

## **Appendix C. Monitoring Results**

## **Air Quality Monitoring Results**

**1-hour TSP Results**

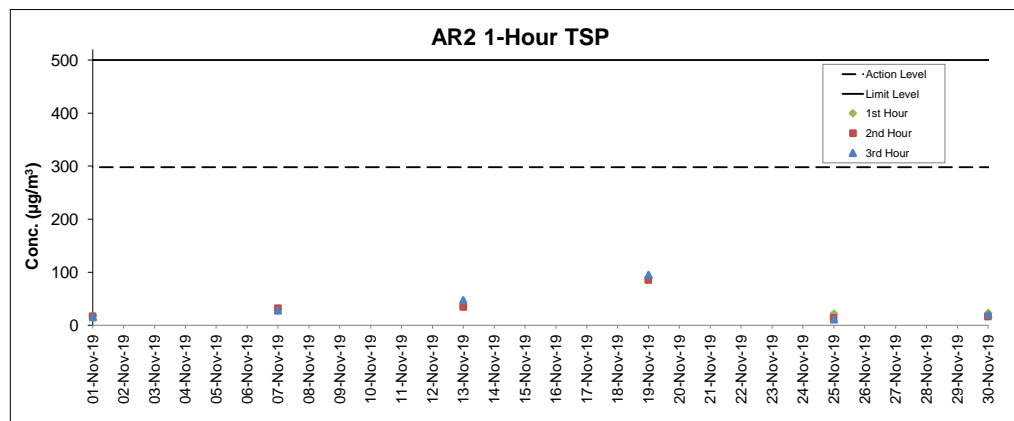
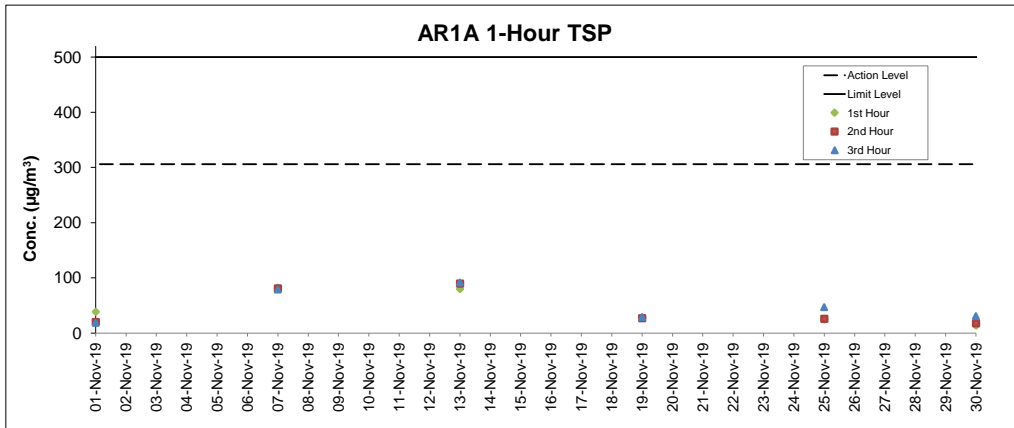
**Station: AR1A- Man Tung Road Park**

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 ( $\mu\text{g}/\text{m}^3$ )
01-Nov-19	13:23	Sunny	3.7	95	39	306	500
01-Nov-19	14:23	Sunny	3.6	346	20	306	500
01-Nov-19	15:23	Sunny	4.1	263	19	306	500
07-Nov-19	10:04	Sunny	5.3	32	82	306	500
07-Nov-19	11:04	Sunny	5.8	35	81	306	500
07-Nov-19	12:04	Sunny	6.8	51	79	306	500
13-Nov-19	13:00	Sunny	4.8	238	80	306	500
13-Nov-19	14:00	Sunny	3.9	262	90	306	500
13-Nov-19	15:00	Sunny	4.3	255	92	306	500
19-Nov-19	09:12	Sunny	4.6	353	28	306	500
19-Nov-19	10:12	Sunny	6.1	350	27	306	500
19-Nov-19	11:12	Sunny	5.1	347	29	306	500
25-Nov-19	13:33	Sunny	4.5	106	25	306	500
25-Nov-19	14:33	Sunny	3.3	109	26	306	500
25-Nov-19	15:33	Sunny	1.8	Variable	47	306	500
30-Nov-19	14:03	Sunny	3.5	353	14	306	500
30-Nov-19	15:03	Sunny	2.3	7	18	306	500
30-Nov-19	16:03	Sunny	3.4	106	31	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 ( $\mu\text{g}/\text{m}^3$ )
01-Nov-19	9:22	Cloudy	4.0	319	18	298	500
01-Nov-19	10:22	Cloudy	2.9	284	17	298	500
01-Nov-19	11:22	Cloudy	2.2	253	15	298	500
07-Nov-19	13:12	Sunny	6.2	45	30	298	500
07-Nov-19	14:12	Sunny	5.7	353	32	298	500
07-Nov-19	15:12	Sunny	6.3	349	28	298	500
13-Nov-19	13:05	Sunny	4.8	233	35	298	500
13-Nov-19	14:05	Sunny	4.0	259	34	298	500
13-Nov-19	15:05	Sunny	4.4	249	47	298	500
19-Nov-19	9:23	Cloudy	5.3	357	89	298	500
19-Nov-19	10:23	Cloudy	5.4	348	85	298	500
19-Nov-19	11:23	Cloudy	4.6	342	95	298	500
25-Nov-19	9:07	Sunny	2.5	41	22	298	500
25-Nov-19	10:07	Sunny	4.1	101	14	298	500
25-Nov-19	11:07	Sunny	4.9	108	11	298	500
30-Nov-19	10:00	Sunny	3.8	50	23	298	500
30-Nov-19	11:00	Sunny	3.2	36	16	298	500
30-Nov-19	12:00	Sunny	3.8	46	20	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>50</sub> dB(A)	L <sub>eq(30mins)</sub> dB(A)
01-Nov-19	Sunny	14:38	69.4	53.2	71
01-Nov-19	Sunny	14:43	70.7	53.7	
01-Nov-19	Sunny	14:48	71.0	54.2	
01-Nov-19	Sunny	14:53	70.9	53.1	
01-Nov-19	Sunny	14:58	76.9	58.6	
01-Nov-19	Sunny	15:03	63.4	57.1	72
07-Nov-19	Sunny	9:06	74.0	55.6	
07-Nov-19	Sunny	9:11	73.6	55.2	
07-Nov-19	Sunny	9:16	71.8	55.3	
07-Nov-19	Sunny	9:21	71.7	56.2	
07-Nov-19	Sunny	9:26	73.1	58.9	68
07-Nov-19	Sunny	9:31	73.5	58.4	
13-Nov-19	Sunny	16:29	68.9	53.7	
13-Nov-19	Sunny	16:34	67.9	51.2	
13-Nov-19	Sunny	16:39	69.3	50.5	
13-Nov-19	Sunny	16:44	68.1	52.5	72
13-Nov-19	Sunny	16:49	67.3	51.6	
13-Nov-19	Sunny	16:54	69.7	53.7	
19-Nov-19	Sunny	9:36	74.0	54.7	
19-Nov-19	Sunny	9:41	72.9	53.8	
19-Nov-19	Sunny	9:46	73.2	53.3	72
19-Nov-19	Sunny	9:51	72.1	52.6	
19-Nov-19	Sunny	9:56	72.2	53.3	
19-Nov-19	Sunny	10:01	72.8	53.9	
25-Nov-19	Sunny	15:54	72.1	54.6	
25-Nov-19	Sunny	15:59	73.7	55.4	72
25-Nov-19	Sunny	16:04	74.5	55.4	
25-Nov-19	Sunny	16:09	71.9	53.6	
25-Nov-19	Sunny	16:14	73.0	54.0	
25-Nov-19	Sunny	16:19	72.8	54.3	

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>50</sub> dB(A)	L <sub>eq(30mins)</sub> dB(A)
01-Nov-19	Cloudy	14:05	62.8	58.5	64
01-Nov-19	Cloudy	14:10	64.4	59.0	
01-Nov-19	Cloudy	14:15	63.9	59.1	
01-Nov-19	Cloudy	14:20	63.5	59.4	
01-Nov-19	Cloudy	14:25	62.8	58.5	
01-Nov-19	Cloudy	14:30	63.2	58.8	66
07-Nov-19	Sunny	11:00	64.7	59.2	
07-Nov-19	Sunny	11:05	63.6	59.4	
07-Nov-19	Sunny	11:10	64.0	59.7	
07-Nov-19	Sunny	11:15	66.5	59.7	
07-Nov-19	Sunny	11:20	64.8	60.2	62
07-Nov-19	Sunny	11:25	65.4	60.0	
13-Nov-19	Sunny	11:16	61.9	56.5	
13-Nov-19	Sunny	11:21	61.7	56.9	
13-Nov-19	Sunny	11:26	61.9	55.9	
13-Nov-19	Sunny	11:31	61.0	56.0	61
13-Nov-19	Sunny	11:36	60.0	56.1	
13-Nov-19	Sunny	11:41	61.3	56.7	
19-Nov-19	Cloudy	14:14	61.0	55.5	
19-Nov-19	Cloudy	14:19	60.8	55.1	
19-Nov-19	Cloudy	14:24	58.6	55.3	66
19-Nov-19	Cloudy	14:29	59.7	55.4	
19-Nov-19	Cloudy	14:34	59.0	55.0	
19-Nov-19	Cloudy	14:39	60.5	55.7	
25-Nov-19	Sunny	13:22	73.7	60.0	
25-Nov-19	Sunny	13:27	65.5	58.6	66
25-Nov-19	Sunny	13:32	64.2	58.7	
25-Nov-19	Sunny	13:37	66.3	60.3	
25-Nov-19	Sunny	13:42	67.9	61.2	
25-Nov-19	Sunny	13:47	68.3	61.2	

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

**Noise Measurement Results**

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

Date	Weather	Time	Measured	Measured	L <sub>eq(30mins)</sub> dB(A)
			L <sub>10</sub> dB(A)	L <sub>50</sub> dB(A)	
01-Nov-19	Cloudy	9:29	54.7	50.1	58
01-Nov-19	Cloudy	9:34	58.6	50.9	
01-Nov-19	Cloudy	9:39	58.1	52.2	
01-Nov-19	Cloudy	9:44	57.0	50.2	
01-Nov-19	Cloudy	9:49	58.4	50.8	
01-Nov-19	Cloudy	9:54	58.3	50.7	
07-Nov-19	Sunny	13:59	61.3	49.2	67
07-Nov-19	Sunny	14:04	67.0	51.8	
07-Nov-19	Sunny	14:09	65.8	48.7	
07-Nov-19	Sunny	14:14	72.3	53.0	
07-Nov-19	Sunny	14:19	64.5	50.2	
07-Nov-19	Sunny	14:24	67.9	51.3	
13-Nov-19	Sunny	13:23	50.0	43.6	53
13-Nov-19	Sunny	13:28	56.1	45.5	
13-Nov-19	Sunny	13:33	51.4	44.3	
13-Nov-19	Sunny	13:38	53.7	44.7	
13-Nov-19	Sunny	13:43	53.3	44.9	
13-Nov-19	Sunny	13:48	50.3	43.4	
19-Nov-19	Cloudy	9:25	59.9	50.0	58
19-Nov-19	Cloudy	9:30	57.6	50.3	
19-Nov-19	Cloudy	9:35	56.2	50.8	
19-Nov-19	Cloudy	9:40	57.5	51.2	
19-Nov-19	Cloudy	9:45	58.6	50.5	
19-Nov-19	Cloudy	9:50	56.1	51.4	
25-Nov-19	Sunny	10:09	55.7	47.5	61
25-Nov-19	Sunny	10:14	62.5	47.3	
25-Nov-19	Sunny	10:19	67.8	47.8	
25-Nov-19	Sunny	10:24	60.7	48.6	
25-Nov-19	Sunny	10:29	62.6	48.7	
25-Nov-19	Sunny	10:34	60.0	49.0	

