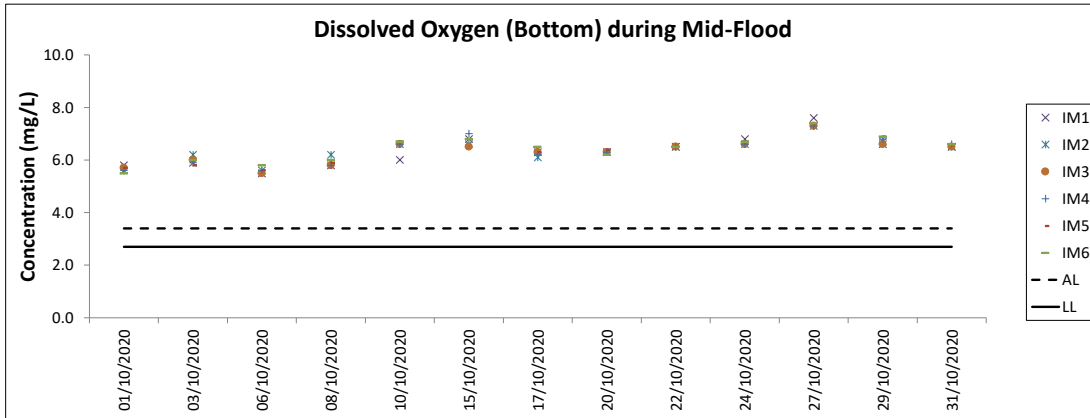
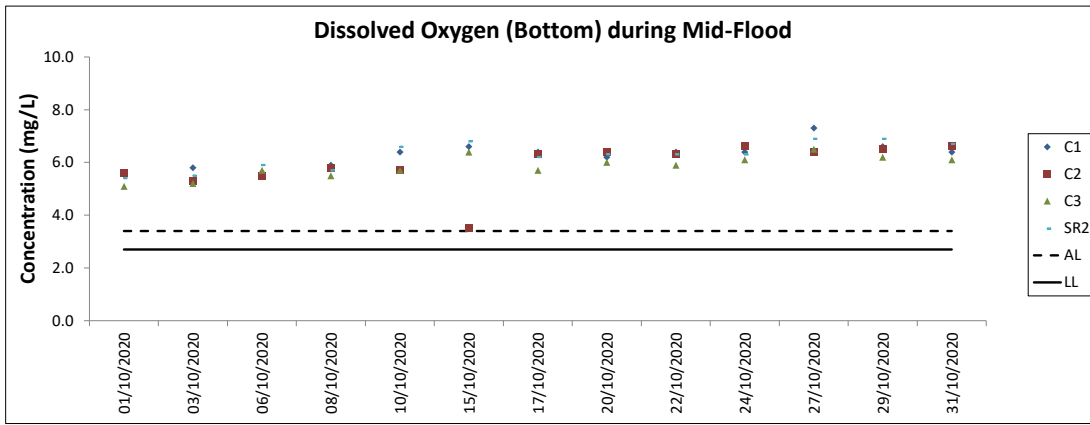
**Expansion of Hong Kong International Airport into a Three-Runway System**  
**Water Quality Monitoring**  
**Water Quality Monitoring Results on 31 October 20 during Mid-Flood Tide**

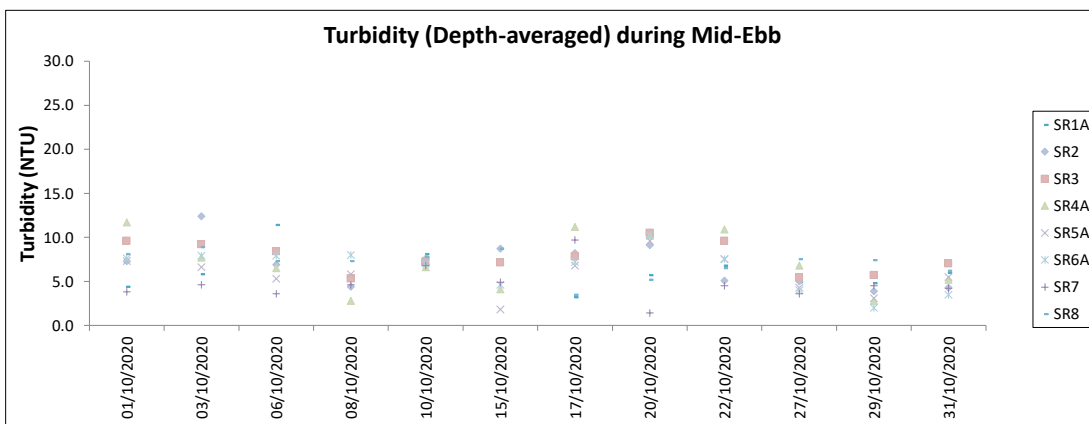
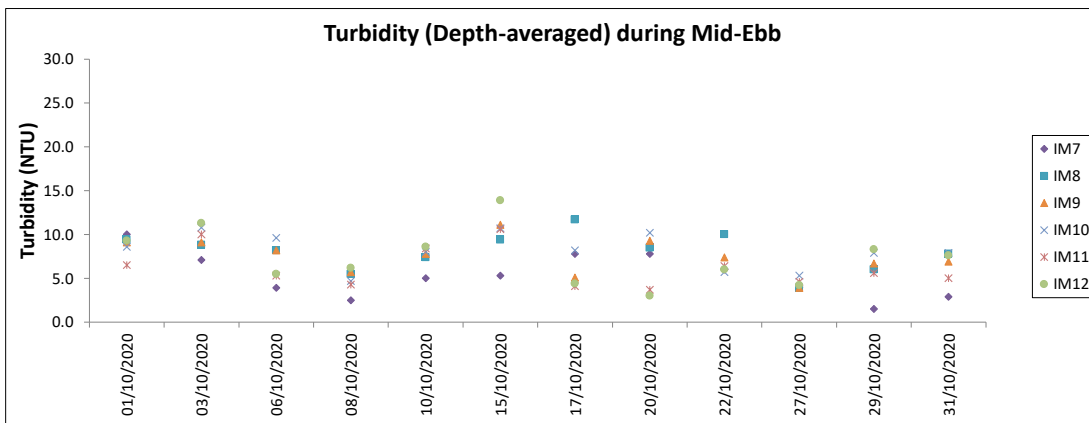
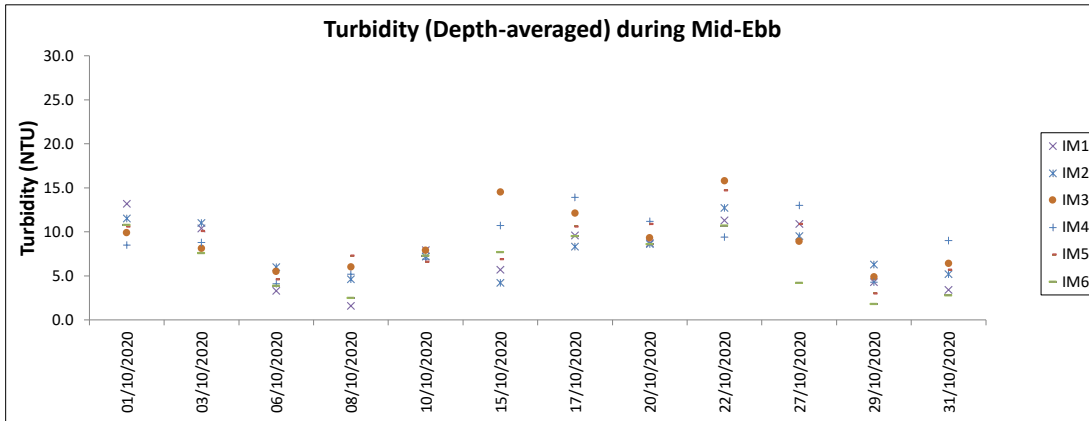
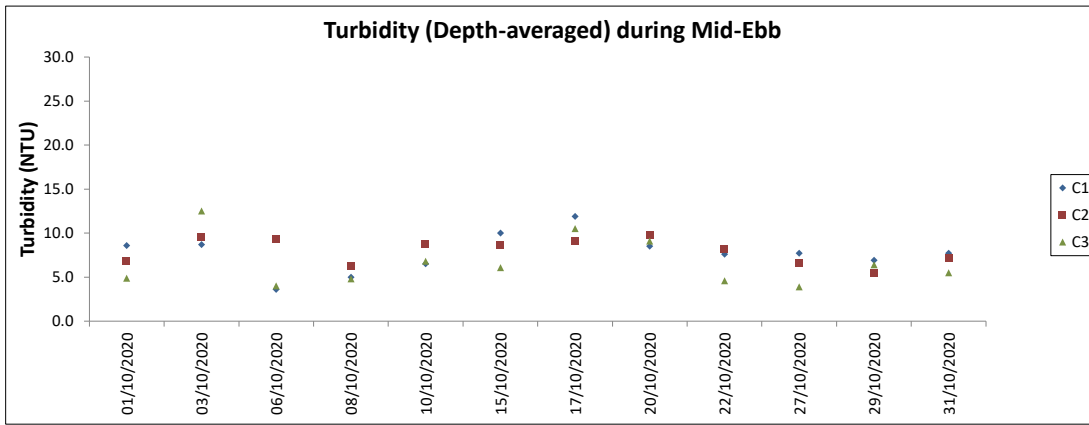
Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity (NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)							
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA	Value	DA	Value	DA
IM9	Cloudy	Moderate	07:51	7.4	Surface	1.0	0.2	68	24.3	24.3	8.3	8.3	31.1	31.1	93.3	93.3	6.5	6.6	8.8	14	85	88	88	88	88	822082	808798	<0.2	0.8	0.9	0.9					
						1.0	0.3	68	24.3	8.3	8.3	31.1	31.1	93.3	93.3	6.5	6.6	8.9	13	86	85	14	88	88	88	88	88	822082	808798	<0.2	0.8	0.9	0.9			
					Middle	3.7	0.3	79	24.3	24.3	8.3	8.3	31.1	31.1	94.2	94.3	6.6	6.6	12.1	11.9	14	88	88	88	88	88	88	822082	808798	<0.2	0.8	0.9	0.9			
						3.7	0.3	84	24.3	24.3	8.3	8.3	31.1	31.1	94.3	94.3	6.6	6.6	12.3	11.9	14	87	88	88	88	88	88	822082	808798	<0.2	0.8	0.9	0.9			
					Bottom	6.4	0.2	76	24.4	24.4	8.3	8.3	31.1	31.1	95.0	95.1	6.7	6.7	14.7	14	90	89	89	89	89	89	89	822082	808798	<0.2	0.9	0.9	0.9			
						6.4	0.2	77	24.4	24.4	8.3	8.3	31.1	31.1	95.1	95.1	6.7	6.7	14.8	14	89	89	89	89	89	89	89	822082	808798	<0.2	0.9	0.9	0.9			
IM10	Cloudy	Moderate	07:44	7.8	Surface	1.0	0.5	329	24.4	24.4	8.3	8.3	31.2	31.2	92.5	92.5	6.5	6.5	9.4	12	86	86	86	86	86	822394	809776	<0.2	0.9	0.9	0.9					
						1.0	0.6	329	24.4	24.4	8.3	8.3	31.2	31.2	92.5	92.5	6.5	6.5	9.5	13	85	85	85	85	85	85	822394	809776	<0.2	0.9	0.9	0.9				
					Middle	3.9	0.4	332	24.4	24.4	8.2	8.2	31.2	31.2	92.7	92.7	6.5	6.5	11.8	11.5	15	87	87	87	87	87	87	822394	809776	<0.2	0.9	0.9	0.9			
						3.9	0.4	350	24.4	24.4	8.2	8.2	31.2	31.2	92.7	92.7	6.5	6.5	12.1	11.5	14	87	87	87	87	87	87	822394	809776	<0.2	0.9	0.9	0.9			
					Bottom	6.8	0.3	332	24.4	24.4	8.3	8.3	31.2	31.2	93.5	93.6	6.5	6.5	13.1	11.5	14	89	89	89	89	89	89	89	822394	809776	<0.2	1.1	1.1	1.1		
						6.8	0.3	336	24.4	24.4	8.3	8.3	31.2	31.2	93.7	93.6	6.6	6.6	13.2	11.5	15	89	89	89	89	89	89	89	822394	809776	<0.2	1.2	1.2	1.2		
IM11	Cloudy	Moderate	07:34	8.3	Surface	1.0	0.5	306	24.4	24.4	8.3	8.3	31.3	31.3	92.8	92.8	6.5	6.5	8.7	11	85	85	85	85	85	822063	811468	<0.2	0.9	0.9	0.9					
						1.0	0.6	306	24.4	24.4	8.3	8.3	31.3	31.3	92.8	92.8	6.5	6.5	8.6	10	85	85	85	85	85	85	822063	811468	<0.2	0.9	0.9	0.9				
					Middle	4.2	0.5	310	24.4	24.4	8.3	8.3	31.3	31.3	92.8	92.8	6.5	6.5	10.0	9.5	12	87	87	87	87	87	87	822063	811468	<0.2	1.0	1.0	1.0			
						4.2	0.5	336	24.4	24.4	8.3	8.3	31.3	31.3	92.8	92.8	6.5	6.5	10.1	12	86	86	86	86	86	86	86	822063	811468	<0.2	0.9	0.9	0.9			
					Bottom	7.3	0.4	307	24.4	24.4	8.2	8.2	31.3	31.3	93.1	93.2	6.5	6.5	9.9	14	90	89	89	89	89	89	89	89	822063	811468	<0.2	0.9	0.9	0.9		
						7.3	0.5	318	24.4	24.4	8.2	8.2	31.3	31.3	93.2	93.2	6.5	6.5	9.7	14	89	89	89	89	89	89	89	89	822063	811468	<0.2	0.9	0.9	0.9		
IM12	Cloudy	Moderate	07:28	8.4	Surface	1.0	0.5	301	24.4	24.4	8.2	8.2	31.3	31.3	91.9	91.9	6.4	6.5	9.7	12	85	85	85	85	85	821474	812028	<0.2	0.9	0.9	0.9					
						1.0	0.5	317	24.4	24.4	8.2	8.2	31.3	31.3	91.9	91.9	6.4	6.5	9.8	12	86	86	86	86	86	86	821474	812028	<0.2	0.8	0.8	0.8				
					Middle	4.2	0.4	302	24.4	24.4	8.2	8.2	31.3	31.3	92.5	92.6	6.5	6.5	11.8	11.0	13	86	86	86	86	86	86	821474	812028	<0.2	0.9	0.9	0.9			
						4.2	0.4	306	24.4	24.4	8.2	8.2	31.3	31.3	92.6	92.6	6.5	6.5	11.9	12	87	87	87	87	87	87	87	821474	812028	<0.2	0.9	0.9	0.9			
					Bottom	7.4	0.3	298	24.4	24.4	8.3	8.3	31.3	31.3	94.1	94.2	6.6	6.6	11.3	11	89	89	89	89	89	89	89	89	821474	812028	<0.2	0.8	0.8	0.8		
						7.4	0.3	324	24.4	24.4	8.3	8.3	31.3	31.3	94.2	94.2	6.6	6.6	11.7	11	90	89	89	89	89	89	89	89	821474	812028	<0.2	0.9	0.9	0.9		
SR1A	Cloudy	Moderate	07:11	5.1	Surface	1.0	-	-	24.2	24.2	8.3	8.3	31.3	31.3	95.9	95.9	6.7	6.7	9.2	10	-	-	-	-	-	819980	812661	-	-	-	-					
						1.0	-	-	24.2	24.2	8.3	8.3	31.3	31.3	95.9	95.9	6.7	6.7	9.1	10	-	-	-	-	-	-	819980	812661	-	-	-	-				
					Middle	2.6	-	-	-	-	-	-	-	-	-	-	-	-	-	6.7	-	-	-	-	-	-	-	-	819980	812661	-	-	-	-		
						2.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	819980	812661	-	-	-	-		
					Bottom	4.1	-	-	24.1	24.1	8.3	8.3	31.3	31.3	98.1	98.2	6.9	6.9	5.0	11	-	-	-	-	-	-	-	-	819980	812661	-	-	-	-		
						4.1	-	-	24.1	24.1	8.3	8.3	31.3	31.3	98.3	98.2	6.9	6.9	4.6	12	-	-	-	-	-	-	-	-	819980	812661	-	-	-	-		
SR2	Cloudy	Moderate	06:59	5.0	Surface	1.0	0.1	260	24.4	24.4	8.3	8.3	31.3	31.3	93.9	94.0	6.6	6.6	9.2	11	88	87	87	87	88	821473	814149	<0.2	1.0	1.0	1.1					
						1.0	0.1	282	24.4	24.4	8.3	8.3	31.3	31.3	94.0	94.0	6.6	6.6	9.1	11	87	87	87	87	87	87	87	821473	814149	<0.2	0.9	0.9	0.9			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	821473	814149	<0.2	1.1	1.1	1.2		
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	821473	814149	<0.2	1.2	1.2	1.2		
					Bottom	4.0	0.1	257	24.4	24.4	8.3	8.3	31.2	31.2	95.2	95.4	6.7	6.7	9.0	11	89	89	89	89	89	89	89	89	821473	814149	<0.2	1.1	1.1	1.2		
						4.0	0.1	262	24.4	24.4	8.3	8.3	31.2	31.2	95.6	95.4	6.7	6.7	8.8	12	89	89	89	89	89	89	89	89	821473	814149	<0.2	1.2	1.2	1.2		
SR3	Cloudy	Moderate	06:04	8.7	Surface	1.0	0.1	144	24.4	24.4	8.2	8.2	30.8	30.8	93.4	93.4	6.5	6.6	5.7	9	-	-	-	-	-	822163	807547	-	-	-	-					
						1.0	0.1	147	24.4	24.4	8.2	8.2	30.8	30.8	93.4	93.4	6.5	6.6	5.7	10	-	-	-	-	-	-	822163	807547	-	-	-	-				
					Middle	4.4	0.1	157	24.4	24.4	8.2	8.2	31.0	31.0	93.5	93.5	6.6	6.6	7.5	7.9	10	-	-	-	-	-	-	822163	807547	-	-	-	-			
						4.4	0.1	170	24.4	24.4	8.2	8.2	31.0	31.0	93.5	93.5	6.6	6.6	7.6	9	-	-	-	-	-	-	-	822163	807547	-	-	-	-			
					Bottom	7.7	0.0	250	24.3	24.3	8.3	8.3	31.0	31.0	94.2	94.3	6.6	6.6	10.3	11	-	-	-	-	-	-	-	-	822163	807547	-	-	-	-		
						7.7	0.0	268	24.3	24.3	8.3	8.3	31.0	31.0	94.3	94.3	6.6	6.6	10.6	11	-	-	-	-	-	-	-	-	822163	807547	-	-	-	-		
SR4A	Fine	Calm	06:48	10.0	Surface	1.0	0.3	69	24.7	24.7	8.2	8.2	32.5	32.5	94.0	94.0	6.5	6.5	3.3	5	-	-	-	-	-	817186	807807	-	-	-	-					
						1.0	0.3	73	24.7	24.7	8.2	8.2	32.5	32.5	94.0	94.0	6.5																			