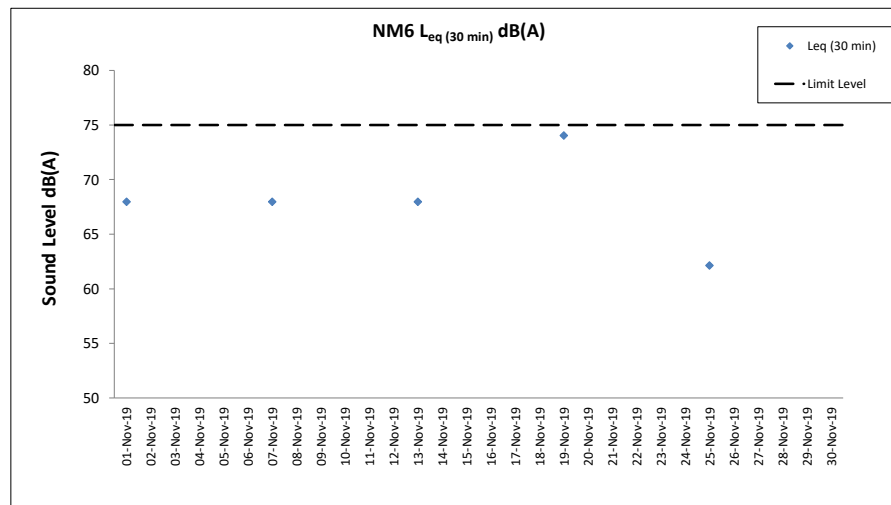
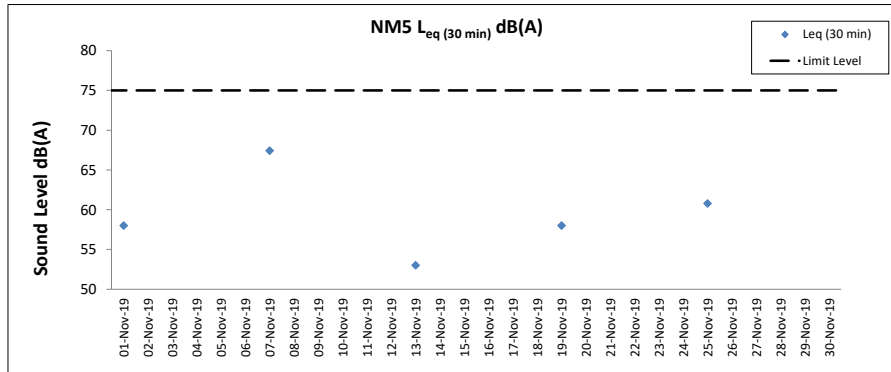
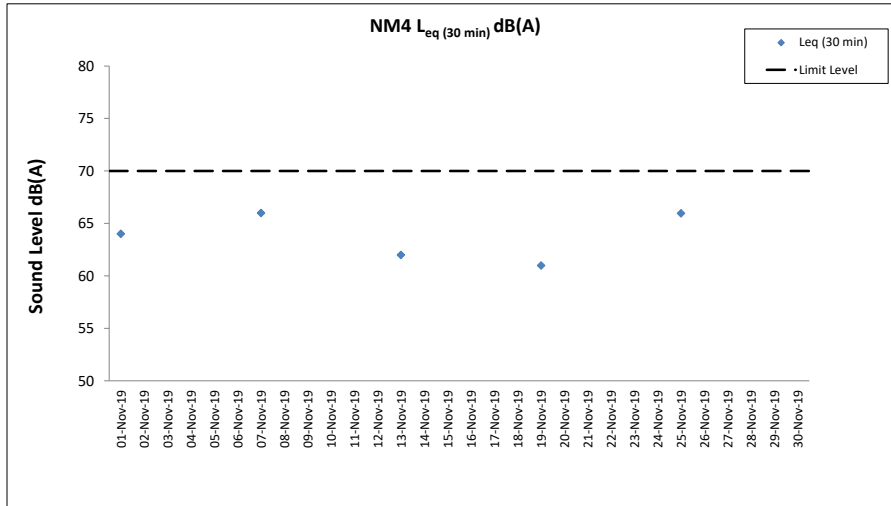
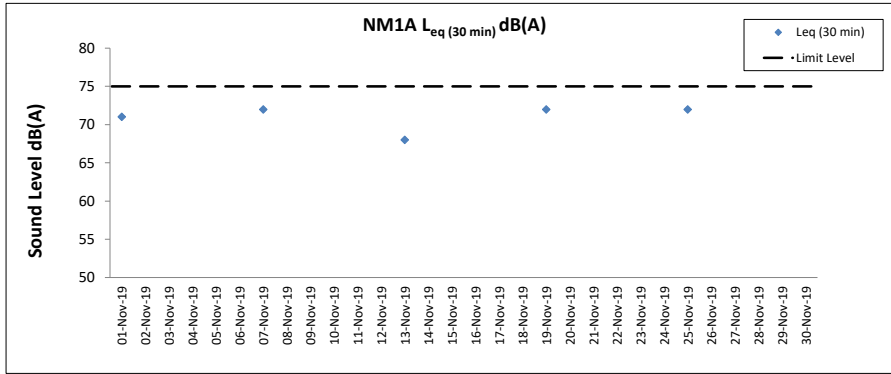
Remarks:  
+3dB (A) correction was applied to free-field measurement.

**Noise Measurement Results**

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

Date	Weather	Time	Measured	Measured	L <sub>eq(30mins)</sub> dB(A)
			L <sub>10</sub> dB(A)	L <sub>50</sub> dB(A)	
01-Nov-19	Cloudy	15:43	69.9	52.3	68
01-Nov-19	Cloudy	15:48	68.6	50.7	
01-Nov-19	Cloudy	15:53	73.3	49.4	
01-Nov-19	Cloudy	15:58	59.4	50.3	
01-Nov-19	Cloudy	16:03	77.2	51.2	
01-Nov-19	Cloudy	16:08	72.1	48.4	
07-Nov-19	Sunny	9:45	74.0	57.7	68
07-Nov-19	Sunny	9:50	68.5	55.6	
07-Nov-19	Sunny	9:55	72.9	53.8	
07-Nov-19	Sunny	10:00	70.1	51.2	
07-Nov-19	Sunny	10:05	69.0	50.9	
07-Nov-19	Sunny	10:10	73.0	53.0	
13-Nov-19	Sunny	15:45	72.6	54.3	68
13-Nov-19	Sunny	15:50	71.4	53.5	
13-Nov-19	Sunny	15:55	68.8	52.8	
13-Nov-19	Sunny	16:00	68.5	50.3	
13-Nov-19	Sunny	16:05	71.7	48.8	
13-Nov-19	Sunny	16:10	73.2	50.9	
19-Nov-19	Cloudy	15:42	65.2	58.3	74
19-Nov-19	Cloudy	15:47	76.7	59.6	
19-Nov-19	Cloudy	15:52	74.2	60.5	
19-Nov-19	Cloudy	15:57	77.3	59.0	
19-Nov-19	Cloudy	16:02	76.3	59.0	
19-Nov-19	Cloudy	16:07	79.6	59.5	
25-Nov-19	Sunny	15:51	69.1	55.1	62
25-Nov-19	Sunny	15:56	71.6	56.5	
25-Nov-19	Sunny	16:01	67.3	55.4	
25-Nov-19	Sunny	16:06	67.0	54.9	
25-Nov-19	Sunny	16:11	69.9	55.3	
25-Nov-19	Sunny	16:16	66.9	55.6	

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 02 November 19 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	Value	DA										
C1	Fine	Calm	16:08	9.1	Surface	1.0	0.1	197	26.7	26.7	7.9	7.9	31.5	31.5	92.8	92.8	6.2	6.1	5	84	89	815615	804230	<0.2	1.1	<0.2	1.0	89	815615	804230	<0.2	1.1													
						1.0	0.1	198	26.7	7.9	7.9	31.5	31.5	92.8	92.8	6.2	6.2	7	85	<0.2				1.1																					
						4.6	0.1	170	26.2	7.9	7.9	31.8	31.8	90.4	90.4	6.1	10.3	6	89	<0.2				1.0																					
					Middle	4.6	0.1	175	26.2	26.2	7.9	7.9	31.8	31.8	90.3	90.3	6.1	10.4	7	89				<0.2	1.0																				
						8.1	0.1	155	26.2	26.2	7.9	7.9	31.9	31.9	90.3	90.3	6.1	16.7	7	93				<0.2	0.9																				
						8.1	0.1	157	26.2	26.2	7.9	7.9	31.9	31.9	90.2	90.2	6.1	16.3	8	93				<0.2	0.9																				
					C2	Cloudy	Moderate	15:11	11.8	Surface	1.0	0.3	190	26.4	26.4	8.3	8.3	27.4	27.4	84.3				84.3	5.8						4.9	4	85	88	825700	806967	<0.2	1.9	<0.2	2.0	88	825700	806967	<0.2	1.9
											1.0	0.3	193	26.4	26.4	8.3	8.3	27.3	27.3	84.2				84.2	5.8						5.0	4	86				<0.2	2.1							
											5.9	0.2	189	26.4	26.4	8.3	8.3	29.3	29.3	83.2				83.2	5.7						6.5	4	89				<0.2	1.9							
Middle	5.9	0.2	205	26.4						26.4	8.3	8.3	29.3	29.3	83.2	83.2	5.7	6.7	4	88	<0.2	1.9																							
	10.8	0.2	212	26.4						26.4	8.3	8.3	29.6	29.6	83.6	83.6	5.7	8.5	6	91	<0.2	2.0																							
	10.8	0.2	214	26.4						26.4	8.3	8.3	29.6	29.6	83.8	83.8	5.7	8.5	5	90	<0.2	2.1																							
C3	Cloudy	Moderate	17:02	12.2						Surface	1.0	0.2	11	26.7	26.7	8.7	8.7	31.4	31.4	85.0	85.0	5.7	5.3	3	85	90	822103	817805	<0.2	0.8	<0.2	0.8	90				822103	817805						<0.2	0.8
											1.0	0.2	11	26.7	26.7	8.7	8.7	31.5	31.4	84.9	84.9	5.7	5.6	4	86				<0.2	0.7															
											6.1	0.2	34	26.6	26.6	8.7	8.7	31.6	31.6	84.8	84.8	5.7	10.0	4	90				<0.2	0.8															
					Middle	6.1	0.2	34	26.6	26.6	8.7	8.7	31.6	31.6	84.9	84.9	5.7	10.5	4	90	<0.2	0.8																							
						11.2	0.2	28	26.6	26.6	8.7	8.7	31.6	31.6	87.5	87.5	5.9	11.8	4	93	<0.2	0.8																							
						11.2	0.2	30	26.6	26.6	8.7	8.7	31.6	31.6	87.6	87.6	5.9	11.6	5	93	<0.2	0.8																							
					IM1	Fine	Moderate	15:54	5.4	Surface	1.0	0.1	119	27.0	27.0	7.9	7.9	31.3	31.3	94.5	94.5	6.3	5.9	4	86				89	817941				807150	<0.2	1.1			<0.2	1.0	89	817941	807150	<0.2	1.1
											1.0	0.1	120	27.0	27.0	7.9	7.9	31.3	31.3	94.5	94.5	6.3	5.9	5	87										<0.2	1.1									
											-	-	-	-	-	-	-	-	-	-	-	-	-	-	-										-	-								-	
Middle	-	-	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-																						
	4.4	0.2	150	26.4						26.4	7.9	7.9	31.9	31.9	92.8	92.8	6.3	5.3	6	92	<0.2	0.9																							
	4.4	0.2	142	26.4						26.4	7.9	7.9	31.9	31.9	92.8	92.8	6.3	5.3	6	92	<0.2	0.8																							
IM2	Fine	Moderate	15:49	7.8						Surface	1.0	0.1	215	26.6	26.6	7.9	7.9	31.1	31.1	92.1	92.1	6.2	7.0	7	85	89	818179	806148			<0.2	1.2	<0.2		1.0	89	818179	806148						<0.2	1.0
											1.0	0.1	221	26.6	26.6	7.9	7.9	31.1	31.1	92.1	92.1	6.2	7.0	6	86						<0.2	1.0													
											3.9	0.2	233	26.3	26.3	7.9	7.9	31.9	31.9	90.2	90.2	6.1	9.7	8	89						<0.2	0.9													
					Middle	3.9	0.2	224	26.3	26.3	7.9	7.9	31.9	31.9	90.2	90.2	6.1	9.6	9	90	<0.2	1.0																							
						6.8	0.2	222	26.3	26.3	7.9	7.9	32.2	32.2	90.4	90.4	6.1	9.4	9	93	<0.2	0.9																							
						6.8	0.2	210	26.3	26.3	7.9	7.9	32.2	32.2	90.4	90.4	6.1	9.3	8	93	<0.2	1.0																							
					IM3	Fine	Moderate	15:43	8.1	Surface	1.0	0.3	242	26.7	26.7	7.9	7.9	31.0	31.0	94.0	94.0	6.3	6.1	10	85				89	818804	805609	<0.2		1.0					<0.2	1.0	89	818804	805609	<0.2	1.0
											1.0	0.3	254	26.7	26.7	7.9	7.9	31.0	31.0	93.9	93.9	6.3	6.2	9	85							<0.2		1.0											
											4.1	0.2	236	26.2	26.2	7.9	7.9	31.3	31.3	89.9	89.9	6.1	8.7	10	88							<0.2		1.1											
Middle	4.1	0.2	232	26.2						26.2	7.9	7.9	31.3	31.3	89.9	89.9	6.1	8.6	11	89	<0.2	0.9																							
	7.1	0.3	234	26.2						26.2	7.9	7.9	31.7	31.7	90.0	90.0	6.1	11.5	11	94	<0.2	0.9																							
	7.1	0.3	237	26.2						26.2	7.9	7.9	31.7	31.7	90.0	90.0	6.1	11.5	10	93	<0.2	0.9																							
IM4	Fine	Moderate	15:36	8.4						Surface	1.0	0.2	231	26.4	26.4	7.9	7.9	30.8	30.8	91.0	91.0	6.2	7.9	13	84	89	819729	804598				<0.2	0.9	<0.2	1.0	89	819729	804598						<0.2	1.0
											1.0	0.2	234	26.4	26.4	7.9	7.9	30.8	30.8	91.0	91.0	6.2	8.0	12	84							<0.2	1.0												
											4.2	0.2	226	26.2	26.2	7.9	7.9	31.3	31.3	89.3	89.3	6.1	12.8	14	88							<0.2	1.1												
					Middle	4.2	0.2	211	26.2	26.2	7.9	7.9	31.3	31.3	89.3	89.3	6.1	12.9	13	89	<0.2	1.0																							
						7.4	0.3	254	26.2	26.2	7.9	7.9	31.6	31.6	89.2	89.2	6.0	13.6	11	93	<0.2	0.9																							
						7.4	0.4	235	26.2	26.2	7.9	7.9	31.6	31.6	89.2	89.2	6.0	13.6	11	93	<0.2	1.0																							
					IM5	Fine	Moderate	15:24	7.6	Surface	1.0	0.4	216	26.4	26.4	7.9	7.9	30.8	30.8	91.5	91.5	6.2	7.5	10	86				89	820757	804853	<0.2	1.1						<0.2	1.0	89	820757	804853	<0.2	1.0
											1.0	0.4	211	26.4	26.4	7.9	7.9	30.8	30.8	91.5	91.5	6.2	7.5	10	87							<0.2	1.0												
											3.8	0.3	218	26.2	26.2	7.9	7.9	31.2	31.2	89.2	89.2	6.1	13.4	11	89							<0.2	1.0												
Middle	3.8	0.3	214	26.2						26.2	7.9	7.9	31.2	31.2	89.2	89.2	6.1	13.5	11	90	<0.2	1.0																							
	6.6	0.2	225	26.2						26.2	7.9	7.9	31.6	31.6	89.4	89.4	6.1	15.2	12	90	<0.2	1.0																							
	6.6	0.3	226	26.2						26.2	7.9	7.9	31.6	31.6	89.5	89.5	6.1	15.2	12	91	<0.2	0.9																							
IM6	Fine	Moderate	15:16	8.0						Surface	1.0	0.4	214	26.7	26.7	7.9	7.9	30.7	30.7	91.5	91.5	6.2	6.2	7	83	89	821082	805834				<0.2	1.2	<0.2	1.1	89	821082	805834						<0.2	1.3
											1.0	0.4	215	26.7	26.7	7.9	7.9	30.7	30.7	91.5	91.5	6.2	6.3	8	85							<0.2	1.3												
											4.0	0.4	204	26.3	26.3	7.9	7.9	31.4	31.4	89.3	89.3	6.0	12.4	8	90							<0.2	1.1												
					Middle	4.0	0.4	207	26.3	26.3	7.9	7.9	31.4	31.4	89.3	89.3	6.0	12.1	9	91	<0.2	1.0																							
						7.0	0.3	198	26.2	26.2	7.9	7.9	31.6	31.6	89.8	89.8	6.1	15.6	8	92	<0.2	1.0																							
						7.0	0.3	196	26.2	26.2	7.9	7.9	31.6	31.6	89.8	89.8	6.1	15.7	9	93	<0.2	1.0																							
					IM7	Fine	Moderate	15:08	9.2	Surface	1.0	0.4	195	26.7	26.7	7.9	7.9	30.7	30.7	91.9	92.0	6.2	6.7	8	85				89	821335	806814	<0.2	1.2						<0.2	1.1	89	821335	806814	<0.2	1.2
											1.0	0.4	206	26.7	26.7	7.9	7.9	30.7	30.7	92.0	92.0	6.2	6.7	8	85							<0.2	1.2												
											4.6	0.3	196	26.2	26.2	7.9	7.9	31.4	31.4	89.7	89.7	6.1	12.0	9	88							<0.2	0.9												
Middle	4.6	0.3	184	26.2						26.2	7.9	7.9	31.4	31.4	89.7	89.7	6.1	12.1	10																										



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

Water Quality Monitoring

Water Quality Monitoring Results on 02 November 19 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	Moderate	11:18	6.3	Surface	1.0	0.3	43	26.6	26.6	8.0	8.0	31.4	31.4	92.9	92.9	6.3	6.2	7.1	12.2	8	86	89	815604	804235	<0.2	0.8	<0.2	0.8			
						1.0	0.3	46	26.6	26.6	8.0	8.0	31.4	31.4	92.9	92.9	6.3	6.2	7.1	12.2	9	86	89			<0.2	0.8	<0.2	0.8			
					Middle	3.2	0.3	51	26.2	26.2	8.0	8.0	31.8	31.8	89.3	89.3	6.0	6.0	11.6	12.2	7	90	91	815604	804235	<0.2	1.0	<0.2	1.0			
						3.2	0.3	51	26.2	26.2	8.0	8.0	31.8	31.8	89.3	89.3	6.0	6.0	11.7	12.2	9	89	91			<0.2	0.9	<0.2	0.7			
					Bottom	5.3	0.3	26	26.2	26.2	8.0	8.0	31.9	31.9	89.3	89.3	6.0	6.0	17.7	6.0	8	92	91	815604	804235	<0.2	0.7	<0.2	0.7	<0.2	0.7	
						5.3	0.3	26	26.2	26.2	8.0	8.0	31.9	31.9	89.2	89.2	6.0	6.0	17.7	6.0	7	93	91			<0.2	0.7	<0.2	0.7	<0.2	0.7	
C2	Cloudy	Moderate	12:06	12.3	Surface	1.0	0.4	19	26.5	26.5	8.3	8.3	26.0	26.0	85.0	85.0	5.9	5.8	4.7	8.5	5	85	88	825699	806948	<0.2	1.9	<0.2	2.0			
						1.0	0.4	20	26.5	26.4	8.3	8.3	26.0	29.4	84.9	83.3	5.9	5.8	4.8	8.5	5	86	88	825699	806948	<0.2	2.1	<0.2	2.0			
					Middle	6.2	0.2	23	26.4	26.4	8.3	8.3	29.4	29.4	83.3	83.3	5.7	5.7	6.6	9.4	6	88	89	825699	806948	<0.2	1.9	<0.2	1.9			
						6.2	0.2	24	26.4	26.4	8.3	8.3	29.4	29.8	83.2	83.5	5.7	5.7	6.7	9.4	6	89	89	825699	806948	<0.2	2.0	<0.2	2.0			
					Bottom	11.3	0.2	31	26.4	26.4	8.3	8.3	29.6	29.8	83.5	83.5	5.7	5.7	14.1	8	90	91	825699	806948	<0.2	1.8	<0.2	1.8				
						11.3	0.2	31	26.4	26.4	8.3	8.3	29.6	29.6	83.5	83.5	5.7	5.7	14.1	8	91	91	825699	806948	<0.2	1.8	<0.2	1.8				
C3	Cloudy	Moderate	10:25	11.5	Surface	1.0	0.2	221	26.4	26.4	8.3	8.3	30.7	30.7	86.7	86.7	5.9	5.9	8.3	9.4	9	85	89	822102	817812	<0.2	0.8	<0.2	0.7			
						1.0	0.2	231	26.4	26.4	8.3	8.3	30.7	30.8	86.6	86.1	5.9	5.8	9.0	9.4	9	85	89	822102	817812	<0.2	0.7	<0.2	0.8			
					Middle	5.8	0.4	260	26.4	26.4	8.3	8.3	30.8	30.8	86.1	86.1	5.8	5.8	9.1	12	12	13	89	89	822102	817812	<0.2	1.0	<0.2	1.0		
						5.8	0.4	265	26.4	26.4	8.3	8.3	30.8	30.9	86.1	86.3	5.8	5.8	9.1	11	11	13	89	89	822102	817812	<0.2	0.8	<0.2	0.8		
					Bottom	10.5	0.4	289	26.4	26.4	8.3	8.3	30.9	30.9	86.3	86.4	5.9	5.9	10.5	17	17	13	93	93	822102	817812	<0.2	0.9	<0.2	0.9		
						10.5	0.4	289	26.4	26.4	8.3	8.3	30.9	30.9	86.4	86.4	5.9	5.9	10.5	18	18	13	89	89	822102	817812	<0.2	1.1	<0.2	1.1		
IM1	Sunny	Moderate	11:32	5.3	Surface	1.0	0.3	330	26.6	26.6	8.0	8.0	31.7	31.7	94.8	94.8	6.4	6.4	5.6	5.8	5	88	91	817936	807152	<0.2	0.9	<0.2	1.0			
						1.0	0.3	331	26.6	26.6	8.0	8.0	31.7	31.7	94.8	94.8	6.4	6.4	5.6	5.8	6	87	91	817936	807152	<0.2	1.0	<0.2	1.0			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	91	817936	807152	<0.2	1.1	<0.2	1.1
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	91	817936	807152	<0.2	1.1	<0.2
					Bottom	4.3	0.3	342	26.4	26.4	8.0	8.0	32.0	32.0	92.5	92.5	6.2	6.2	5.9	6	93	94	91	817936	807152	<0.2	1.2	<0.2	1.1			
						4.3	0.3	344	26.4	26.4	8.0	8.0	32.0	32.0	92.5	92.5	6.2	6.2	5.9	6	94	94	94	91	817936	807152	<0.2	1.1	<0.2	1.1		
IM2	Sunny	Moderate	11:38	7.6	Surface	1.0	0.2	341	26.6	26.6	8.0	8.0	31.3	31.3	92.9	92.9	6.3	6.2	6.7	12.3	7	87	91	818143	806155	<0.2	0.9	<0.2	0.9			
						1.0	0.2	314	26.6	26.6	8.0	8.0	31.3	31.3	92.9	92.9	6.3	6.2	6.8	6	88	91	818143	806155	<0.2	0.9	<0.2	0.9				
					Middle	3.8	0.3	338	26.3	26.3	8.0	8.0	31.8	31.8	89.9	89.9	6.1	6.1	12.9	7	91	91	818143	806155	<0.2	0.9	<0.2	0.9				
						3.8	0.3	358	26.3	26.3	8.0	8.0	31.8	31.8	89.9	89.9	6.1	6.1	12.9	8	92	91	818143	806155	<0.2	1.0	<0.2	1.0				
					Bottom	6.6	0.2	341	26.3	26.3	8.0	8.0	32.1	32.1	89.6	89.6	6.0	6.0	17.2	8	93	93	91	818143	806155	<0.2	0.9	<0.2	0.9			
						6.6	0.2	344	26.3	26.3	8.0	8.0	32.1	32.1	89.6	89.6	6.0	6.0	17.3	8	93	93	93	91	818143	806155	<0.2	1.1	<0.2	1.1		
IM3	Sunny	Moderate	11:45	7.8	Surface	1.0	0.3	333	26.7	26.7	8.0	8.0	31.3	31.3	94.0	94.0	6.3	6.2	6.7	11.0	6	88	91	818766	805615	<0.2	1.0	<0.2	1.0			
						1.0	0.3	343	26.7	26.7	8.0	8.0	31.3	31.3	94.0	94.0	6.3	6.2	6.7	7	88	91	818766	805615	<0.2	1.0	<0.2	1.0				
					Middle	3.9	0.3	316	26.3	26.3	8.0	8.0	31.9	31.9	90.0	90.1	6.1	6.1	12.3	8	91	91	818766	805615	<0.2	0.9	<0.2	0.9				
						3.9	0.3	320	26.3	26.3	8.0	8.0	31.9	31.9	90.1	90.1	6.1	6.1	12.3	8	91	91	818766	805615	<0.2	0.9	<0.2	0.9				
					Bottom	6.8	0.2	327	26.3	26.3	8.0	8.0	32.1	32.1	89.7	89.7	6.0	6.1	14.1	9	94	94	91	818766	805615	<0.2	0.8	<0.2	0.8			
						6.8	0.2	343	26.3	26.3	8.0	8.0	32.1	32.1	89.7	89.7	6.1	6.1	14.1	8	94	94	94	91	818766	805615	<0.2	0.8	<0.2	0.8		
IM4	Sunny	Moderate	11:52	8.2	Surface	1.0	0.4	309	26.7	26.7	7.9	7.9	31.0	31.0	92.9	92.8	6.3	6.2	6.3	10.7	4	87	91	819711	804599	<0.2	1.2	<0.2	1.3			
						1.0	0.5	335	26.7	26.7	7.9	7.9	31.0	31.0	92.9	92.8	6.3	6.2	6.3	6	88	91	819711	804599	<0.2	1.1	<0.2	1.1				
					Middle	4.1	0.4	320	26.2	26.2	8.0	8.0	31.4	31.4	90.1	90.1	6.1	6.1	8.8	6	92	91	819711	804599	<0.2	1.0	<0.2	1.0				
						4.1	0.5	338	26.2	26.2	8.0	8.0	31.4	31.4	90.0	90.0	6.1	6.1	8.8	6	91	91	819711	804599	<0.2	1.1	<0.2	1.1				
					Bottom	7.2	0.3	315	26.2	26.2	8.0	8.0	31.8	31.8	89.9	90.0	6.1	6.1	16.9	7	93	93	91	819711	804599	<0.2	0.9	<0.2	0.9			
						7.2	0.3	324	26.2	26.2	8.0	8.0	31.8	31.8	90.0	90.0	6.1	6.1	16.9	6	94	94	94	91	819711	804599	<0.2	1.2	<0.2	1.2		
IM5	Sunny	Moderate	12:01	7.7	Surface	1.0	0.4	312	26.7	26.7	7.9	7.9	31.0	31.0	94.0	94.0	6.3	6.1	6.1	9.9	7	88	92	820725	804882	<0.2	1.2	<0.2	1.1			
						1.0	0.4	321	26.7	26.7	7.9	7.9	31.0	31.0	94.0	94.0	6.3	6.1	6.1	6	88	92	820725	804882	<0.2	1.1	<0.2	1.1				
					Middle	3.9	0.3	338	26.2	26.2	8.0	8.0	31.5	31.5	89.9	89.9	6.1	6.1	9.4	7	93	91	820725	804882	<0.2	1.2	<0.2	1.2				
						3.9	0.4	311	26.2	26.2	8.0	8.0	31.5	31.5	89.9	89.9	6.1	6.1	9.4	8	92	91	820725	804882	<0.2	1.3	<0.2	1.3				
					Bottom	6.7	0.3	335	26.2	26.2	8.0	8.0	31.8	31.8	90.0	90.0	6.1	6.1	14.2	8	94	94	92	820725	804882	<0.2						