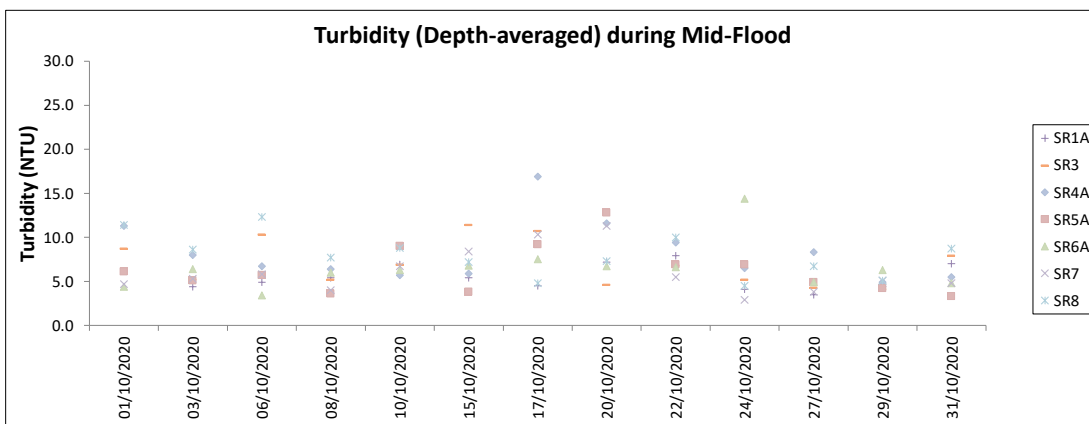
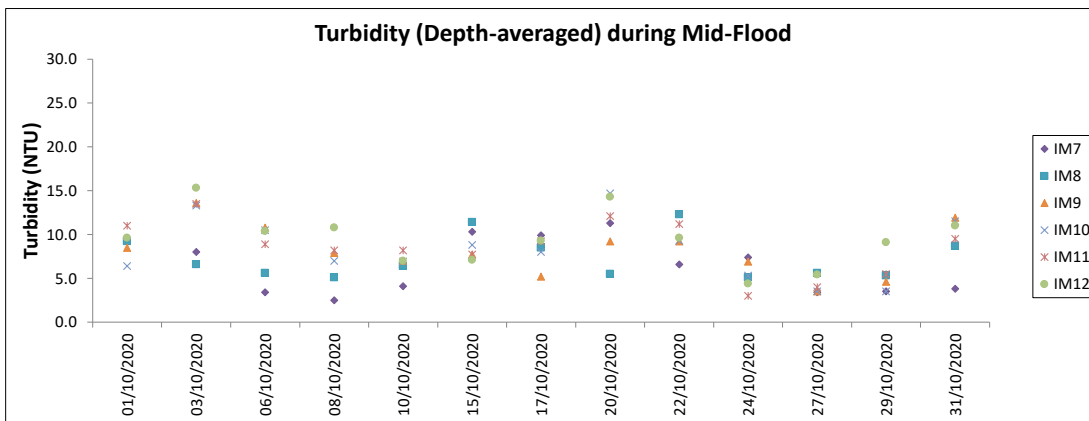
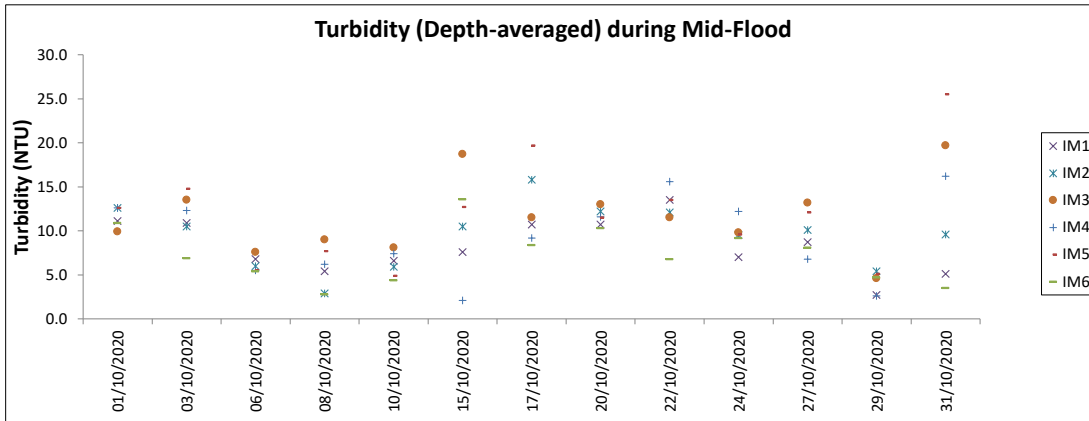
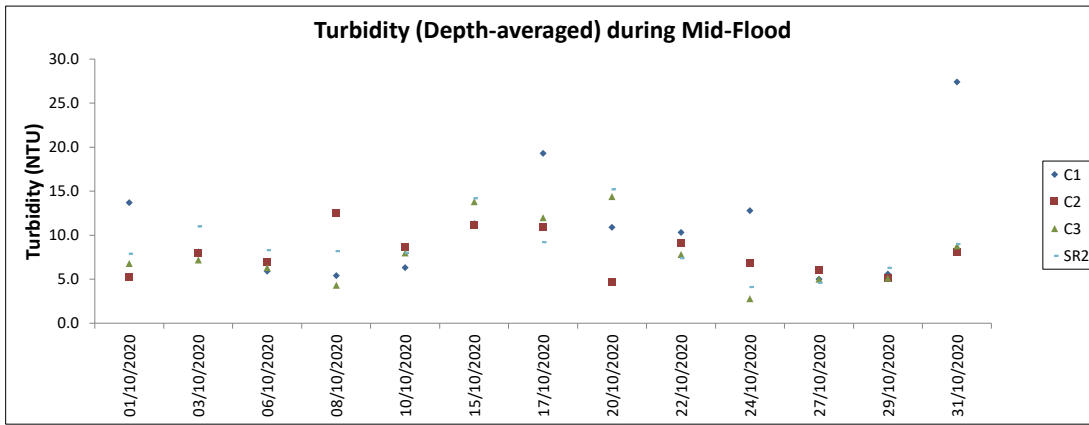






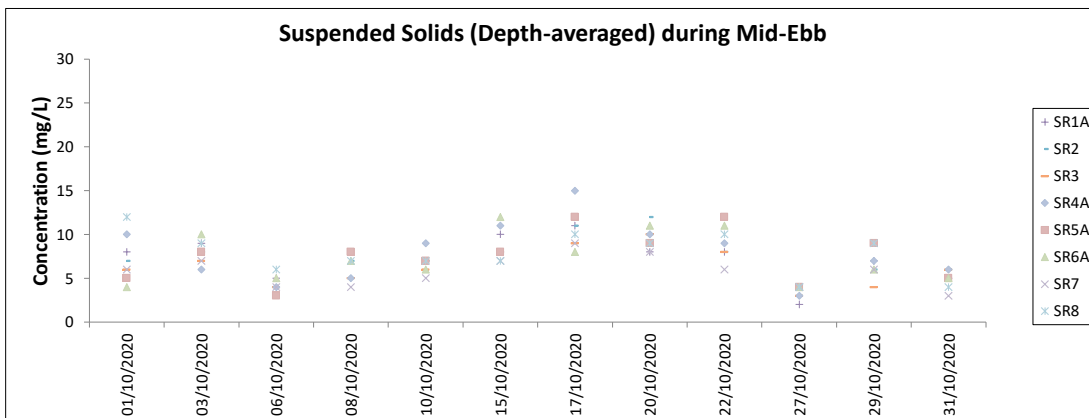
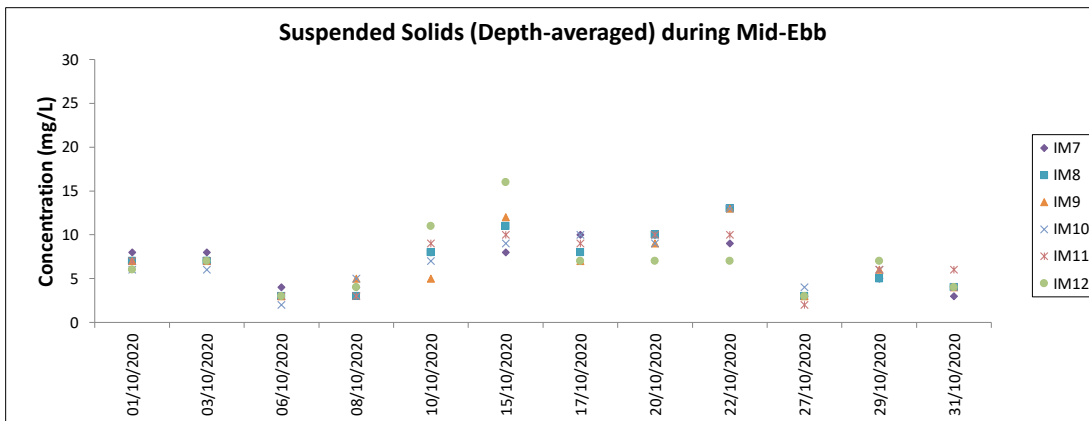
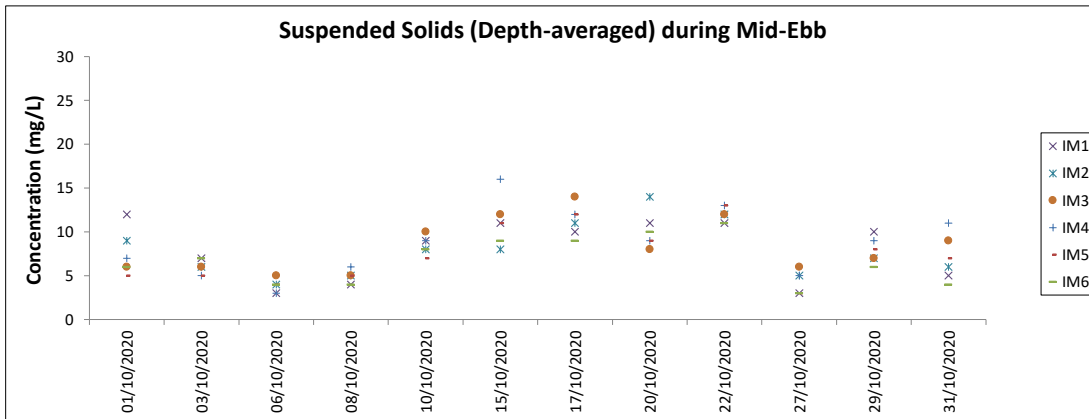
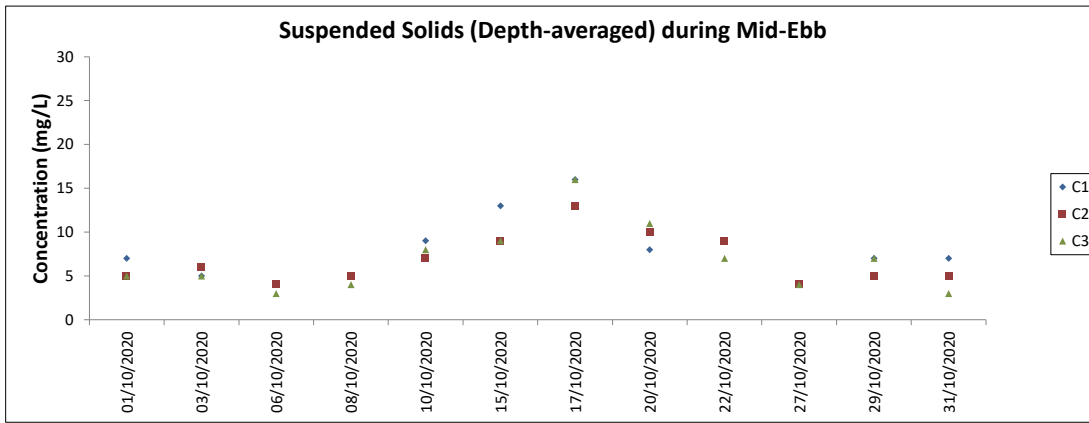


Note: The Action and Limit Level of turbidity can be referred to Table 4.2 of the monthly EM&A report.

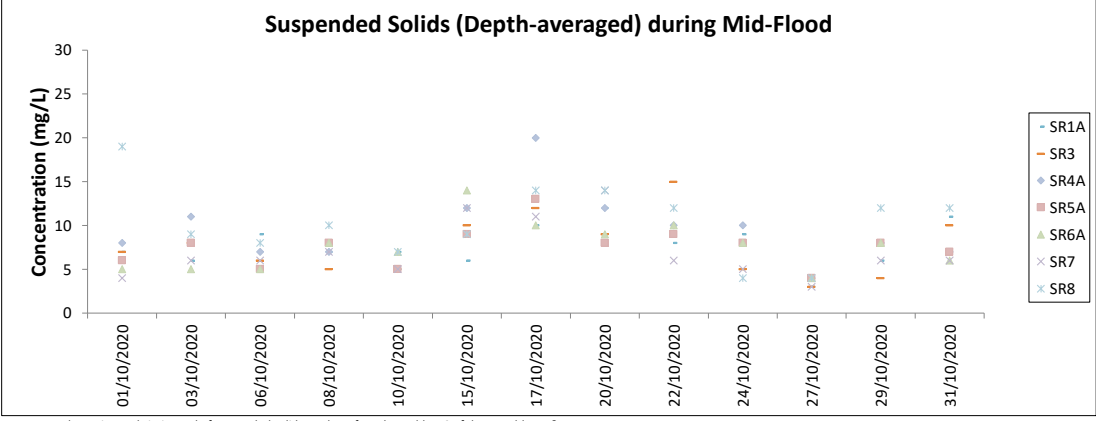
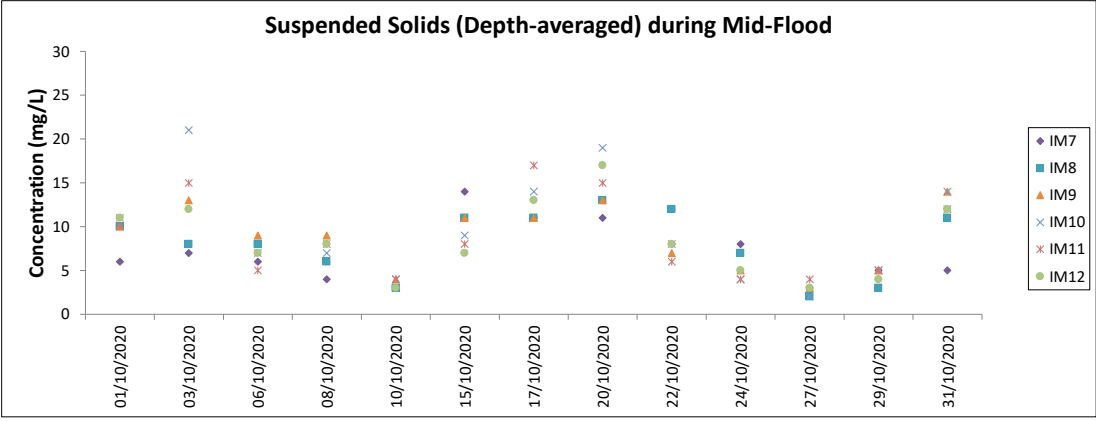
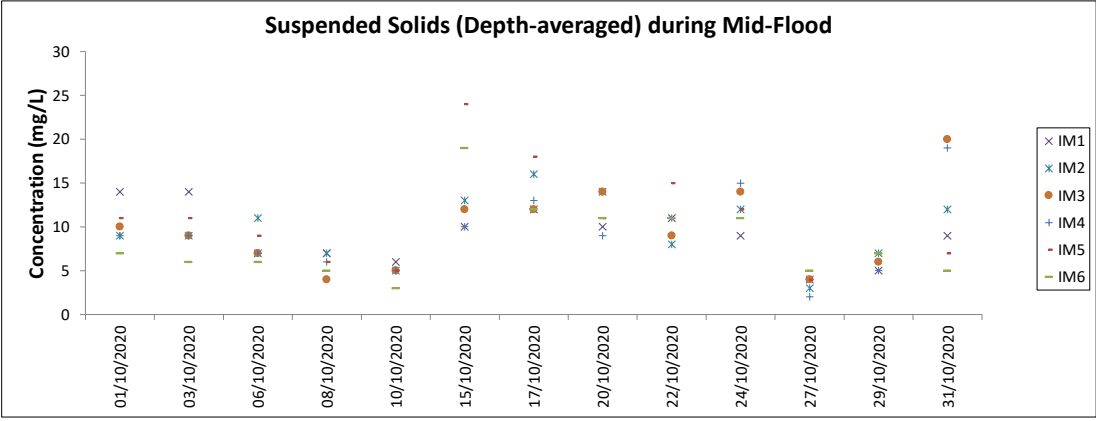
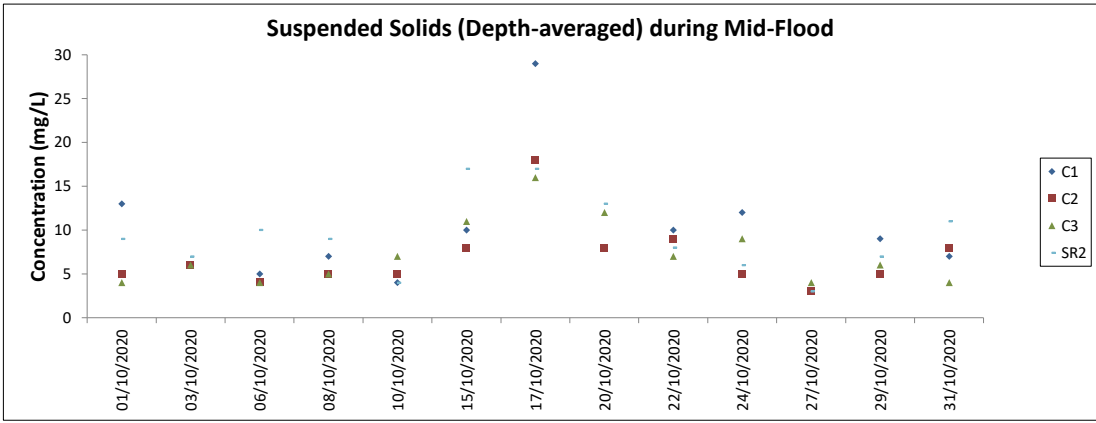