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

Water Quality Monitoring Results on 02 November 19 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						
IM9	Cloudy	Moderate	11:33	7.5	Surface	1.0	0.1	272	26.4	26.4	8.3	8.3	28.5	28.5	89.9	89.9	6.2	6.2	5.1	6.4	6	6	86	87	822096	808801	<0.2	1.3	<0.2	1.3							
						1.0	0.1	292	26.4	8.3	8.3	28.5	28.5	89.9	89.9	6.2	6.2	5.1	6.4	5	6	84	87	86	87	822096	808801	<0.2	1.2	<0.2	1.2						
						3.8	0.2	289	26.3	8.4	8.4	29.3	29.3	93.0	94.9	6.4	6.4	6.4	6.4	6	6	86	87	86	87	822096	808801	<0.2	1.2	<0.2	1.2						
					Middle	3.8	0.2	291	26.3	8.4	8.4	29.4	29.3	96.8	94.9	6.6	6.6	6.5	6.5	6	6	88	87	88	87	822096	808801	<0.2	1.3	<0.2	1.3						
						6.5	0.2	284	26.2	8.4	8.4	29.6	29.6	97.9	98.0	6.7	6.7	7.9	7.9	6	6	90	87	90	87	822096	808801	<0.2	1.2	<0.2	1.2						
						6.5	0.2	291	26.1	8.4	8.4	29.6	29.6	98.1	98.0	6.7	6.7	8.0	8.0	5	5	89	87	89	87	822096	808801	<0.2	1.3	<0.2	1.3						
					IM10	Cloudy	Moderate	11:27	7.8	Surface	1.0	0.4	300	26.3	26.3	8.4	8.4	30.0	30.0	91.8	91.8	6.3	6.3	11.5	11.6	11	15	85	88	822395	809772	<0.2	1.1	<0.2	1.2		
											1.0	0.4	319	26.3	8.4	8.4	30.0	30.0	91.8	91.8	6.3	6.3	11.7	11.7	11	15	85	88	85	88	822395	809772	<0.2	1.2	<0.2	1.2	
											3.9	0.4	309	26.2	8.4	8.4	30.0	30.0	91.8	91.8	6.3	6.3	11.6	11.6	16	15	89	88	89	88	822395	809772	<0.2	1.2	<0.2	1.2	
Middle	3.9	0.4	318	26.2						8.4	8.4	30.0	30.0	91.8	91.8	6.3	6.3	11.6	11.6	17	15	87	88	87	88	822395	809772	<0.2	1.2	<0.2	1.2						
	6.8	0.3	297	26.2						8.4	8.4	30.0	30.0	92.5	92.6	6.3	6.3	11.5	11.5	17	15	91	88	91	88	822395	809772	<0.2	1.3	<0.2	1.3						
	6.8	0.3	316	26.2						8.4	8.4	30.0	30.0	92.6	92.6	6.3	6.3	11.5	11.5	17	15	90	88	90	88	822395	809772	<0.2	1.3	<0.2	1.3						
IM11	Cloudy	Moderate	11:17	7.6						Surface	1.0	0.4	304	26.5	26.5	8.3	8.3	29.7	29.8	90.5	90.6	6.2	6.2	3.8	8.1	3	4	86	89	822038	811437	<0.2	1.2	<0.2	1.1		
											1.0	0.5	329	26.5	8.3	8.3	29.8	29.8	90.6	90.6	6.2	6.2	4.0	4.0	3	4	85	89	85	89	822038	811437	<0.2	1.1	<0.2	1.1	
											3.8	0.4	301	26.3	8.3	8.3	30.2	30.2	91.1	91.2	6.2	6.2	7.7	7.7	4	4	88	89	88	89	822038	811437	<0.2	1.2	<0.2	1.2	
					Middle	3.8	0.4	319	26.3	8.3	8.3	30.2	30.2	91.2	91.2	6.2	6.2	7.8	7.8	3	4	89	89	89	89	822038	811437	<0.2	1.3	<0.2	1.3						
						6.6	0.3	290	26.2	8.3	8.3	30.4	30.4	92.2	92.3	6.3	6.3	12.6	12.6	5	4	93	89	93	89	822038	811437	<0.2	1.1	<0.2	1.1						
						6.6	0.3	301	26.2	8.3	8.3	30.4	30.4	92.3	92.3	6.3	6.3	12.7	12.7	4	4	91	89	91	89	822038	811437	<0.2	1.3	<0.2	1.3						
					IM12	Cloudy	Moderate	11:12	8.0	Surface	1.0	0.3	270	26.2	26.2	8.3	8.3	30.4	30.5	89.4	89.4	6.1	6.1	7.1	9.5	5	7	86	88	821461	812059	<0.2	1.1	<0.2	1.1		
											1.0	0.3	273	26.2	26.2	8.3	8.3	30.5	30.5	89.3	89.3	6.1	6.1	7.4	7.4	6	7	85	88	85	88	821461	812059	<0.2	1.1	<0.2	1.1
											4.0	0.4	277	26.2	26.2	8.3	8.3	30.6	30.6	88.8	88.8	6.0	6.0	9.3	9.3	7	7	89	88	89	88	821461	812059	<0.2	1.2	<0.2	1.2
Middle	4.0	0.5	296	26.2						26.2	8.3	8.3	30.6	30.6	88.8	88.8	6.0	6.0	9.4	9.4	7	7	87	88	87	88	821461	812059	<0.2	1.2	<0.2	1.2					
	7.0	0.3	279	26.2						26.2	8.3	8.3	30.6	30.6	89.1	89.2	6.1	6.1	11.7	11.7	9	7	90	88	90	88	821461	812059	<0.2	1.3	<0.2	1.3					
	7.0	0.3	288	26.2						26.2	8.3	8.3	30.6	30.6	89.2	89.2	6.1	6.1	11.9	11.9	10	7	91	88	91	88	821461	812059	<0.2	1.2	<0.2	1.2					
SR1A	Cloudy	Moderate	10:57	4.9						Surface	1.0	-	-	26.3	26.3	8.3	8.3	30.6	30.6	91.7	91.7	6.2	6.2	6.0	6.4	6	8	-	-	819974	812661	-	-	-	-		
											1.0	-	-	26.3	26.3	8.3	8.3	30.6	30.6	91.7	91.7	6.2	6.2	6.0	6.4	7	8	-	8	-	-	819974	812661	-	-	-	-
											2.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					Middle	2.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
						3.9	-	-	26.3	26.3	8.3	8.3	30.6	30.6	92.0	92.1	6.3	6.3	6.7	6.7	10	8	-	8	-	-	819974	812661	-	-	-	-					
						3.9	-	-	26.3	26.3	8.3	8.3	30.6	30.6	92.0	92.1	6.3	6.3	6.7	6.7	10	8	-	8	-	-	819974	812661	-	-	-	-					
					SR2	Cloudy	Moderate	10:44	4.8	Surface	1.0	0.2	351	26.3	26.3	8.3	8.3	30.2	30.3	90.1	90.1	6.1	6.1	5.7	9.9	5	7	86	88	821483	814156	<0.2	1.1	<0.2	1.1		
											1.0	0.2	323	26.2	26.2	8.3	8.3	30.3	30.3	90.1	90.1	6.1	6.1	5.8	5.8	5	7	86	88	86	88	821483	814156	<0.2	1.1	<0.2	1.1
											-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Middle	-	-	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
	3.8	0.2	346	26.2						26.2	8.3	8.3	30.5	30.5	91.2	91.3	6.2	6.2	14.0	14.0	9	7	90	88	90	88	821483	814156	<0.2	1.1	<0.2	1.1					
	3.8	0.2	351	26.2						26.2	8.3	8.3	30.5	30.5	91.4	91.3	6.2	6.2	14.0	14.0	10	7	89	88	89	88	821483	814156	<0.2	1.1	<0.2	1.1					
SR3	Cloudy	Moderate	11:45	8.5						Surface	1.0	0.3	201	26.5	26.5	8.3	8.3	27.5	27.5	87.0	87.0	6.0	6.0	4.2	5.5	5	6	-	-	822131	807580	-	-	-	-		
											1.0	0.3	205	26.5	26.5	8.3	8.3	27.5	27.5	86.9	86.9	6.0	6.0	4.3	4.3	6	6	-	6	-	-	822131	807580	-	-	-	-
											4.3	0.3	223	26.4	26.4	8.3	8.3	28.1	28.1	86.4	86.4	6.0	6.0	4.9	4.9	6	6	-	6	-	-	822131	807580	-	-	-	-
					Middle	4.3	0.3	234	26.4	26.4	8.3	8.3	28.1	28.1	86.4	86.4	6.0	6.0	5.1	5.1	5	6	-	6	-	-	822131	807580	-	-	-	-					
						7.5	0.2	221	26.3	26.3	8.3	8.3	28.5	28.5	88.1	88.2	6.1	6.1	7.2	7.2	6	6	-	6	-	-	822131	807580	-	-	-	-					
						7.5	0.2	230	26.3	26.3	8.3	8.3	28.5	28.5	88.2	88.2	6.1	6.1	7.3	7.3	6	6	-	6	-	-	822131	807580	-	-	-	-					
					SR4A	Sunny	Calm	10:59	9.5	Surface	1.0	0.2	237	26.4	26.4	8.0	8.0	31.6	31.6	89.9	89.9	6.1	6.1	5.8	7.1	7	7	-	-	817191	807832	-	-	-	-		
											1.0	0.2	252	26.4	26.4	8.0	8.0	31.6	31.6	89.9	89.9	6.1	6.1	5.9	5.9	6	7	-	7	-	-	817191	807832	-	-	-	-
											4.8	0.1	229	26.3	26.3	8.0	8.0	31.6	31.6	89.0	89.0	6.0	6.0	6.8	6.8	6	7	-	7	-	-	817191	807832	-	-	-	-
Middle	4.8	0.1	237	26.3						26.3	8.0	8.0	31.6	31.6	89.0	89.0	6.0	6.0	6.9	6.9	6	7	-	7	-	-	817191	807832	-	-	-	-					
	8.5	0.2	222	26.3						26.3	7.9	7.9	31.6	31.6	88.9	88.9	6.0	6.0	8.7	8.7	9	7	-	7	-	-	817191	807832	-	-	-	-					
	8.5	0.2	239	26.3						26.3	7.9	7.9	31.6	31.6	88.9	88.9	6.0	6.0	8.7	8.7	9	7	-	7	-	-	817191	807832	-	-	-	-					
SR5A	Sunny	Calm	10:44	5.5						Surface	1.0	0.1	312	26.3	26.3	8.0	8.0	31.6	31.6	90.1	90.2	6.1	6.1	7.4	7.3	8	9	-	-	816588	810690	-	-	-	-		
											1.0	0.1	339	26.3	26.3	8.0	8.0	31.6	31.6	90.2	90.2	6.1	6.1	7.5	7.5	9	9	-	9	-	-	816588	810690	-	-	-	-
											-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
						4.5	0.1	331	26.3	26.3																											