Note: The Action and Limit Level of turbidity can be referred to Table 4.2 of the monthly EM&A report.

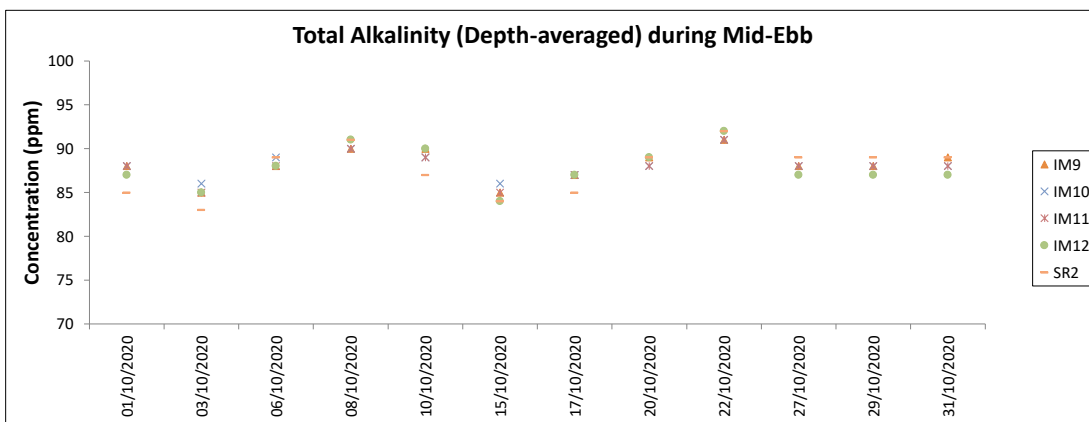
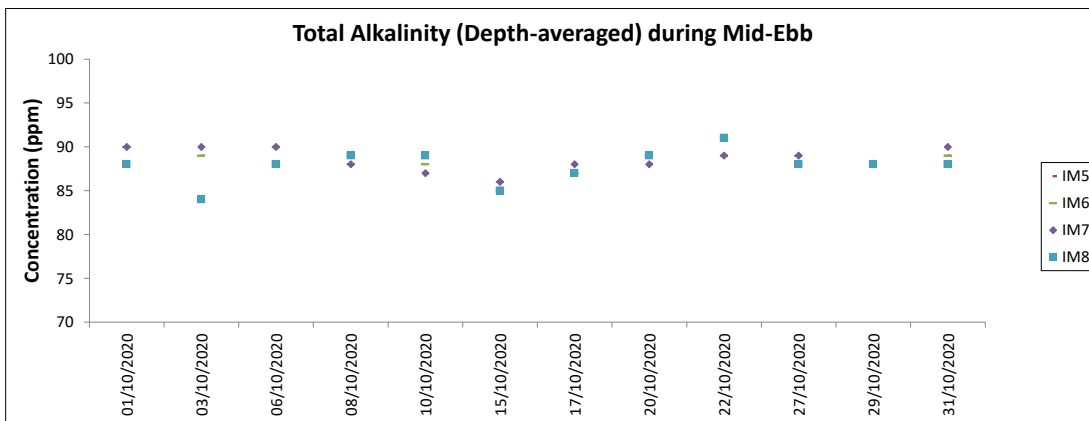
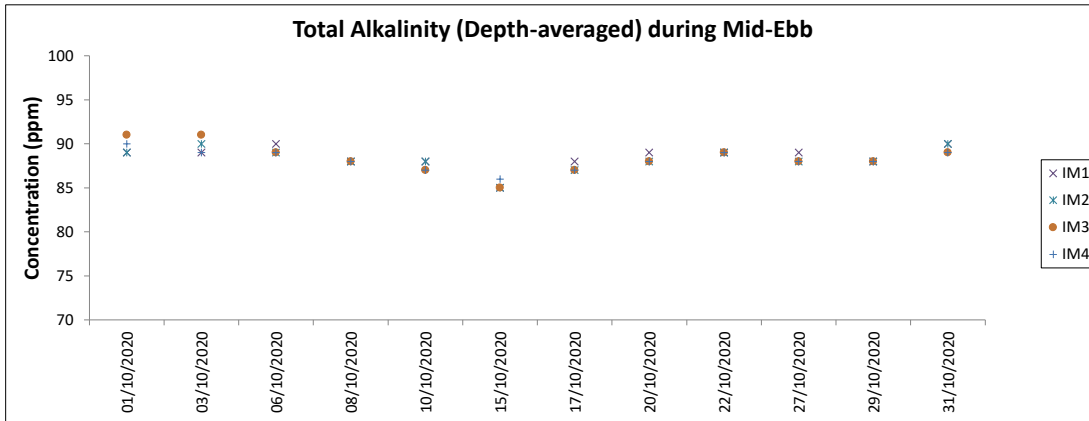
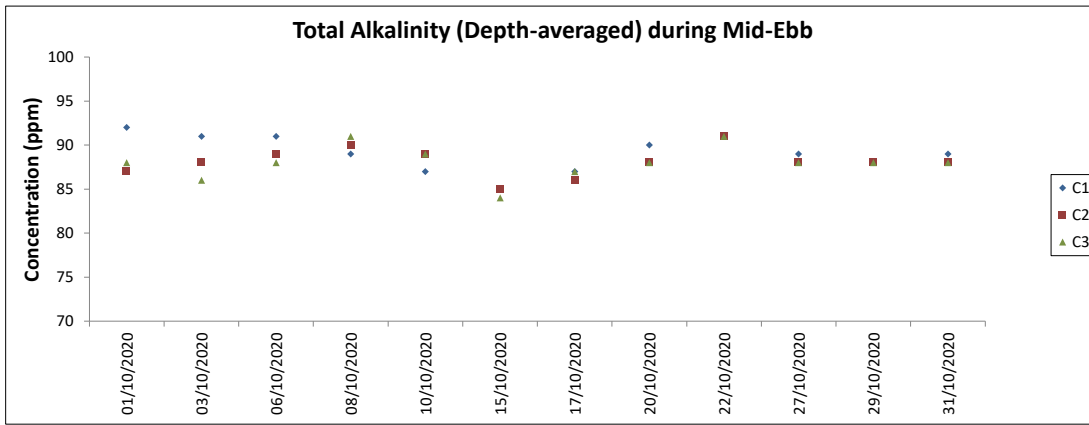