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

Water Quality Monitoring Results on 05 November 19 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			
IM9	Fine	Rough	07:20	7.9	Surface	1.0	0.2	135	25.7	25.7	8.2	8.2	30.2	30.2	91.9	91.9	6.3	6.3	3.2	3	83	87	822116	808804	<0.2	0.9	<0.2	1.0					
						1.0	0.3	142	25.7	8.2	8.2	30.2	30.2	91.9	91.9	6.3	6.3	3.3	3	83	87	822116	808804	<0.2	1.0	<0.2	1.0						
						4.0	0.2	110	25.7	8.2	8.2	30.2	30.2	92.1	92.2	6.3	6.3	2.8	3	86	87	822116	808804	<0.2	1.0	<0.2	1.0						
					Middle	4.0	0.2	120	25.7	8.2	8.2	30.3	30.2	92.2	92.2	6.3	6.3	2.8	3	86	87	822116	808804	<0.2	1.0	<0.2	1.0						
						6.9	0.2	118	25.7	8.2	8.2	30.3	30.3	92.9	93.0	6.4	6.4	3.7	5	90	91	822116	808804	<0.2	1.1	<0.2	0.9						
						6.9	0.2	121	25.7	8.2	8.2	30.3	30.3	93.1	93.1	6.4	6.4	3.8	4	91	91	822116	808804	<0.2	0.9	<0.2	1.0						
					IM10	Fine	Rough	07:13	8.0	Surface	1.0	0.5	121	25.8	25.8	8.2	8.2	30.2	30.2	92.5	92.5	6.4	6.4	6.9	3	83	87	822361	809813	<0.2	1.0	<0.2	1.0
											1.0	0.5	129	25.8	8.2	8.2	30.2	30.2	92.5	92.5	6.4	6.4	6.9	3	83	87	822361	809813	<0.2	1.0	<0.2	1.0	
											4.0	0.5	100	25.8	8.1	8.1	30.3	30.3	92.1	92.2	6.3	6.3	2.6	4	87	87	822361	809813	<0.2	0.9	<0.2	1.0	
Middle	4.0	0.5	109	25.8						8.1	8.1	30.3	30.3	92.2	92.2	6.3	6.3	2.6	3	87	87	822361	809813	<0.2	1.0	<0.2	1.0						
	7.0	0.3	98	25.8						8.2	8.2	30.5	30.5	92.1	92.2	6.3	6.3	4.1	3	91	91	822361	809813	<0.2	1.0	<0.2	1.0						
	7.0	0.3	98	25.8						8.2	8.2	30.5	30.5	92.2	92.2	6.3	6.3	4.1	4	91	91	822361	809813	<0.2	1.0	<0.2	1.0						
IM11	Fine	Rough	07:02	7.7						Surface	1.0	0.5	111	25.9	25.9	8.1	8.1	30.3	30.3	91.5	91.5	6.3	6.3	4.3	3	82	87	822069	811476	<0.2	1.1	<0.2	1.0
											1.0	0.6	112	25.9	8.1	8.1	30.3	30.3	91.5	91.5	6.3	6.3	4.3	3	82	87	822069	811476	<0.2	1.0	<0.2	1.0	
											3.9	0.5	104	25.9	8.1	8.1	30.3	30.3	91.9	91.9	6.3	6.3	4.7	4	87	87	822069	811476	<0.2	0.9	<0.2	1.0	
					Middle	3.9	0.5	112	25.9	8.1	8.1	30.3	30.3	91.9	91.9	6.3	6.3	4.7	3	87	87	822069	811476	<0.2	1.0	<0.2	1.0						
						6.7	0.3	114	25.8	8.1	8.1	30.3	30.3	93.5	93.7	6.4	6.4	4.7	2	90	90	822069	811476	<0.2	1.0	<0.2	1.0						
						6.7	0.4	120	25.8	8.1	8.1	30.3	30.3	93.8	93.8	6.4	6.4	4.7	4	90	90	822069	811476	<0.2	0.9	<0.2	1.0						
					IM12	Fine	Rough	06:56	7.5	Surface	1.0	0.5	117	25.8	25.8	8.1	8.1	30.1	30.1	92.5	92.4	6.4	6.4	2.8	5	82	87	821468	812067	<0.2	0.7	<0.2	0.9
											1.0	0.5	122	25.8	8.1	8.1	30.1	30.1	92.3	92.4	6.3	6.3	2.8	4	83	87	821468	812067	<0.2	0.9	<0.2	1.0	
											3.8	0.4	116	25.9	8.1	8.1	30.4	30.4	90.7	90.7	6.2	6.3	4.1	3	87	87	821468	812067	<0.2	1.0	<0.2	0.9	
Middle	3.8	0.4	126	25.9						8.1	8.1	30.4	30.4	90.7	90.7	6.2	6.3	4.1	4	87	87	821468	812067	<0.2	1.0	<0.2	1.0						
	6.5	0.2	94	25.9						8.1	8.1	30.6	30.6	91.3	91.3	6.2	6.3	6.5	3	91	91	821468	812067	<0.2	1.1	<0.2	1.1						
	6.5	0.2	102	25.9						8.1	8.1	30.6	30.6	91.3	91.3	6.3	6.3	6.5	3	91	91	821468	812067	<0.2	1.1	<0.2	1.1						
SR1A	Fine	Rough	06:36	5.2						Surface	1.0	-	-	25.7	25.8	8.0	8.0	30.0	30.0	90.8	90.8	6.3	6.3	4.2	5	-	-	819982	812653	-	-	-	-
											1.0	-	-	25.8	8.0	8.0	30.0	30.0	90.7	90.7	6.2	6.3	4.2	4	-	-	819982	812653	-	-	-	-	
											2.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	819982	812653	-	-
					Middle	2.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	819982	812653	-	-	-	-			
						4.2	-	-	25.8	8.0	8.0	30.1	30.1	91.8	92.0	6.3	6.3	4.0	4	-	-	819982	812653	-	-	-	-						
						4.2	-	-	25.8	8.0	8.0	30.1	30.1	92.2	92.2	6.3	6.3	4.1	4	-	-	819982	812653	-	-	-	-						
					SR2	Fine	Rough	06:22	4.8	Surface	1.0	0.3	88	25.8	25.8	8.1	8.1	30.1	30.1	91.8	91.8	6.3	6.3	3.0	5	87	87	821477	814180	<0.2	0.8	<0.2	0.7
											1.0	0.4	89	25.8	8.1	8.1	30.2	30.1	91.8	91.8	6.3	6.3	3.0	4	87	87	821477	814180	<0.2	0.7	<0.2	0.8	
											-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	821477	814180	<0.2	0.8
Middle	-	-	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	821477	814180	<0.2	0.8	<0.2	0.8			
	3.8	0.2	90	25.9						8.1	8.0	30.3	30.2	94.9	95.0	6.5	6.5	3.4	5	90	91	821477	814180	<0.2	0.8	<0.2	0.8						
	3.8	0.2	95	25.9						8.0	8.0	30.2	30.2	95.0	95.0	6.5	6.5	3.3	5	91	91	821477	814180	<0.2	0.8	<0.2	0.8						
SR3	Fine	Rough	07:31	8.3						Surface	1.0	0.4	186	25.8	25.8	8.2	8.2	30.2	30.2	89.6	89.6	6.2	6.2	3.2	3	-	-	822123	807553	-	-	-	-
											1.0	0.4	200	25.8	8.2	8.2	30.3	30.2	89.5	89.5	6.1	6.2	3.2	3	-	-	822123	807553	-	-	-	-	
											4.2	0.2	219	25.8	8.2	8.2	30.4	30.4	89.8	89.8	6.2	6.2	3.3	4	-	-	822123	807553	-	-	-	-	
					Middle	4.2	0.2	240	25.8	8.2	8.2	30.4	30.4	89.8	89.8	6.2	6.2	3.3	4	-	-	822123	807553	-	-	-	-						
						7.3	0.2	266	26.0	8.2	8.2	30.7	30.7	88.9	89.0	6.1	6.1	4.1	3	-	-	822123	807553	-	-	-	-						
						7.3	0.2	291	26.0	8.2	8.2	30.7	30.7	89.0	89.0	6.1	6.1	4.1	4	-	-	822123	807553	-	-	-	-						
					SR4A	Fine	Calm	06:07	9.2	Surface	1.0	0.1	43	25.6	25.6	8.1	8.1	31.8	31.8	90.7	90.7	6.2	6.2	2.8	4	-	-	817191	807803	-	-	-	-
											1.0	0.1	44	25.6	8.1	8.1	31.9	31.8	90.7	90.7	6.2	6.2	2.9	5	-	-	817191	807803	-	-	-	-	
											4.6	0.1	65	25.8	8.2	8.2	32.3	32.3	89.7	89.8	6.1	6.1	4.5	7	-	-	817191	807803	-	-	-	-	
Middle	4.6	0.1	70	25.8						8.2	8.2	32.3	32.3	89.8	89.8	6.1	6.1	4.5	8	-	-	817191	807803	-	-	-	-						
	8.2	0.1	71	26.2						8.1	8.1	33.5	33.5	93.2	93.4	6.2	6.3	6.7	10	-	-	817191	807803	-	-	-	-						
	8.2	0.1	74	26.2						8.1	8.1	33.5	33.5	93.6	93.6	6.3	6.3	6.5	8	-	-	817191	807803	-	-	-	-						
SR5A	Fine	Calm	05:54	3.7						Surface	1.0	0.0	44	25.5	25.5	8.3	8.3	31.1	31.1	94.8	94.9	6.5	6.5	2.0	9	-	-	816570	810693	-	-	-	-
											1.0	0.0	48	25.5	8.3	8.3	31.1	31.1	95.0	95.0	6.5	6.5	2.0	8	-	-	816570	810693	-	-	-	-	
											-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	816570	810693	-	-
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	816570	810693	-	-	-	-			
						2.7	0.1	118	25.5	8.3	8.3	31.2	31.2	95.6	95.7	6.6	6.6	2.0	9	-	-	816570	810693	-	-	-	-						
						2.7	0.1	127	25.5	8.3	8.3	31.2	31																				

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

Water Quality Monitoring Results on 05 November 19 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	Moderate	14:49	7.5	Surface	1.0	0.2	33	25.8	25.9	8.2	8.2	32.4	32.4	93.3	93.2	6.3	6.3	3.8	3.8	5	84	86	815608	804255	<0.2	0.8	0.8	0.9				
						1.0	0.2	34	25.9		8.2	32.4	32.4	93.0	93.0	6.3	6.3	3.8	3.8	6	84	86											
					Middle	3.8	0.1	49	26.1	26.1	8.1	8.1	33.1	33.0	92.9	93.0	6.3	6.3	4.9	5.4	6	86	86	86	815608	804255	<0.2	0.9	0.9	0.9	0.9		
						3.8	0.1	45	26.0		8.1	33.0	33.0	93.0	93.0	6.3	6.3	5.4	4	86	86												
					Bottom	6.5	0.1	31	26.1	26.1	8.1	8.1	33.0	33.0	93.6	93.6	6.3	6.3	8.4	8.4	8	87	87	87	815608	804255	<0.2	0.8	0.8	0.8	0.8		
						6.5	0.1	35	26.1		8.1	33.0	33.0	93.6	93.6	6.3	6.3	8.6	9	87	87												
C2	Fine	Rough	14:05	8.5	Surface	1.0	0.6	66	25.6	25.6	8.2	8.2	28.2	28.2	88.4	88.4	6.2	6.2	2.7	2.7	4	82	82	825671	806933	<0.2	1.0	1.0	1.0				
						1.0	0.7	57	25.6		8.2	28.2	28.2	88.3	88.3	6.2	6.2	2.8	5	83	83												
					Middle	4.3	0.3	64	25.7	25.7	8.2	8.2	29.2	29.2	86.2	86.2	6.0	6.0	2.3	2.3	3.2	5	87	87	86	825671	806933	<0.2	1.1	1.1	1.0	1.0	
						4.3	0.3	60	25.7		8.2	29.2	29.2	86.2	86.2	6.0	6.0	2.4	5	87	87												
					Bottom	7.5	0.2	60	26.1	26.1	8.2	8.2	30.4	30.4	84.4	84.4	5.8	5.8	4.5	4.5	6	90	90	90	825671	806933	<0.2	1.0	1.0	1.0	1.0		
						7.5	0.2	63	26.1		8.2	30.4	30.4	84.4	84.4	5.8	5.8	4.5	5	91	91												
C3	Fine	Rough	16:07	11.8	Surface	1.0	0.1	268	26.3	26.3	8.3	8.3	30.8	30.8	90.1	90.1	6.1	6.1	2.1	2.1	3	83	83	822128	817795	<0.2	1.0	1.0	1.0	1.0			
						1.0	0.1	281	26.3		8.3	30.8	30.8	90.1	90.1	6.1	6.1	2.1	3	83	83												
					Middle	5.9	0.2	243	26.2	26.2	8.3	8.3	30.9	30.9	88.4	88.4	6.0	6.0	2.0	2.0	2.6	2	87	87	86	822128	817795	<0.2	0.9	0.9	0.9	0.9	
						5.9	0.2	255	26.2		8.3	30.9	30.9	88.3	88.3	6.0	6.0	2.0	4	87	87												
					Bottom	10.8	0.1	229	26.2	26.2	8.3	8.3	31.3	31.3	85.9	86.0	5.8	5.8	3.5	3.5	6	91	91	91	822128	817795	<0.2	1.0	1.0	1.0	1.0		
						10.8	0.1	230	26.2		8.3	31.3	31.3	86.0	86.0	5.8	5.8	3.6	5	91	91												
IM1	Fine	Calm	14:38	4.7	Surface	1.0	0.1	68	26.0	26.0	8.1	8.1	32.8	32.8	92.5	92.6	6.2	6.2	2.9	2.9	6	84	84	817967	807155	<0.2	0.8	0.8	0.8	0.8			
						1.0	0.1	75	26.0		8.1	32.8	32.8	92.6	92.6	6.2	6.2	2.9	4	85	85												
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	86	817967	807155	<0.2	0.7	0.7	0.7	0.7
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
					Bottom	3.7	0.0	77	26.0	26.0	8.2	8.2	32.8	32.8	93.0	93.3	6.3	6.3	2.9	2.9	8	87	87	87	817967	807155	<0.2	0.8	0.8	0.8	0.8		
						3.7	0.0	81	26.0		8.2	32.8	32.8	93.6	93.6	6.3	6.3	2.9	7	88	88												
IM2	Fine	Moderate	14:34	6.7	Surface	1.0	0.2	48	25.9	25.9	8.2	8.2	32.5	32.5	92.7	92.7	6.3	6.3	2.9	2.9	5	84	84	818161	806189	<0.2	0.8	0.8	0.7	0.7			
						1.0	0.2	49	25.9		8.2	32.5	32.5	92.7	92.7	6.3	6.3	2.9	4	84	84												
					Middle	3.4	0.1	45	25.9	25.9	8.2	8.2	32.6	32.6	91.7	91.5	6.2	6.2	3.0	3.0	4.1	5	87	87	86	818161	806189	<0.2	0.7	0.7	0.7	0.7	
						3.4	0.1	46	25.9		8.2	32.6	32.6	91.3	91.3	6.2	6.2	3.1	6	87	87												
					Bottom	5.7	0.1	45	26.2	26.2	8.3	8.3	33.3	33.3	91.5	91.7	6.1	6.1	6.6	6.6	5	88	88	88	818161	806189	<0.2	0.8	0.8	0.8	0.8		
						5.7	0.1	46	26.2		8.3	33.3	33.3	91.8	91.8	6.2	6.2	6.2	6	87	87												
IM3	Fine	Moderate	14:27	7.1	Surface	1.0	0.2	21	25.9	25.9	8.1	8.1	32.1	32.1	92.3	92.3	6.3	6.3	3.7	3.7	7	85	85	818795	805590	<0.2	0.8	0.8	0.8	0.8			
						1.0	0.2	23	25.9		8.1	32.1	32.1	92.3	92.3	6.3	6.3	3.7	7	84	84												
					Middle	3.6	0.1	22	25.9	25.9	8.2	8.2	32.2	32.2	92.2	92.2	6.3	6.3	3.7	3.7	4.7	6	88	88	86	818795	805590	<0.2	0.8	0.8	0.8	0.8	
						3.6	0.1	23	25.9		8.2	32.2	32.2	92.2	92.2	6.3	6.3	3.7	7	87	87												
					Bottom	6.1	0.0	40	25.9	25.9	8.3	8.3	32.5	32.5	92.6	92.7	6.3	6.3	6.8	6.8	6	88	88	88	818795	805590	<0.2	0.8	0.8	0.8	0.8		
						6.1	0.0	44	25.9		8.3	32.5	32.5	92.8	92.8	6.3	6.3	6.7	7	88	88												
IM4	Fine	Moderate	14:19	7.2	Surface	1.0	0.8	46	25.7	25.7	8.0	8.0	31.1	31.1	94.1	94.1	6.4	6.4	6.9	6.9	11	85	85	819731	804629	<0.2	0.9	0.9	0.8	0.8			
						1.0	0.8	49	25.7		8.0	31.1	31.1	94.1	94.1	6.4	6.4	6.9	10	85	85												
					Middle	3.6	0.6	48	25.7	25.7	8.0	8.0	31.1	31.1	94.1	94.1	6.4	6.4	7.5	7.5	7.6	12	88	88	86	819731	804629	<0.2	0.8	0.8	0.8	0.8	
						3.6	0.6	47	25.7		8.0	31.1	31.1	94.1	94.1	6.4	6.4	7.7	11	88	88												
					Bottom	6.2	0.5	48	25.7	25.7	8.0	8.0	31.2	31.2	95.6	96.0	6.5	6.5	8.2	8.2	11	89	89	89	819731	804629	<0.2	0.7	0.7	0.7	0.7		
						6.2	0.5	49	25.7		8.0	31.2	31.2	96.3	96.3	6.6	6.6	8.3	11	89	89												
IM5	Fine	Moderate	14:13	7.1	Surface	1.0	0.7	23	25.8	25.8	8.0	8.0	31.3	31.3	91.9	91.9	6.3	6.3	5.1	5.1	9	84	84	820734	804847	<0.2	0.9	0.9	0.9	0.9			
						1.0	0.7	24	25.8		8.0	31.3	31.3	91.9	91.9	6.3	6.3	5.1	8	85	85												
					Middle	3.6	0.6	24	25.8	25.8	8.0	8.0	31.4	31.4	91.7	91.7	6.3	6.3	5.0	5.0	5.0	8	88	88	86	820734	804847	<0.2	0.9	0.9	0.9	0.9	
						3.6	0.7	25	25.8		8.0	31.4	31.4	91.7	91.7	6.3	6.3	5.1	8	88	88												
					Bottom	6.1	0.4	23	25.8	25.8	8.0	8.0	31.4	31.4	92.1	92.2	6.3	6.3	5.0	5.0	7	89	89	89	820734	804847	<0.2	0.9	0.9	0.9	0.9		
						6.1	0.4	24	25.8		8.0	31.4	31.4	92.2	92.2	6.3	6.3	5.0	8	90	90												
IM6	Fine	Moderate	14:07	7.0	Surface	1.0	0.5	26	25.8	25.8	7.9	7.9	31.2	31.2	90.7	90.7	6.2	6.2	4.7	4.7	9	84	84	821072	805821	<0							

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

Water Quality Monitoring Results on 05 November 19 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	Fine	Rough	14:36	7.9	Surface	1.0	0.3	318	25.9	25.9	8.1	8.1	30.4	30.4	93.5	93.5	6.4	6.4	2.3	5	83	87	822108	808807	<0.2	1.1	1.1	1.1					
						1.0	0.3	319	25.9	8.1	8.1	30.4	30.4	93.5	93.5	6.4	6.4	2.3	4	83	87	822108	808807	<0.2	1.1	1.1	1.1						
						4.0	0.2	296	26.0	8.1	8.1	30.3	30.3	92.7	92.7	6.3	6.3	2.7	6	86	87	822108	808807	<0.2	1.0	1.0	1.0						
					Middle	4.0	0.2	297	26.0	8.1	8.1	30.3	30.3	92.7	92.7	6.3	6.3	2.7	5	87	87	822108	808807	<0.2	1.0	1.0	1.0						
						6.9	0.1	315	25.9	8.1	8.1	30.4	30.4	93.4	93.5	6.4	6.4	2.9	7	90	87	822108	808807	<0.2	1.0	1.0	1.0						
						6.9	0.1	300	25.9	8.1	8.1	30.3	30.3	93.5	93.5	6.4	6.4	2.9	6	90	87	822108	808807	<0.2	1.0	1.0	1.0						
					IM10	Fine	Rough	14:45	8.1	Surface	1.0	0.4	283	26.1	26.1	8.2	8.2	30.3	30.3	92.9	92.9	6.3	6.3	2.0	5	83	87	822404	809806	<0.2	1.1	1.1	1.1
											1.0	0.4	294	26.1	8.2	8.2	30.3	30.3	92.9	92.9	6.3	6.3	2.0	4	83	87	822404	809806	<0.2	1.0	1.0	1.0	
											4.1	0.3	286	26.0	8.1	8.1	30.3	30.3	93.0	93.0	6.4	6.4	2.1	4	87	87	822404	809806	<0.2	1.0	1.0	1.0	
Middle	4.1	0.4	288	26.0						8.1	8.1	30.3	30.3	93.0	93.0	6.4	6.4	2.1	3	87	87	822404	809806	<0.2	1.1	1.1	1.1						
	7.1	0.2	271	25.9						8.1	8.1	30.4	30.4	92.4	92.4	6.3	6.3	2.9	3	90	87	822404	809806	<0.2	1.1	1.1	1.1						
	7.1	0.2	281	25.8						8.1	8.1	30.4	30.4	92.4	92.4	6.3	6.3	2.9	3	91	87	822404	809806	<0.2	1.1	1.1	1.1						
IM11	Fine	Rough	14:56	7.8						Surface	1.0	0.4	281	26.1	26.1	8.3	8.3	30.3	30.3	93.4	93.4	6.4	6.4	2.9	5	82	87	822041	811453	<0.2	1.0	1.0	1.0
											1.0	0.5	282	26.1	8.3	8.3	30.3	30.3	93.4	93.4	6.4	6.4	2.9	6	82	87	822041	811453	<0.2	1.0	1.0	1.0	
											3.9	0.3	275	26.1	8.2	8.2	30.3	30.3	95.1	95.1	6.5	6.5	2.0	8	87	87	822041	811453	<0.2	1.0	1.0	1.0	
					Middle	3.9	0.3	273	26.1	8.2	8.2	30.3	30.3	95.1	95.1	6.5	6.5	2.0	8	87	87	822041	811453	<0.2	1.0	1.0	1.0						
						6.8	0.2	284	26.0	8.2	8.2	30.3	30.3	96.6	96.7	6.6	6.6	2.0	8	90	87	822041	811453	<0.2	1.0	1.0	1.0						
						6.8	0.2	287	26.0	8.2	8.2	30.3	30.3	96.8	96.8	6.6	6.6	2.0	7	90	87	822041	811453	<0.2	1.1	1.1	1.1						
					IM12	Fine	Rough	15:02	7.7	Surface	1.0	0.3	272	26.1	26.1	8.3	8.3	30.3	30.3	93.6	93.7	6.4	6.4	2.4	2	87	88	821445	812053	<0.2	1.0	1.0	1.0
											1.0	0.3	277	26.1	8.3	8.3	30.3	30.3	93.7	93.7	6.4	6.4	2.4	4	87	88	821445	812053	<0.2	1.1	1.1	1.1	
											3.9	0.2	267	25.9	8.3	8.3	30.3	30.3	93.1	93.2	6.4	6.4	3.0	3	88	88	821445	812053	<0.2	0.9	0.9	1.0	
Middle	3.9	0.2	275	25.9						8.3	8.3	30.3	30.3	93.2	93.2	6.4	6.4	3.0	3	88	88	821445	812053	<0.2	1.1	1.1	1.1						
	6.7	0.2	292	25.9						8.2	8.2	30.3	30.3	93.4	93.5	6.4	6.4	3.3	5	90	87	821445	812053	<0.2	1.0	1.0	1.0						
	6.7	0.2	277	25.9						8.2	8.2	30.3	30.3	93.5	93.5	6.4	6.4	3.3	4	90	87	821445	812053	<0.2	1.0	1.0	1.0						
SR1A	Fine	Rough	15:31	5.5						Surface	1.0	-	-	26.1	26.1	8.3	8.3	30.3	30.3	93.1	93.1	6.4	6.4	2.4	6	-	-	819975	812656	-	-	-	-
											1.0	-	-	26.1	26.1	8.3	8.3	30.3	30.3	93.1	93.1	6.4	6.4	2.4	6	-	-	819975	812656	-	-	-	-
											2.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	819975	812656	-	-
					Middle	2.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	819975	812656	-	-	-	-			
						4.5	-	-	26.1	26.1	8.3	8.3	30.4	30.4	93.0	93.1	6.4	6.4	2.7	8	-	-	-	-	819975	812656	-	-	-	-			
						4.5	-	-	26.1	26.1	8.3	8.3	30.4	30.4	93.1	93.1	6.4	6.4	2.8	7	-	-	-	-	819975	812656	-	-	-	-			
					SR2	Fine	Rough	15:43	4.2	Surface	1.0	0.2	278	26.1	26.1	8.3	8.3	30.3	30.3	93.1	93.1	6.4	6.4	2.3	5	82	85	821478	814188	<0.2	1.0	1.0	1.1
											1.0	0.2	278	26.1	8.3	8.3	30.3	30.3	93.0	93.1	6.4	6.4	2.3	4	82	85	821478	814188	<0.2	1.1	1.1	1.1	
											-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	821478	814188	<0.2	1.0
Middle	-	-	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	821478	814188	<0.2	1.0	1.0	1.1			
	3.2	0.1	260	26.1						8.3	8.3	30.4	30.4	90.2	90.3	6.2	6.2	3.4	5	87	87	821478	814188	<0.2	1.0	1.0	1.1						
	3.2	0.1	263	26.1						8.3	8.3	30.4	30.4	90.3	90.3	6.2	6.2	3.4	5	87	87	821478	814188	<0.2	1.1	1.1	1.1						
SR3	Fine	Rough	14:23	8.2						Surface	1.0	0.6	17	26.2	26.2	8.3	8.3	29.8	29.8	91.5	91.5	6.3	6.3	6.8	4	-	-	822165	807547	-	-	-	-
											1.0	0.6	16	26.2	26.2	8.3	8.3	29.8	29.8	91.4	91.4	6.3	6.3	6.8	4	-	-	822165	807547	-	-	-	-
											4.1	0.3	20	26.0	26.0	8.3	8.3	30.4	30.4	90.5	90.6	6.2	6.2	2.9	3	-	-	822165	807547	-	-	-	-
					Middle	4.1	0.3	21	26.0	26.0	8.3	8.3	30.4	30.4	90.6	90.6	6.2	6.2	3.0	3	-	-	822165	807547	-	-	-	-					
						7.2	0.2	24	26.0	26.0	8.3	8.3	30.5	30.5	91.9	92.0	6.3	6.3	3.2	3	-	-	822165	807547	-	-	-	-					
						7.2	0.2	25	26.0	26.0	8.3	8.3	30.5	30.5	92.0	92.0	6.3	6.3	3.2	3	-	-	822165	807547	-	-	-	-					
					SR4A	Fine	Calm	15:02	8.2	Surface	1.0	0.6	244	25.9	25.9	8.1	8.1	31.3	31.4	92.8	92.8	6.3	6.3	3.2	5	-	-	817171	807798	-	-	-	-
											1.0	0.6	267	25.9	25.9	8.1	8.1	31.4	31.4	92.7	92.8	6.3	6.3	3.3	6	-	-	817171	807798	-	-	-	-
											4.1	0.4	248	25.8	25.9	8.1	8.1	31.7	31.7	91.8	91.8	6.2	6.2	4.0	4	-	-	817171	807798	-	-	-	-
Middle	4.1	0.4	262	25.9						25.9	8.1	8.1	31.8	31.7	91.7	91.8	6.2	6.2	4.1	4	-	-	817171	807798	-	-	-	-					
	7.2	0.4	272	25.9						25.9	8.2	8.2	32.1	32.0	92.4	92.6	6.3	6.3	4.6	3	-	-	817171	807798	-	-	-	-					
	7.2	0.4	274	25.9						25.9	8.2	8.2	31.9	32.0	92.8	92.6	6.3	6.3	4.4	4	-	-	817171	807798	-	-	-	-					
SR5A	Fine	Calm	15:19	3.5						Surface	1.0	0.3	331	25.9	25.9	8.1	8.1	31.2	31.2	97.5	97.5	6.6	6.6	4.6	7	-	-	816596	810682	-	-	-	-
											1.0	0.3	343	25.9	25.9	8.1	8.1	31.2	31.2	97.5	97.5	6.6	6.6	4.6	6	-	-	816596	810682	-	-	-	-
											-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	816596	810682	-	-
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	816596	810682	-	-	-	-			
						2.5	0.2	337	25.9	25.9	8.1	8.1	31.2	31.2	97.9	98.1	6.7	6.7	4.6	7													