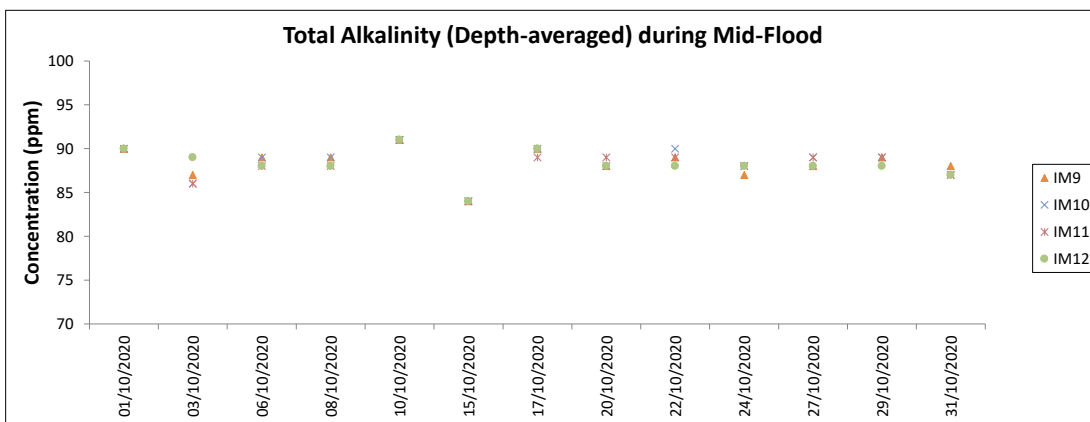
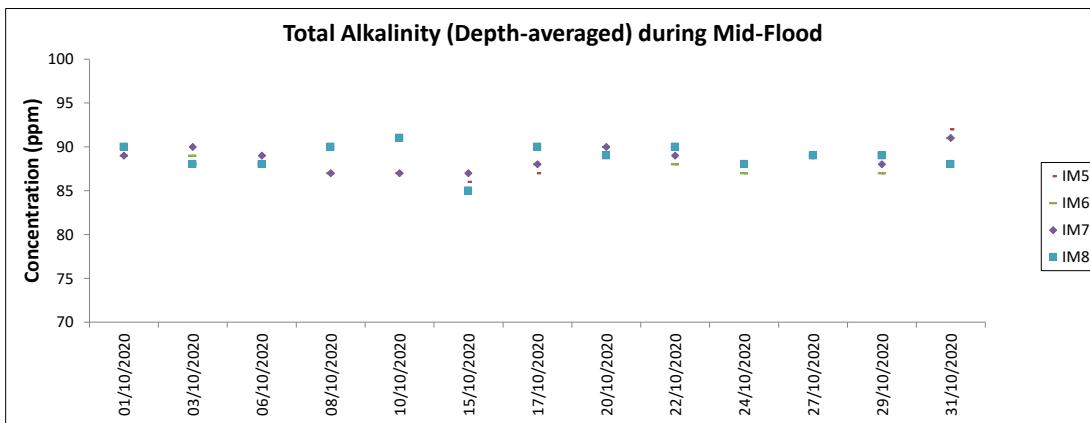
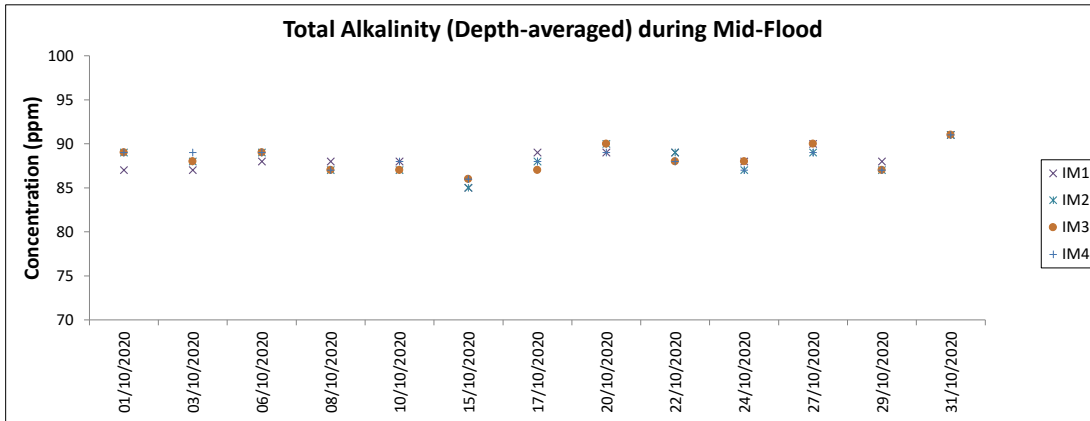
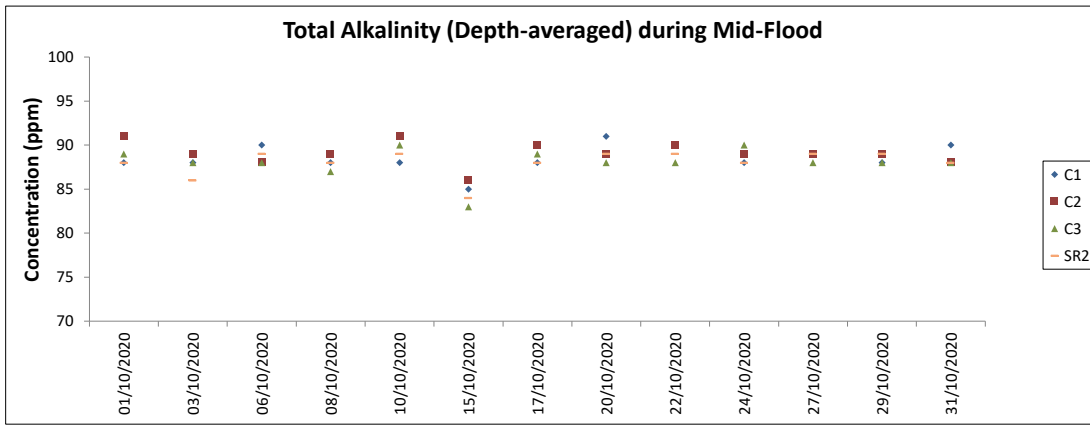
Note: The Action and Limit Level of suspended solids can be referred to Table 4.2 of the monthly EM&A report.



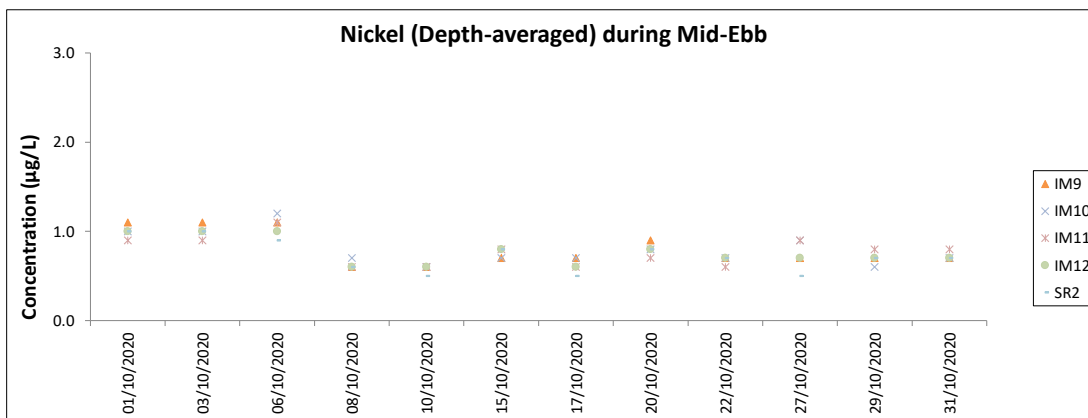
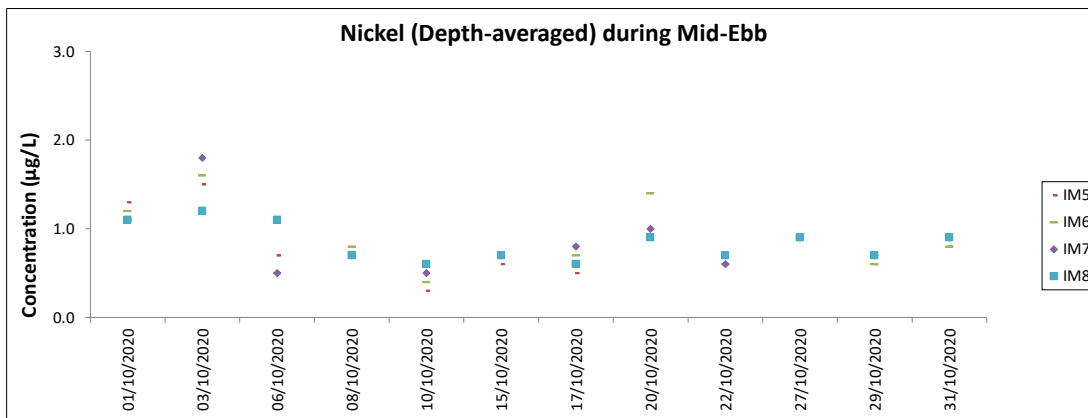
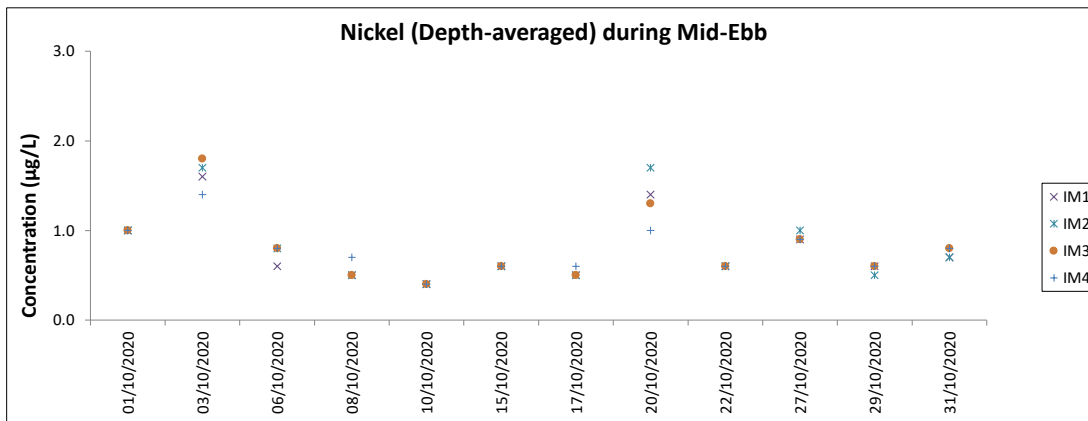
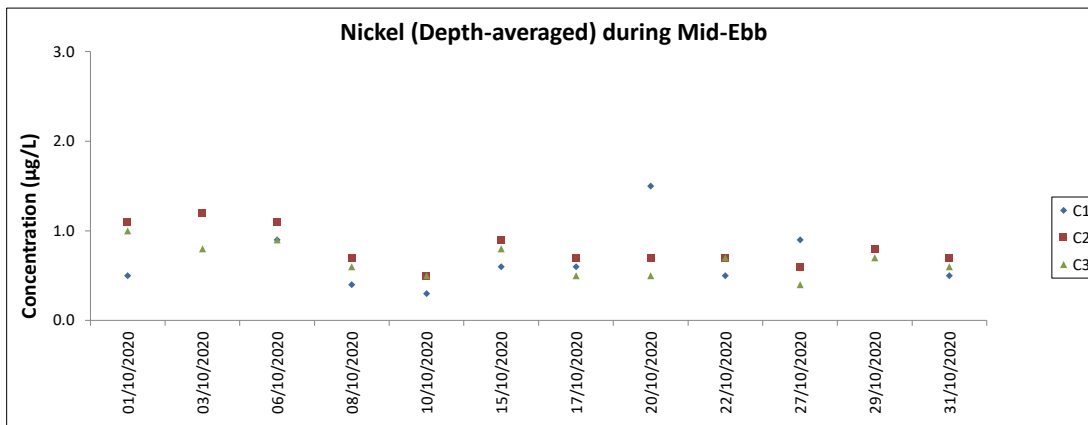
Note: The Action and Limit Level of suspended solids can be referred to Table 4.2 of the monthly EM&A report.



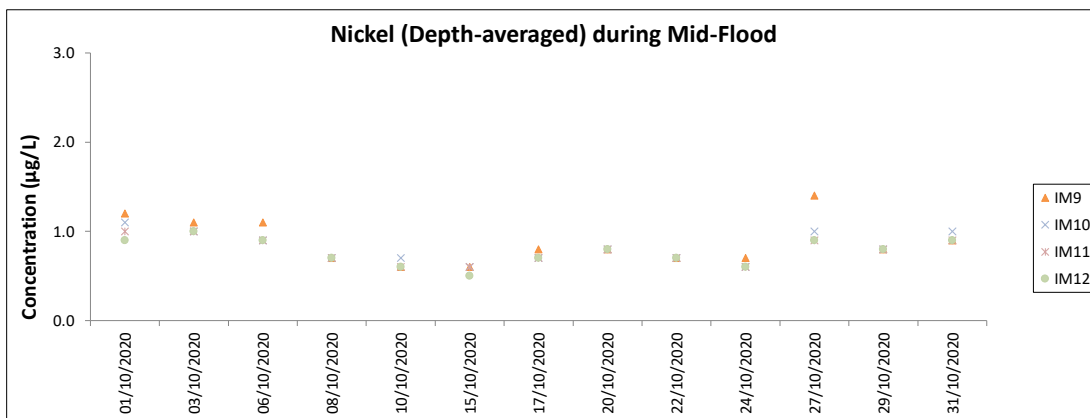
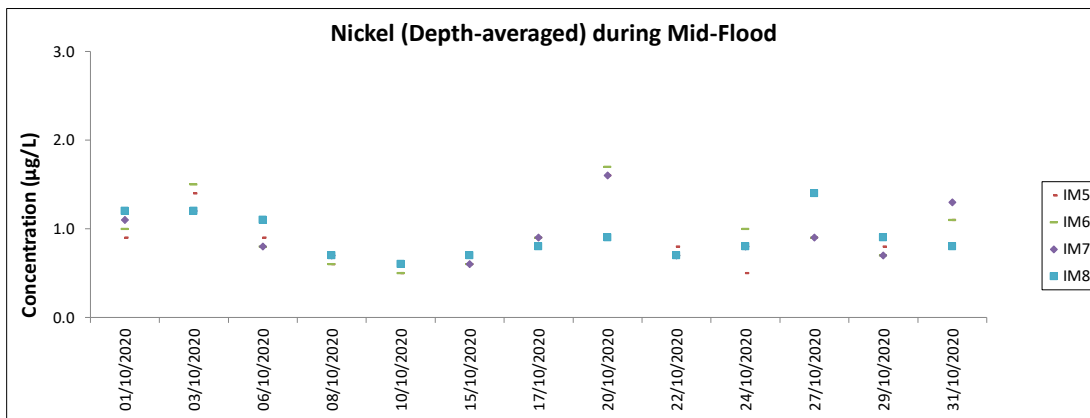
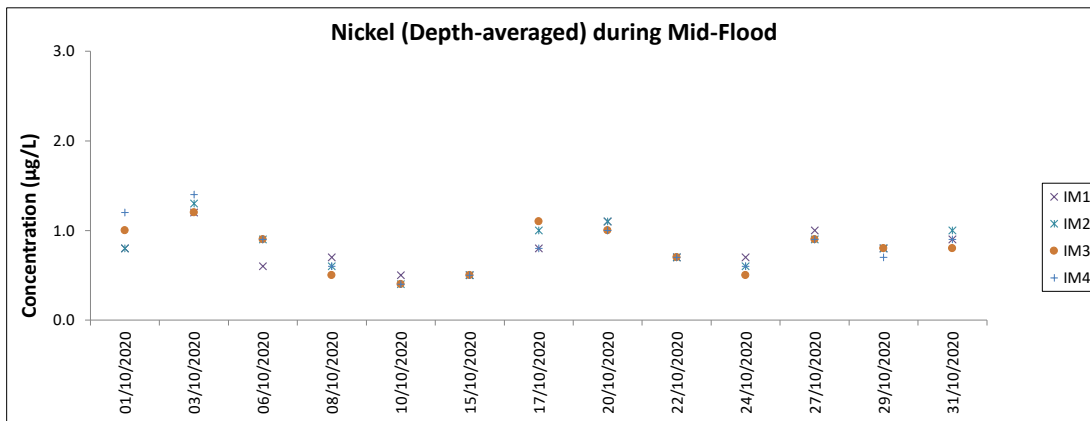
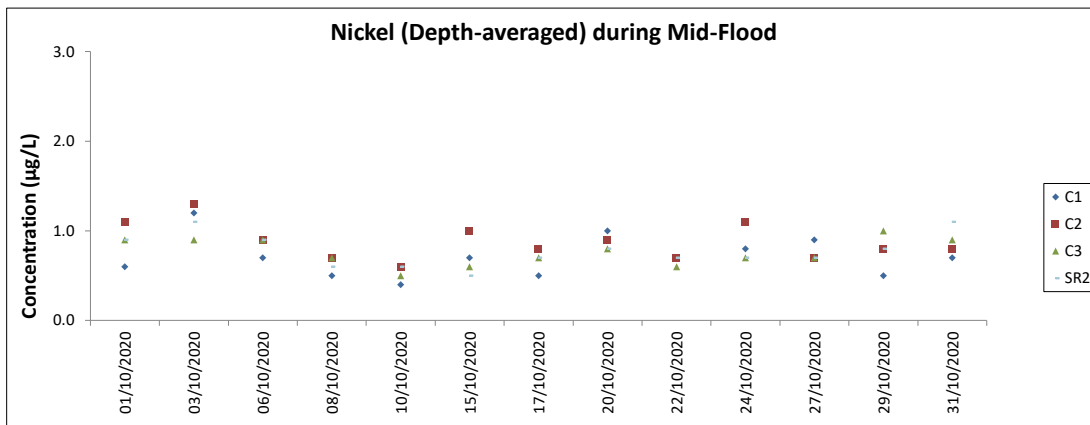
Note: The Action and Limit Level of total alkalinity can be referred to Table 4.2 of the monthly EM&A report.



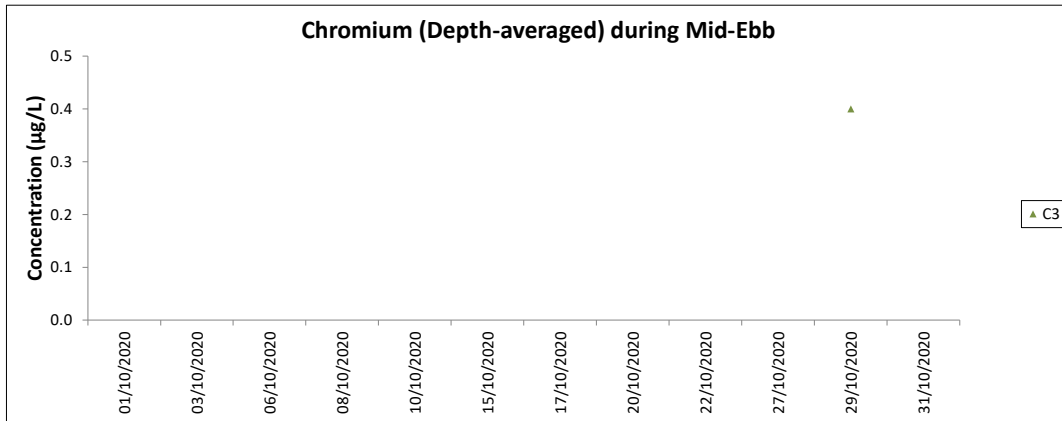
Note: The Action and Limit Level of total alkalinity can be referred to Table 4.2 of the monthly EM&A report.



Note: The Action and Limit Level of nickel can be referred to Table 4.2 of the monthly EM&A report.



Note: The Action and Limit Level of nickel can be referred to Table 4.2 of the monthly EM&A report.  
 Major site activities carried out during the reporting period are summarized in Section 1.4 of the monthly EM&A report.  
 Weather conditions during monitoring are presented in the data tables above.  
 QA/ QC requirements as stipulated in the EM&A Manual were carried out during measurement.



Note: The Action and Limit Level of chromium can be referred to Table 4.2 of the monthly EM&A report. All other chromium in the reporting period was below the reporting limit 0.2 µg/L.

# **Chinese White Dolphin Monitoring Results**



## CWD Small Vessel Line-transect Survey

## Survey Effort Data

DATE	AREA	BEAU	KM SEARCHED	SEASON	VESSEL	TYPE	P/S
7-Aug-20	AW	2	4.830	SUMMER	32166	3RS ET	P
7-Aug-20	WL	2	11.333	SUMMER	32166	3RS ET	P
7-Aug-20	WL	3	8.330	SUMMER	32166	3RS ET	P
7-Aug-20	WL	2	2.260	SUMMER	32166	3RS ET	S
7-Aug-20	WL	3	4.810	SUMMER	32166	3RS ET	S
10-Aug-20	SWL	2	36.803	SUMMER	32166	3RS ET	P
10-Aug-20	SWL	3	14.500	SUMMER	32166	3RS ET	P
10-Aug-20	SWL	2	13.697	SUMMER	32166	3RS ET	S
10-Aug-20	SWL	3	3.100	SUMMER	32166	3RS ET	S
11-Aug-20	NWL	2	18.930	SUMMER	32166	3RS ET	P
11-Aug-20	NWL	3	41.090	SUMMER	32166	3RS ET	P
11-Aug-20	NWL	4	3.780	SUMMER	32166	3RS ET	P
11-Aug-20	NWL	2	5.600	SUMMER	32166	3RS ET	S
11-Aug-20	NWL	3	6.200	SUMMER	32166	3RS ET	S
12-Aug-20	NEL	2	16.500	SUMMER	32166	3RS ET	P
12-Aug-20	NEL	3	19.360	SUMMER	32166	3RS ET	P
12-Aug-20	NEL	4	1.500	SUMMER	32166	3RS ET	P
12-Aug-20	NEL	2	5.270	SUMMER	32166	3RS ET	S
12-Aug-20	NEL	3	4.770	SUMMER	32166	3RS ET	S
17-Aug-20	AW	2	1.860	SUMMER	32166	3RS ET	P
17-Aug-20	AW	3	3.020	SUMMER	32166	3RS ET	P
17-Aug-20	WL	2	0.520	SUMMER	32166	3RS ET	P
17-Aug-20	WL	3	17.310	SUMMER	32166	3RS ET	P
17-Aug-20	WL	4	1.510	SUMMER	32166	3RS ET	P
17-Aug-20	WL	2	4.080	SUMMER	32166	3RS ET	S
17-Aug-20	WL	3	4.590	SUMMER	32166	3RS ET	S
17-Aug-20	WL	4	0.717	SUMMER	32166	3RS ET	S
18-Aug-20	NEL	2	29.590	SUMMER	32166	3RS ET	P
18-Aug-20	NEL	3	7.650	SUMMER	32166	3RS ET	P
18-Aug-20	NEL	2	9.100	SUMMER	32166	3RS ET	S
18-Aug-20	NEL	3	0.860	SUMMER	32166	3RS ET	S
24-Aug-20	SWL	2	35.344	SUMMER	32166	3RS ET	P
24-Aug-20	SWL	3	19.010	SUMMER	32166	3RS ET	P
24-Aug-20	SWL	2	11.416	SUMMER	32166	3RS ET	S
24-Aug-20	SWL	3	4.500	SUMMER	32166	3RS ET	S
26-Aug-20	NWL	2	13.100	SUMMER	32166	3RS ET	P
26-Aug-20	NWL	3	31.500	SUMMER	32166	3RS ET	P
26-Aug-20	NWL	4	16.400	SUMMER	32166	3RS ET	P
26-Aug-20	NWL	5	2.300	SUMMER	32166	3RS ET	P
26-Aug-20	NWL	2	4.200	SUMMER	32166	3RS ET	S
26-Aug-20	NWL	3	6.300	SUMMER	32166	3RS ET	S
26-Aug-20	NWL	4	1.000	SUMMER	32166	3RS ET	S
4-Sep-20	SWL	2	25.320	AUTUMN	32166	3RS ET	P
4-Sep-20	SWL	3	29.549	AUTUMN	32166	3RS ET	P
4-Sep-20	SWL	2	8.590	AUTUMN	32166	3RS ET	S
4-Sep-20	SWL	3	6.451	AUTUMN	32166	3RS ET	S
7-Sep-20	SWL	2	25.950	AUTUMN	32166	3RS ET	P