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

Water Quality Monitoring Results on 07 November 19 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	09:42	7.6	Surface	1.0	0.5	234	25.8	25.8	8.2	8.2	33.3	33.3	98.0	98.0	6.6	6.6	3.0	4	4	88	90	90	815596	804257	<0.2	0.9	<0.2	0.9								
						1.0	0.5	250	25.8	8.2	8.2	33.3	33.3	98.0	98.0	6.6	6.6	3.1	4	4	87	90	<0.2				0.9											
						3.8	0.5	246	25.8	8.1	8.1	33.3	33.3	97.6	97.6	6.6	6.6	7.9	5	5	90	90	<0.2				0.8											
					Middle	3.8	0.5	263	25.8	25.8	8.1	8.1	33.3	33.3	97.6	97.6	6.6	6.6	8.2	6	6	89	90				<0.2	0.9										
						6.6	0.3	239	25.8	25.8	8.0	8.0	33.3	33.3	97.4	97.4	6.6	6.6	11.1	6	6	93	90				<0.2	0.7										
						6.6	0.4	241	25.8	25.8	8.0	8.0	33.3	33.3	97.5	97.5	6.6	6.6	10.9	5	5	92	90				<0.2	0.9										
					C2	Cloudy	Moderate	10:35	10.4	Surface	1.0	0.8	165	26.0	26.0	8.2	8.2	31.9	31.9	94.6	94.6	6.4	6.4				1.0	3	3	89	91	91	825661	806959	<0.2	1.9	<0.2	1.7
											1.0	0.8	172	26.0	26.0	8.2	8.2	31.9	31.9	94.6	94.6	6.4	6.4				1.0	4	4	90	91				<0.2	1.7		
											5.2	0.7	169	26.0	26.0	8.2	8.2	31.8	31.8	93.7	93.6	6.4	6.4				1.2	4	4	90	91				<0.2	1.7		
Middle	5.2	0.7	183	26.0						26.0	8.2	8.2	31.8	31.8	93.5	93.5	6.3	6.3	1.3	5	5	91	91	<0.2	1.8													
	9.4	0.3	170	26.0						26.0	8.2	8.2	32.3	32.3	92.1	92.2	6.2	6.2	4.4	4	4	91	91	<0.2	1.6													
	9.4	0.4	172	26.0						26.0	8.2	8.2	32.3	32.3	92.3	92.3	6.2	6.2	4.4	4	4	92	91	<0.2	1.6													
C3	Cloudy	Moderate	08:30	11.2						Surface	1.0	0.4	88	25.8	25.8	8.2	8.2	32.7	32.7	91.7	91.7	6.2	6.2	2.1	5	5	88	90	90	822100	817786				<0.2	1.2	<0.2	1.1
											1.0	0.4	94	25.8	25.8	8.2	8.2	32.7	32.7	91.6	91.6	6.2	6.2	2.1	5	5	89	90							<0.2	1.1		
											5.6	0.3	90	25.9	25.9	8.2	8.2	32.7	32.7	90.6	90.6	6.1	6.1	2.9	4	4	89	90							<0.2	1.1		
					Middle	5.6	0.3	90	25.9	25.9	8.2	8.2	32.7	32.7	90.5	90.5	6.1	6.1	3.0	5	5	90	91	<0.2	1.1													
						10.2	0.3	94	26.0	26.0	8.2	8.2	32.8	32.8	92.2	92.3	6.2	6.2	4.7	4	4	91	91	<0.2	1.0													
						10.2	0.3	101	26.0	26.0	8.2	8.2	32.8	32.8	92.4	92.4	6.2	6.2	4.6	4	4	91	91	<0.2	1.0													
					IM1	Cloudy	Moderate	09:54	4.7	Surface	1.0	0.1	211	25.9	25.9	8.2	8.2	33.2	33.2	97.8	97.8	6.6	6.6	1.9	5	5	88	90				90	817951	807112	<0.2	0.9	<0.2	0.8
											1.0	0.1	220	25.9	25.9	8.2	8.2	33.2	33.2	97.8	97.8	6.6	6.6	1.9	4	4	88	90							<0.2	0.8		
											-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							-	-	-	-
Middle	-	-	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-		
	3.7	0.1	254	25.9						25.9	8.1	8.1	33.2	33.2	98.2	98.2	6.6	6.6	2.0	4	4	91	91	<0.2	0.9													
	3.7	0.1	266	25.9						25.9	8.1	8.1	33.2	33.2	98.2	98.2	6.6	6.6	2.0	5	5	91	91	<0.2	0.8													
IM2	Cloudy	Moderate	10:00	7.6						Surface	1.0	0.2	165	25.8	25.8	8.2	8.2	33.1	33.1	96.6	96.7	6.5	6.5	2.1	3	3	87	89	89	818182	806153				<0.2	0.8	<0.2	0.9
											1.0	0.2	172	25.8	25.8	8.2	8.2	33.1	33.1	96.7	96.7	6.5	6.5	2.1	3	3	86	88							<0.2	0.9		
											3.8	0.2	176	25.8	25.8	8.2	8.2	33.1	33.1	95.5	95.5	6.5	6.5	5.4	4	4	88	89							<0.2	0.9		
					Middle	3.8	0.2	188	25.8	25.8	8.2	8.2	33.1	33.1	95.5	95.5	6.5	6.5	5.6	3	3	88	88	<0.2	0.8													
						6.6	0.2	162	25.9	25.9	8.1	8.1	33.3	33.3	95.2	95.3	6.4	6.4	10.1	4	4	91	91	<0.2	0.8													
						6.6	0.2	167	25.9	25.9	8.1	8.1	33.3	33.3	95.3	95.3	6.4	6.4	9.8	4	4	91	91	<0.2	0.9													
					IM3	Cloudy	Moderate	10:06	7.3	Surface	1.0	0.3	143	25.7	25.7	8.2	8.2	32.8	32.8	95.8	95.8	6.5	6.5	4.9	5	5	87	89				89	818802	805600	<0.2	0.9	<0.2	0.8
											1.0	0.3	150	25.7	25.7	8.2	8.2	32.8	32.8	95.8	95.8	6.5	6.5	5.0	4	4	87	88							<0.2	0.8		
											3.7	0.1	165	25.8	25.8	8.2	8.2	33.1	33.1	95.0	95.0	6.4	6.4	10.0	6	6	89	89							<0.2	0.7		
Middle	3.7	0.1	166	25.8						25.8	8.2	8.2	33.1	33.1	95.0	95.0	6.4	6.4	10.2	5	5	89	89	<0.2	0.8													
	6.3	0.1	199	25.8						25.8	8.1	8.1	33.1	33.1	94.9	94.9	6.4	6.4	8.4	4	4	91	91	<0.2	0.8													
	6.3	0.1	203	25.8						25.8	8.1	8.1	33.1	33.1	94.9	94.9	6.4	6.4	8.4	6	6	91	91	<0.2	0.8													
IM4	Cloudy	Moderate	10:16	8.0						Surface	1.0	0.9	174	25.7	25.7	8.2	8.2	32.4	32.4	96.1	96.2	6.5	6.5	2.5	3	3	87	89	89	819728	804613				<0.2	0.8	<0.2	0.9
											1.0	0.9	182	25.7	25.7	8.2	8.2	32.4	32.4	96.2	96.2	6.5	6.5	2.5	3	3	87	88							<0.2	0.9		
											4.0	0.8	173	25.7	25.7	8.2	8.2	32.7	32.7	95.7	95.7	6.5	6.5	3.3	3	3	89	89							<0.2	0.8		
					Middle	4.0	0.8	187	25.7	25.7	8.2	8.2	32.7	32.7	95.7	95.7	6.5	6.5	3.3	4	4	89	91	<0.2	0.8													
						7.0	0.6	165	25.8	25.8	8.2	8.2	32.9	32.9	95.4	95.4	6.5	6.5	4.3	4	4	91	91	<0.2	0.8													
						7.0	0.6	167	25.8	25.8	8.2	8.2	32.9	32.9	95.4	95.4	6.5	6.5	4.3	4	4	92	91	<0.2	1.0													
					IM5	Cloudy	Moderate	10:26	7.8	Surface	1.0	0.8	198	25.8	25.8	8.2	8.2	32.4	32.4	95.8	95.8	6.5	6.5	2.2	3	3	86	88				89	820723	804866	<0.2	1.2	<0.2	1.4
											1.0	0.9	207	25.8	25.8	8.2	8.2	32.4	32.4	95.7	95.7	6.5	6.5	2.2	2	2	87	88							<0.2	1.4		
											3.9	0.6	203	25.9	25.9	8.2	8.2	32.9	32.9	94.9	94.9	6.4	6.4	2.9	4	4	89	88							<0.2	1.7		
Middle	3.9	0.7	208	25.9						25.9	8.2	8.2	32.9	32.9	94.9	94.9	6.4	6.4	2.9	3	3	88	88	<0.2	1.5													
	6.8	0.6	211	25.9						25.9	8.1	8.1	33.0	33.0	95.2	95.2	6.4	6.4	3.9	3	3	91	91	<0.2	1.5													
	6.8	0.6	227	25.9						25.9	8.1	8.1	33.0	33.0	95.2	95.2	6.4	6.4	3.9	3	3	91	91	<0.2	1.3													
IM6	Cloudy	Moderate	10:35	7.5						Surface	1.0	0.6	223	25.8	25.8	8.2	8.2	32.4	32.4	95.8	95.8	6.5	6.5	2.0	3	3	86	88	88	821070	805850				<0.2	1.8	<0.2	1.7
											1.0	0.6	245	25.8	25.8	8.2	8.2	32.4	32.4	95.7	95.7	6.5	6.5	2.0	3	3	86	88							<0.2	1.7		
											3.8	0.5	227	25.9	25.9	8.2	8.2	33.0	33.0	94.7	94.7	6.4	6.4	3.0	3	3	89	88							<0.2	1.3		
					Middle	3.8	0.5	242	25.9	25.9	8.2	8.2	33.0	33.0	94.7	94.7	6.4	6.4	3.0	2	2	88	88	<0.2	1.3													
						6.5	0.4	216	25.9	25.9	8.2	8.2	33.0	33.0	94.6	94.6	6.4	6.4	3.7	3	3	90	90	<0.2	1.4													
						6.5	0.5	231	25.9	25.9	8.2	8.2	33.0	33.0	94.6	94.6	6.4	6.4	3.7	2	2	90	90	<0.2	1.4													
					IM7	Cloudy	Moderate	10:44	7.9	Surface	1.0	0.4	221	25.8	25.8	8.2	8.2	32.3	32.3	96.1	96.1	6.5	6.5	2.1	2	2	86	88										

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

Water Quality Monitoring Results on 07 November 19 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	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	Value	DA	Value
IM9	Cloudy	Moderate	09:56	7.5	Surface	1.0	0.3	176	25.7	25.7	8.2	8.2	32.1	32.1	95.5	95.5	6.5	6.5	1.1	1.1	2	2	89	89	90	90	822073	808819	<0.2	1.5	<0.2	1.3		
						1.0	0.3	178	25.7	8.2	8.2	32.1	32.1	95.5	95.5	6.5	6.5	1.1	1.1	2	2	89	89	90	90	822073	808819	<0.2	1.2	<0.2	1.1			
					Middle	3.8	0.2	180	25.7	25.7	8.2	8.2	32.4	32.4	94.9	94.9	6.5	6.5	1.9	1.9	3	3	90	90	90	90	822073	808819	<0.2	1.2	<0.2	1.2		
						3.8	0.2	196	25.7	25.7	8.2	8.2	32.4	32.4	94.9	94.9	6.5	6.5	2.0	2.0	3	3	90	90	90	90	822073	808819	<0.2	1.1	<0.2	1.2		
					Bottom	6.5	0.0	321	25.6	25.6	8.2	8.2	32.6	32.6	95.0	95.0	6.5	6.5	2.4	2.4	4	4	91	91	91	91	822073	808819	<0.2	1.0	<0.2	1.2		
						6.5	0.0	351	25.6	25.6	8.2	8.2	32.7	32.6	95.1	95.1	6.5	6.5	2.4	2.4	4	4	91	91	91	91	822073	808819	<0.2	1.5	<0.2	1.2		
IM10	Cloudy	Moderate	09:47	7.9	Surface	1.0	0.3	130	25.8	25.8	8.2	8.2	32.1	32.1	95.7	95.7	6.5	6.5	1.1	1.1	4	4	89	89	90	90	822392	809791	<0.2	1.2	<0.2	1.1		
						1.0	0.3	131	25.8	25.8	8.2	8.2	32.1	32.1	95.7	95.7	6.5	6.5	1.1	1.1	3	3	89	89	90	90	822392	809791	<0.2	1.1	<0.2	1.2		
					Middle	4.0	0.3	143	25.7	25.7	8.2	8.2	32.2	32.2	95.3	95.3	6.5	6.5	1.5	1.5	4	4	90	90	90	90	822392	809791	<0.2	1.2	<0.2	1.3		
						4.0	0.3	148	25.7	25.7	8.2	8.2	32.3	32.2	95.3	95.3	6.5	6.5	1.7	1.7	3	3	91	91	91	91	822392	809791	<0.2	1.2	<0.2	1.3		
					Bottom	6.9	0.2	119	25.7	25.7	8.2	8.2	32.5	32.5	95.9	96.0	6.5	6.5	10.9	10.9	3	3	91	91	91	91	822392	809791	<0.2	1.4	<0.2	1.5		
						6.9	0.2	126	25.7	25.7	8.2	8.2	32.5	32.5	96.1	96.0	6.5	6.5	10.9	10.9	4	4	91	91	91	91	822392	809791	<0.2	1.4	<0.2	1.5		
IM11	Cloudy	Moderate	09:35	7.8	Surface	1.0	0.6	134	25.7	25.7	8.2	8.2	32.3	32.3	95.3	95.4	6.5	6.5	2.2	2.2	5	5	89	89	90	90	822041	811466	<0.2	1.3	<0.2	1.3		
						1.0	0.6	136	25.7	25.7	8.2	8.2	32.3	32.3	95.4	95.4	6.5	6.5	2.2	2.2	5	5	89	89	90	90	822041	811466	<0.2	1.3	<0.2	1.3		
					Middle	3.9	0.5	123	25.7	25.7	8.2	8.2	32.3	32.3	96.1	96.2	6.5	6.5	2.5	2.5	5	5	90	90	90	90	822041	811466	<0.2	1.3	<0.2	1.3		
						3.9	0.5	130	25.7	25.7	8.2	8.2	32.3	32.3	96.3	96.2	6.5	6.5	2.6	2.6	6	6	91	91	91	91	822041	811466	<0.2	1.2	<0.2	1.3		
					Bottom	6.8	0.4	118	25.7	25.7	8.2	8.2	32.3	32.3	98.9	99.1	6.7	6.8	2.6	2.6	4	4	91	91	91	91	822041	811466	<0.2	1.2	<0.2	1.2		
						6.8	0.5	118	25.7	25.7	8.2	8.2	32.3	32.3	99.3	99.1	6.8	6.8	2.7	2.7	4	4	91	91	91	91	822041	811466	<0.2	1.2	<0.2	1.2		
IM12	Cloudy	Moderate	09:27	8.3	Surface	1.0	0.6	126	25.7	25.7	8.2	8.2	32.3	32.3	94.4	94.4	6.4	6.4	1.7	1.7	3	3	88	88	90	90	821475	812064	<0.2	1.4	<0.2	1.4		
						1.0	0.6	135	25.7	25.7	8.2	8.2	32.3	32.3	94.4	94.4	6.4	6.4	1.8	1.8	3	3	88	88	90	90	821475	812064	<0.2	1.4	<0.2	1.4		
					Middle	4.2	0.6	124	25.7	25.7	8.2	8.2	32.3	32.3	94.7	94.7	6.4	6.4	2.1	2.1	4	4	90	90	90	90	821475	812064	<0.2	1.2	<0.2	1.3		
						4.2	0.6	125	25.7	25.7	8.2	8.2	32.3	32.3	94.7	94.7	6.4	6.4	2.1	2.1	3	3	90	90	90	90	821475	812064	<0.2	1.2	<0.2	1.3		
					Bottom	7.3	0.5	119	25.7	25.7	8.2	8.2	32.3	32.3	95.0	95.1	6.5	6.5	2.2	2.2	5	5	91	91	91	91	821475	812064	<0.2	0.9	<0.2	1.2		
						7.3	0.5	122	25.7	25.7	8.2	8.2	32.3	32.3	95.1	95.1	6.5	6.5	2.2	2.2	4	4	91	91	91	91	821475	812064	<0.2	0.9	<0.2	1.2		
SR1A	Cloudy	Calm	09:09	4.9	Surface	1.0	-	-	25.9	25.9	8.2	8.2	32.1	32.1	90.5	90.5	6.1	6.1	2.6	2.6	5	5	-	-	-	-	819979	812665	-	-	-	-		
						1.0	-	-	25.9	25.9	8.2	8.2	32.1	32.1	90.5	90.5	6.1	6.1	2.6	2.6	5	5	-	-	-	-	819979	812665	-	-	-	-		
					Middle	2.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
						2.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					Bottom	3.9	-	-	25.8	25.8	8.1	8.1	32.1	32.1	95.4	95.6	6.5	6.5	2.8	2.8	5	5	-	-	-	-	-	-	819979	812665	-	-	-	-
						3.9	-	-	25.8	25.8	8.1	8.1	32.1	32.1	95.8	95.6	6.5	6.5	2.7	2.7	4	4	-	-	-	-	-	-	819979	812665	-	-	-	-
SR2	Cloudy	Calm	08:55	4.7	Surface	1.0	0.4	86	25.9	25.9	8.2	8.2	32.3	32.3	92.3	92.3	6.3	6.3	2.5	2.5	4	4	89	89	90	90	821480	814146	<0.2	0.9	<0.2	1.0		
						1.0	0.4	91	25.9	25.9	8.2	8.2	32.3	32.3	92.3	92.3	6.3	6.3	2.7	2.7	5	5	88	88	90	90	821480	814146	<0.2	1.0	<0.2	1.0		
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					Bottom	3.7	0.3	78	26.0	26.0	8.1	8.1	32.5	32.5	93.7	93.9	6.3	6.4	2.3	2.3	4	4	90	90	90	90	821480	814146	<0.2	1.1	<0.2	1.1		
						3.7	0.4	78	26.0	26.0	8.1	8.1	32.5	32.5	94.1	93.9	6.4	6.4	2.4	2.4	4	4	90	90	90	90	821480	814146	<0.2	1.1	<0.2	1.0		
SR3	Cloudy	Moderate	10:10	9.0	Surface	1.0	0.3	188	25.6	25.6	8.2	8.2	31.4	31.4	95.0	95.0	6.5	6.5	1.1	1.1	3	3	-	-	-	-	822130	807594	-	-	-	-		
						1.0	0.3	206	25.6	25.6	8.2	8.2	31.4	31.4	95.0	95.0	6.5	6.5	1.0	1.0	3	3	-	-	-	-	822130	807594	-	-	-	-		
					Middle	4.5	0.1	215	25.6	25.6	8.2	8.2	31.9	31.9	93.9	93.9	6.4	6.4	1.2	1.2	3	3	-	-	-	-	822130	807594	-	-	-	-		
						4.5	0.1	233	25.6	25.6	8.2	8.2	31.9	31.9	93.9	93.9	6.4	6.4	1.3	1.3	4	4	-	-	-	-	822130	807594	-	-	-	-		
					Bottom	8.0	0.1	333	25.7	25.7	8.2	8.2	33.1	33.1	92.9	92.9	6.3	6.3	11.0	11.0	5	5	-	-	-	-	822130	807594	-	-	-	-		
						8.0	0.1	358	25.7	25.7	8.2	8.2	33.1	33.1	92.9	92.9	6.3	6.3	11.4	11.4	5	5	-	-	-	-	822130	807594	-	-	-	-		
SR4A	Cloudy	Calm	09:25	9.6	Surface	1.0	0.1	78	25.9	25.9	8.2	8.2	32.1	32.1	96.8	96.7	6.6	6.6	1.6	1.6	4	4	-	-	-	-	817171	807797	-	-	-	-		
						1.0	0.1	78	25.9	25.9	8.2	8.2	32.1	32.1	96.6	96.7	6.6	6.6	1.6	1.6	4	4	-	-	-	-	817171	807797	-	-	-	-		
					Middle	4.8	0.1	342	25.9	25.9	8.2	8.2	32.																					