DATE	AREA	BEAU	KM SEARCHED	SEASON	VESSEL	TYPE	P/S
7-Sep-20	SWL	3	28.860	AUTUMN	32166	3RS ET	P
7-Sep-20	SWL	2	12.590	AUTUMN	32166	3RS ET	S
7-Sep-20	SWL	3	3.400	AUTUMN	32166	3RS ET	S
8-Sep-20	NWL	2	41.020	AUTUMN	32166	3RS ET	P
8-Sep-20	NWL	3	21.980	AUTUMN	32166	3RS ET	P
8-Sep-20	NWL	2	7.700	AUTUMN	32166	3RS ET	S
8-Sep-20	NWL	3	4.200	AUTUMN	32166	3RS ET	S
9-Sep-20	AW	2	4.940	AUTUMN	32166	3RS ET	P
9-Sep-20	WL	1	1.240	AUTUMN	32166	3RS ET	P
9-Sep-20	WL	2	12.810	AUTUMN	32166	3RS ET	P
9-Sep-20	WL	3	5.833	AUTUMN	32166	3RS ET	P
9-Sep-20	WL	2	7.540	AUTUMN	32166	3RS ET	S
9-Sep-20	WL	3	3.077	AUTUMN	32166	3RS ET	S
14-Sep-20	NWL	1	0.600	AUTUMN	32166	3RS ET	P
14-Sep-20	NWL	2	20.910	AUTUMN	32166	3RS ET	P
14-Sep-20	NWL	3	29.290	AUTUMN	32166	3RS ET	P
14-Sep-20	NWL	4	12.600	AUTUMN	32166	3RS ET	P
14-Sep-20	NWL	2	4.100	AUTUMN	32166	3RS ET	S
14-Sep-20	NWL	3	5.700	AUTUMN	32166	3RS ET	S
14-Sep-20	NWL	4	1.900	AUTUMN	32166	3RS ET	S
15-Sep-20	AW	2	3.010	AUTUMN	32166	3RS ET	P
15-Sep-20	AW	3	1.940	AUTUMN	32166	3RS ET	P
15-Sep-20	WL	2	9.663	AUTUMN	32166	3RS ET	P
15-Sep-20	WL	3	9.010	AUTUMN	32166	3RS ET	P
15-Sep-20	WL	4	0.900	AUTUMN	32166	3RS ET	P
15-Sep-20	WL	2	5.657	AUTUMN	32166	3RS ET	S
15-Sep-20	WL	3	5.440	AUTUMN	32166	3RS ET	S
17-Sep-20	NEL	2	7.670	AUTUMN	32166	3RS ET	P
17-Sep-20	NEL	3	19.980	AUTUMN	32166	3RS ET	P
17-Sep-20	NEL	4	9.600	AUTUMN	32166	3RS ET	P
17-Sep-20	NEL	2	2.050	AUTUMN	32166	3RS ET	S
17-Sep-20	NEL	3	5.500	AUTUMN	32166	3RS ET	S
17-Sep-20	NEL	4	3.100	AUTUMN	32166	3RS ET	S
22-Sep-20	NEL	2	4.100	AUTUMN	32166	3RS ET	P
22-Sep-20	NEL	3	28.500	AUTUMN	32166	3RS ET	P
22-Sep-20	NEL	4	5.000	AUTUMN	32166	3RS ET	P
22-Sep-20	NEL	2	2.800	AUTUMN	32166	3RS ET	S
22-Sep-20	NEL	3	6.900	AUTUMN	32166	3RS ET	S
22-Sep-20	NEL	4	0.300	AUTUMN	32166	3RS ET	S
12-Oct-20	NEL	2	25.180	AUTUMN	32166	3RS ET	P
12-Oct-20	NEL	3	11.540	AUTUMN	32166	3RS ET	P
12-Oct-20	NEL	2	7.680	AUTUMN	32166	3RS ET	S
12-Oct-20	NEL	3	3.000	AUTUMN	32166	3RS ET	S
14-Oct-20	NEL	2	1.400	AUTUMN	32166	3RS ET	P
14-Oct-20	NEL	3	8.600	AUTUMN	32166	3RS ET	P
14-Oct-20	NEL	4	20.650	AUTUMN	32166	3RS ET	P
14-Oct-20	NEL	5	6.550	AUTUMN	32166	3RS ET	P
14-Oct-20	NEL	3	4.100	AUTUMN	32166	3RS ET	S
14-Oct-20	NEL	4	6.000	AUTUMN	32166	3RS ET	S

DATE	AREA	BEAU	KM SEARCHED	SEASON	VESSEL	TYPE	P/S
16-Oct-20	NWL	2	9.200	AUTUMN	32166	3RS ET	P
16-Oct-20	NWL	3	47.000	AUTUMN	32166	3RS ET	P
16-Oct-20	NWL	4	6.800	AUTUMN	32166	3RS ET	P
16-Oct-20	NWL	2	3.100	AUTUMN	32166	3RS ET	S
16-Oct-20	NWL	3	9.200	AUTUMN	32166	3RS ET	S
19-Oct-20	AW	3	1.970	AUTUMN	32166	3RS ET	P
19-Oct-20	AW	4	3.000	AUTUMN	32166	3RS ET	P
19-Oct-20	WL	3	19.136	AUTUMN	32166	3RS ET	P
19-Oct-20	WL	4	0.760	AUTUMN	32166	3RS ET	P
19-Oct-20	WL	2	1.200	AUTUMN	32166	3RS ET	S
19-Oct-20	WL	3	9.374	AUTUMN	32166	3RS ET	S
21-Oct-20	SWL	3	21.246	AUTUMN	32166	3RS ET	P
21-Oct-20	SWL	4	14.620	AUTUMN	32166	3RS ET	P
21-Oct-20	SWL	5	16.990	AUTUMN	32166	3RS ET	P
21-Oct-20	SWL	3	4.817	AUTUMN	32166	3RS ET	S
21-Oct-20	SWL	4	10.860	AUTUMN	32166	3RS ET	S
21-Oct-20	SWL	5	1.000	AUTUMN	32166	3RS ET	S
27-Oct-20	AW	2	4.820	AUTUMN	32166	3RS ET	P
27-Oct-20	WL	2	5.659	AUTUMN	32166	3RS ET	P
27-Oct-20	WL	3	12.127	AUTUMN	32166	3RS ET	P
27-Oct-20	WL	2	2.431	AUTUMN	32166	3RS ET	S
27-Oct-20	WL	3	7.380	AUTUMN	32166	3RS ET	S
28-Oct-20	SWL	2	0.500	AUTUMN	32166	3RS ET	P
28-Oct-20	SWL	3	49.653	AUTUMN	32166	3RS ET	P
28-Oct-20	SWL	4	3.790	AUTUMN	32166	3RS ET	P
28-Oct-20	SWL	2	0.800	AUTUMN	32166	3RS ET	S
28-Oct-20	SWL	3	13.537	AUTUMN	32166	3RS ET	S
28-Oct-20	SWL	4	2.220	AUTUMN	32166	3RS ET	S
29-Oct-20	NWL	2	17.120	AUTUMN	32166	3RS ET	P
29-Oct-20	NWL	3	46.080	AUTUMN	32166	3RS ET	P
29-Oct-20	NWL	2	1.200	AUTUMN	32166	3RS ET	S
29-Oct-20	NWL	3	10.600	AUTUMN	32166	3RS ET	S

Notes: CWD monitoring survey data of the two preceding survey months are presented for reference only.

## CWD Small Vessel Line-transect Survey

## Sighting Data

DATE	STG #	TIME	CWD/FP	GP SZ	AREA	BEAU	PSD	EFFORT	TYPE	DEC LAT	DEC LON	SEASON	BOAT ASSOC.	P/S
7-Aug-20	1	1006	CWD	1	WL	2	57	ON	3RS ET	22.2972	113.8611	SUMMER	NONE	P
7-Aug-20	2	1033	CWD	2	WL	2	96	ON	3RS ET	22.2768	113.8514	SUMMER	NONE	S
7-Aug-20	3	1158	CWD	3	WL	3	8	ON	3RS ET	22.2174	113.8200	SUMMER	NONE	S
7-Aug-20	4	1228	CWD	13	WL	3	111	ON	3RS ET	22.2140	113.8303	SUMMER	NONE	P
7-Aug-20	5	1337	CWD	1	WL	3	235	ON	3RS ET	22.1955	113.8396	SUMMER	NONE	P
10-Aug-20	1	1122	FP	4	SWL	2	59	ON	3RS ET	22.1802	113.9280	SUMMER	NONE	P
10-Aug-20	2	1515	CWD	2	SWL	3	3	ON	3RS ET	22.1883	113.8491	SUMMER	NONE	P
10-Aug-20	3	1528	CWD	1	SWL	3	37	ON	3RS ET	22.1931	113.8499	SUMMER	NONE	P
17-Aug-20	1	1102	CWD	9	WL	3	229	ON	3RS ET	22.2408	113.8378	SUMMER	NONE	P
17-Aug-20	2	1222	CWD	1	WL	4	304	ON	3RS ET	22.1928	113.8424	SUMMER	NONE	S
24-Aug-20	1	1054	FP	2	SWL	2	61	ON	3RS ET	22.1462	113.9319	SUMMER	NONE	S
24-Aug-20	2	1318	FP	8	SWL	2	63	ON	3RS ET	22.1565	113.8876	SUMMER	NONE	P
4-Sep-20	1	1111	FP	3	SWL	2	93	ON	3RS ET	22.1500	113.9273	AUTUMN	NONE	P
4-Sep-20	2	1129	FP	6	SWL	2	328	ON	3RS ET	22.1869	113.9273	AUTUMN	NONE	P
4-Sep-20	3	1225	FP	1	SWL	2	47	ON	3RS ET	22.1547	113.9040	AUTUMN	NONE	S
4-Sep-20	4	1330	FP	7	SWL	3	15	ON	3RS ET	22.1493	113.8977	AUTUMN	NONE	P
9-Sep-20	1	1030	CWD	2	WL	2	189	ON	3RS ET	22.2632	113.8568	AUTUMN	NONE	S
9-Sep-20	2	1213	CWD	8	WL	3	323	ON	3RS ET	22.1965	113.8398	AUTUMN	NONE	P
15-Sep-20	1	1053	CWD	2	WL	2	85	ON	3RS ET	22.2689	113.8508	AUTUMN	NONE	P
15-Sep-20	2	1158	CWD	2	WL	3	20	ON	3RS ET	22.2320	113.8378	AUTUMN	NONE	P
15-Sep-20	3	1242	CWD	5	WL	3	225	ON	3RS ET	22.2058	113.8398	AUTUMN	NONE	S
19-Oct-20	1	1103	CWD	3	WL	3	22	ON	3RS ET	22.2419	113.8371	AUTUMN	NONE	P
19-Oct-20	2	1133	CWD	1	WL	3	10	ON	3RS ET	22.2239	113.8328	AUTUMN	NONE	P
19-Oct-20	3	1148	CWD	1	WL	3	226	ON	3RS ET	22.2181	113.8197	AUTUMN	NONE	S
21-Oct-20	1	1116	FP	1	SWL	3	404	ON	3RS ET	22.1478	113.9271	AUTUMN	NONE	P
21-Oct-20	2	1447	CWD	1	SWL	4	270	ON	3RS ET	22.1945	113.8687	AUTUMN	NONE	P
21-Oct-20	3	1527	CWD	6	SWL	3	60	ON	3RS ET	22.1836	113.8492	AUTUMN	NONE	P
21-Oct-20	4	1547	CWD	15	SWL	3	1340	ON	3RS ET	22.1944	113.8498	AUTUMN	NONE	P
27-Oct-20	1	1123	CWD	6	WL	3	104	ON	3RS ET	22.2318	113.8268	AUTUMN	NONE	P
27-Oct-20	2	1138	CWD	4	WL	3	378	ON	3RS ET	22.2320	113.8336	AUTUMN	NONE	P
27-Oct-20	3	1149	CWD	3	WL	3	92	ON	3RS ET	22.2329	113.8360	AUTUMN	NONE	P
27-Oct-20	4	1213	CWD	3	WL	3	337	ON	3RS ET	22.2142	113.8288	AUTUMN	NONE	P

DATE	STG #	TIME	CWD/FP	GP SZ	AREA	BEAU	PSD	EFFORT	TYPE	DEC LAT	DEC LON	SEASON	BOAT ASSOC.	P/S
27-Oct-20	5	1228	CWD	3	WL	3	387	ON	3RS ET	22.2138	113.8289	AUTUMN	NONE	P
27-Oct-20	6	1232	CWD	8	WL	3	624	ON	3RS ET	22.2138	113.8336	AUTUMN	NONE	P
27-Oct-20	7	1302	CWD	7	WL	3	147	ON	3RS ET	22.2058	113.8261	AUTUMN	NONE	P
27-Oct-20	8	1320	CWD	1	WL	3	838	ON	3RS ET	22.2027	113.8233	AUTUMN	NONE	S
27-Oct-20	9	1341	CWD	3	WL	2	693	ON	3RS ET	22.1880	113.8454	AUTUMN	NONE	S
28-Oct-20	1	1306	FP	2	SWL	3	35	ON	3RS ET	22.1577	113.8977	AUTUMN	NONE	P

Abbreviations: STG# = Sighting Number; GP SZ = Group Size; BEAU = Beaufort Sea State; PSD = Perpendicular Distance (in metres); N/A = Not Applicable; DEC LAT = Latitude (WGS84 in Decimal), DEC LON = Longitude (WGS84 in Decimal); BOAT ASSOC. = Fishing Boat Association; P/S = Primary Transect / Secondary Transect

Notes:

CWD monitoring survey data of the two preceding survey months are presented for reference only. No relevant figure or text will be mentioned in this monthly EM&A report.

Sighting data of finless porpoise (FP) are presented for reference only. No relevant figure or text will be mentioned in the monthly EM&A report. All FP sightings are excluded in calculation.

Calculation of the encounter rates STG and ANI in the whole survey area (NEL, NWL, AW, WL, SWL):

A total of 359.650 km of survey effort was collected under Beaufort Sea State 3 or below with favourable visibility; total no. of 14 on-effort sightings and total number of 64 dolphins from on-effort sightings were collected under such condition. Calculation of the encounter rates in October 2020 are shown as below:

Encounter Rate by Number of Dolphin Sightings (STG) in October 2020

$$STG = \frac{14}{359.650} \times 100 = 3.89$$

Encounter Rate by Number of Dolphins (ANI) in October 2020

$$ANI = \frac{64}{359.650} \times 100 = 17.80$$

Calculation of the running quarterly STG and ANI in the whole survey area (NEL, NWL, AW, WL, SWL):

A total of 1204.853 km of survey effort was collected under Beaufort Sea State 3 or below with favourable visibility; total no. of 27 on-effort sightings and total number of 115 dolphins from on-effort sightings were collected under such condition. Calculation of the running quarterly encounter rates are shown as below:

Running Quarterly Encounter Rate by Number of Dolphin Sightings (STG)









$$STG = \frac{27}{1204.853} \times 100 = 2.24$$

Running Quarterly Encounter Rate by Number of Dolphins (ANI)

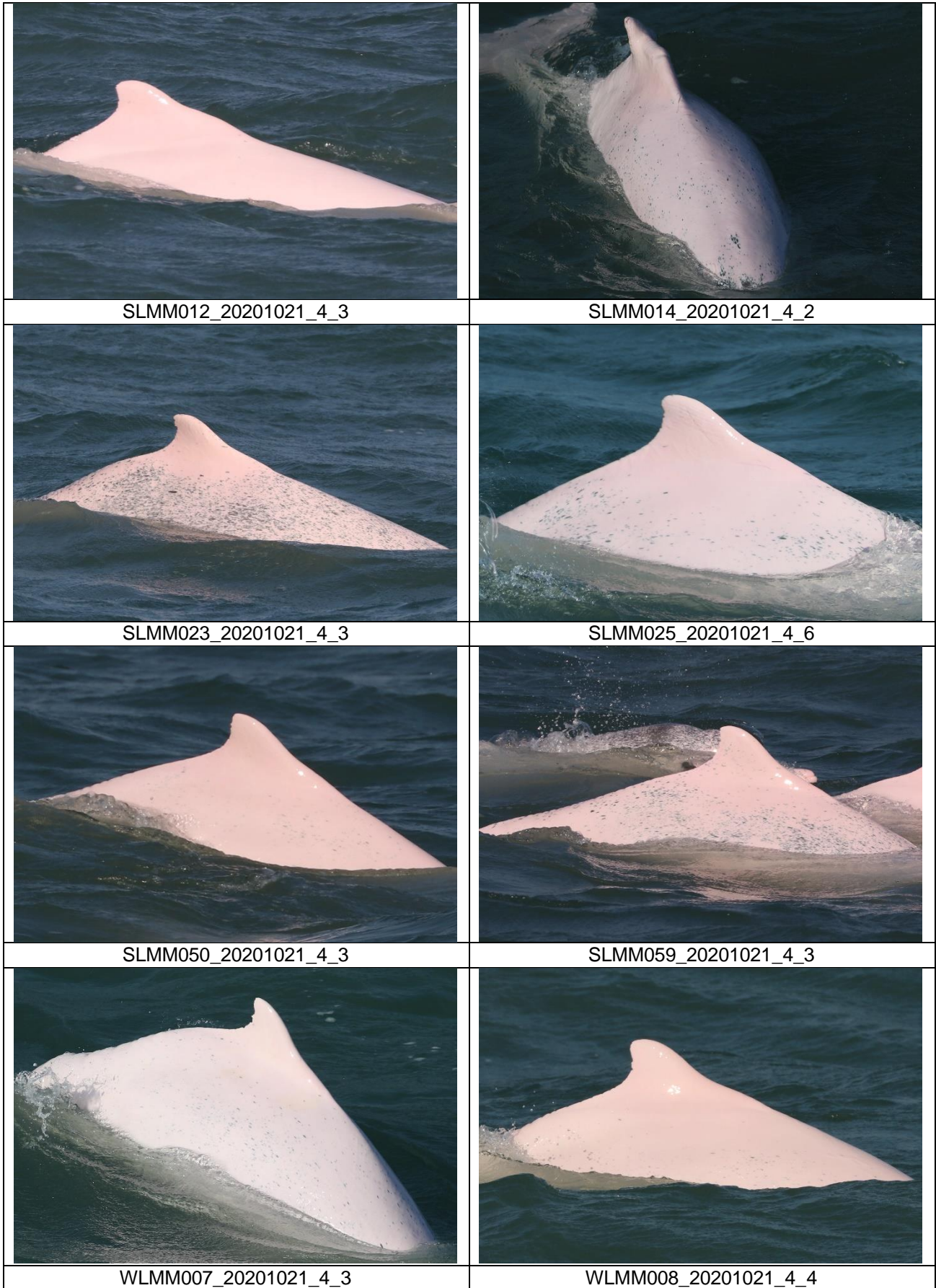
$$ANI = \frac{115}{1204.853} \times 100 = 9.54$$

CWD Small Vessel Line-transect Survey

Photo Identification

	
WLMM065_20201019_1_4	SLMM031_20201021_2_3
	
SLMM023_20201021_3_3	SLMM025_20201021_3_1
	
WLMM018_20201021_3_2	WLMM073_20201021_3_1
	
SLMM002_20201021_4_3	SLMM010_20201021_4_1









WLMM070\_20201021\_4\_3



WLMM073\_20201021\_4\_6



WLMM114\_20201021\_4\_2



WLMM060\_20201027\_1\_2



WLMM070\_20201027\_1\_4



WLMM071\_20201027\_1\_10











WLMM060\_20201027\_2\_2

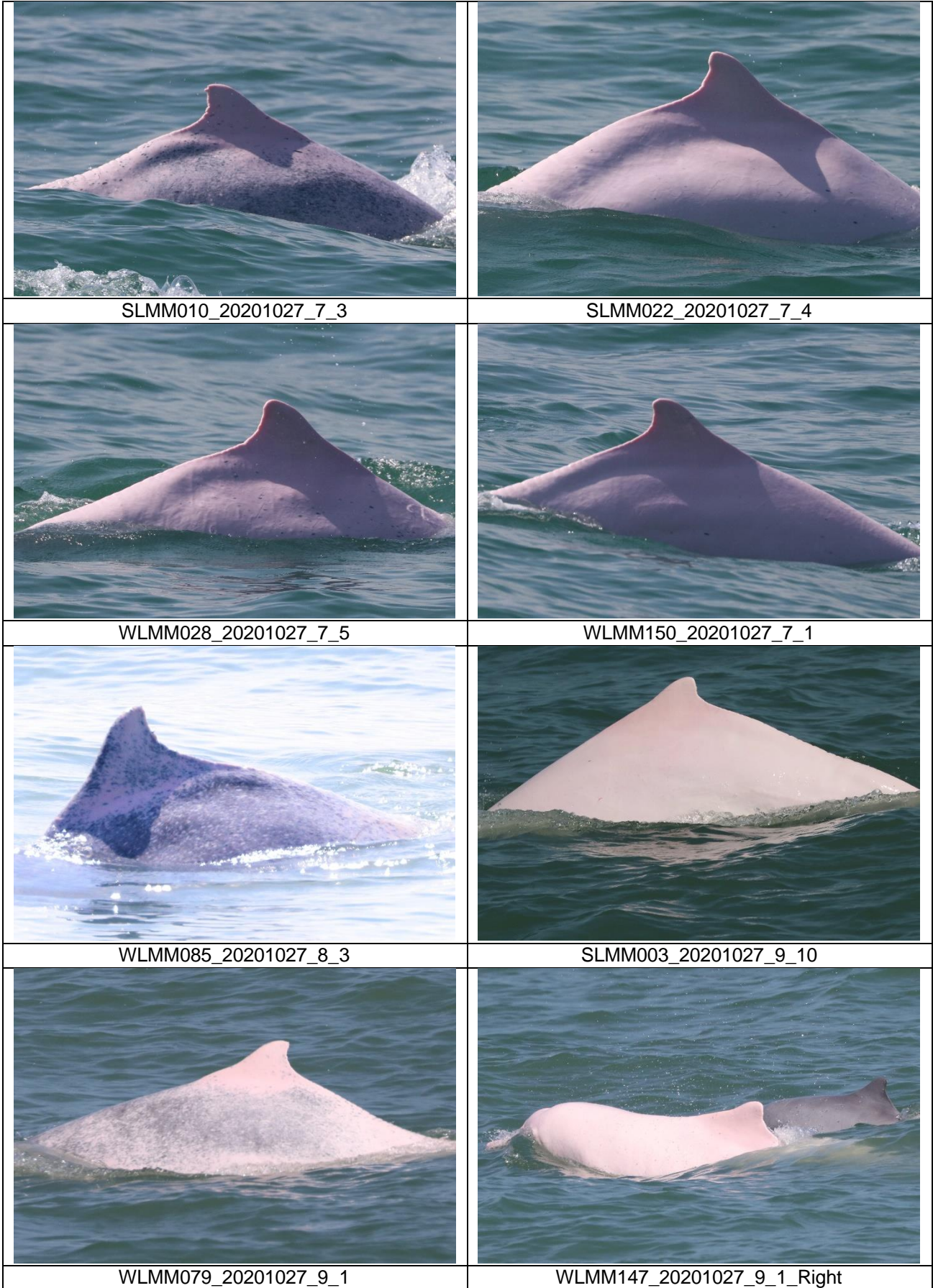


WLMM071\_20201027\_2\_1



	
WLMM158_20201027_3_1	WLMM076_20201027_4_9
	
WLMM131_20201027_4_1	SLMM007_20201027_6_2
	
SLMM049_20201027_6_1	SLMM052_20201027_6_1
	
WLMM007_20201027_6_2	WLMM056_20201027_6_6





**CWD Land-based Theodolite Tracking Survey****CWD Groups by Survey Date**

<b>Date</b>	<b>Station</b>	<b>Start Time</b>	<b>End Time</b>	<b>Duration</b>	<b>Beaufort Range</b>	<b>Visibility</b>	<b>No. of Focal Follow Dolphin Groups Tracked</b>	<b>Dolphin Group Size Range</b>
19/Oct/20	Lung Kwu Chau	9:03	15:03	6:00	2-3	3	1	1
27/Oct/20	Sha Chau	10:52	16:52	6:00	2	2-3	0	-

Visibility: 1=Excellent, 2=Good, 3=Fair, 4=Poor