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

Water Quality Monitoring

Water Quality Monitoring Results on 07 November 19 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	16:05	7.8	Surface	1.0	0.2	56	25.8	8.2	8.2	32.7	32.7	99.3	99.2	6.7	6.6	2.6	2.5	4	5	88	91	815624	804231	<0.2	<0.2	0.9	0.8					
						1.0	0.2	57	25.8	8.2	8.2	32.7	32.7	99.1	99.2	6.7	6.6	2.6	2.5	3	5	88	91			<0.2	<0.2	0.7	0.7					
						3.9	0.2	80	25.9	8.2	8.2	33.0	33.0	95.6	95.6	6.5	6.5	2.2	2.2	5	5	90	90			<0.2	<0.2	1.0	1.0					
					Middle	3.9	0.2	84	25.9	8.2	8.2	33.0	33.0	95.5	95.5	6.5	6.4	2.2	2.5	5	5	90	93					<0.2	<0.2	0.7	0.7			
						6.8	0.1	62	25.9	8.2	8.2	33.1	33.1	94.8	94.9	6.4	6.4	2.5	2.5	5	5	90	93					<0.2	<0.2	1.0	1.0			
						6.8	0.2	69	25.9	8.2	8.2	33.1	33.1	94.9	94.9	6.4	6.4	2.5	2.5	6	6	93	93					<0.2	<0.2	0.9	0.9			
					C2	Cloudy	Moderate	15:06	10.8	Surface	1.0	0.8	70	26.0	8.2	8.2	31.9	31.9	94.2	94.2	6.4	6.4	1.0	2.2	3	5	89	90	825675	806956	<0.2	<0.2	1.2	1.1
											1.0	0.9	78	26.0	8.2	8.2	31.9	31.8	94.2	92.3	6.4	6.3	1.1	1.2	4	5	89	90			<0.2	<0.2	1.0	1.0
											5.4	0.6	71	26.0	8.2	8.2	31.8	31.8	92.5	92.3	6.3	6.3	1.2	1.5	5	5	89	90			<0.2	<0.2	1.0	1.0
Middle	5.4	0.6	78	26.0						8.2	8.2	31.9	31.9	92.1	91.7	6.3	6.2	1.5	4.3	5	5	90	90					<0.2	<0.2	1.2	1.2			
	9.8	0.3	69	26.0						8.2	8.2	32.4	32.4	91.5	91.7	6.2	6.2	4.3	4.1	5	5	90	90					<0.2	<0.2	1.2	1.2			
	9.8	0.3	72	26.0						8.2	8.2	32.4	32.4	91.9	91.9	6.2	6.2	4.1	4.1	5	5	90	90					<0.2	<0.2	1.2	1.2			
C3	Cloudy	Moderate	17:00	11.5						Surface	1.0	0.5	272	26.0	8.2	8.2	32.6	32.6	92.6	92.6	6.3	6.1	1.4	1.9	4	5	89	90	822108	817826	<0.2	<0.2	1.7	1.7
											1.0	0.5	277	26.0	8.2	8.2	32.6	32.7	92.5	89.4	6.2	6.0	1.4	1.8	4	5	90	90			<0.2	<0.2	1.7	1.7
											5.8	0.4	267	26.0	8.2	8.2	32.7	32.7	89.5	89.4	6.0	6.0	1.8	1.9	5	5	90	90			<0.2	<0.2	1.6	1.6
					Middle	5.8	0.4	269	26.0	8.2	8.2	32.7	32.7	89.2	88.8	6.0	6.0	1.9	2.6	5	6	90	91					<0.2	<0.2	1.6	1.6			
						10.5	0.3	292	26.1	8.2	8.2	32.8	32.8	88.5	88.7	6.0	6.0	2.6	2.6	6	6	91	92					<0.2	<0.2	1.6	1.6			
						10.5	0.3	293	26.1	8.2	8.2	32.8	32.8	88.8	88.8	6.0	6.0	2.6	2.6	6	6	91	92					<0.2	<0.2	1.7	1.7			
					IM1	Cloudy	Moderate	15:46	4.9	Surface	1.0	0.1	65	25.9	8.2	8.2	33.1	33.1	96.9	97.0	6.5	6.5	2.0	2.0	3	4	88	89	817935	807117	<0.2	<0.2	0.7	0.7
											1.0	0.1	70	25.9	8.2	8.2	33.1	33.1	97.0	97.0	6.5	6.5	2.0	2.0	3	4	88	89			<0.2	<0.2	0.7	0.7
											-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Middle	-	-	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	3.9	0.1	42	25.9						8.1	8.1	33.1	33.1	98.3	98.3	6.6	6.6	2.0	2.0	4	4	90	91					<0.2	<0.2	0.7	0.7			
	3.9	0.1	46	25.9						8.1	8.1	33.1	33.1	98.3	98.3	6.6	6.6	2.0	2.0	4	4	91	91					<0.2	<0.2	0.7	0.7			
IM2	Cloudy	Moderate	15:41	7.6						Surface	1.0	0.0	68	25.8	8.2	8.2	33.0	33.0	97.0	97.0	6.6	6.6	2.2	2.2	3	4	87	87	818147	806160	<0.2	<0.2	0.8	0.8
											1.0	0.0	73	25.8	8.2	8.2	33.0	33.0	97.0	96.8	6.6	6.5	2.2	2.2	3	4	87	88			<0.2	<0.2	0.8	0.8
											3.8	0.0	74	25.8	8.2	8.2	33.1	33.1	96.8	96.8	6.5	6.5	6.3	6.4	4	5	88	89			<0.2	<0.2	0.7	0.7
					Middle	3.8	0.0	82	25.8	8.2	8.2	33.1	33.1	96.8	96.8	6.5	6.4	6.3	6.4	5	5	88	89					<0.2	<0.2	0.7	0.7			
						6.6	0.0	60	25.8	8.2	8.2	33.1	33.1	97.2	97.3	6.6	6.6	10.6	10.5	5	5	91	92					<0.2	<0.2	0.8	0.8			
						6.6	0.0	67	25.8	8.2	8.2	33.1	33.1	97.3	97.3	6.6	6.6	10.5	10.5	6	6	92	92					<0.2	<0.2	0.8	0.8			
					IM3	Cloudy	Moderate	15:35	7.3	Surface	1.0	0.3	46	25.7	8.2	8.2	32.9	32.9	98.2	98.2	6.7	6.6	4.4	4.7	5	5	87	87	818779	805586	<0.2	<0.2	0.8	0.8
											1.0	0.3	50	25.7	8.2	8.2	32.9	32.9	98.2	95.9	6.7	6.5	4.4	5.2	4	5	87	90			<0.2	<0.2	0.8	0.8
											3.7	0.2	44	25.7	8.2	8.2	32.9	32.9	95.9	95.9	6.5	6.5	5.0	4.0	5	5	89	89			<0.2	<0.2	0.8	0.8
Middle	3.7	0.2	49	25.7						8.2	8.2	32.9	32.9	95.9	96.0	6.5	6.5	5.0	4.6	4	5	89	92					<0.2	<0.2	0.8	0.8			
	6.3	0.2	47	25.7						8.2	8.2	32.9	32.9	96.0	96.0	6.5	6.5	4.6	4.6	5	6	92	92					<0.2	<0.2	0.8	0.8			
	6.3	0.2	53	25.7						8.2	8.2	32.9	32.9	96.0	96.0	6.5	6.5	4.6	4.6	6	6	92	92					<0.2	<0.2	0.8	0.8			
IM4	Cloudy	Moderate	15:28	8.1						Surface	1.0	0.6	45	25.7	8.2	8.2	32.4	32.4	98.4	98.5	6.7	6.6	2.5	3.5	4	4	87	87	819729	804627	<0.2	<0.2	0.8	0.8
											1.0	0.6	49	25.7	8.2	8.2	32.4	32.7	98.5	95.9	6.7	6.5	2.5	3.4	4	4	87	89			<0.2	<0.2	0.8	0.8
											4.1	0.5	58	25.8	8.2	8.2	32.7	32.7	95.9	95.9	6.5	6.5	3.4	3.5	4	4	89	89			<0.2	<0.2	0.9	0.9
					Middle	4.1	0.5	57	25.8	8.2	8.2	32.7	32.7	95.8	95.8	6.5	6.5	3.5	4.6	4	4	89	91					<0.2	<0.2	0.8	0.8			
						7.1	0.6	66	25.8	8.2	8.2	32.8	32.8	95.8	95.8	6.5	6.5	4.6	4.6	4	4	91	91					<0.2	<0.2	0.9	0.9			
						7.1	0.6	66	25.8	8.2	8.2	32.8	32.8	95.8	95.8	6.5	6.5	4.6	4.6	3	3	91	91					<0.2	<0.2	0.8	0.8			
					IM5	Cloudy	Moderate	15:20	7.2	Surface	1.0	1.0	42	25.8	8.2	8.2	32.5	32.5	96.1	96.2	6.5	6.5	2.1	2.9	4	6	87	86	820742	804863	<0.2	<0.2	0.9	0.9
											1.0	1.1	38	25.8	8.2	8.2	32.5	32.7	96.2	95.4	6.5	6.5	2.1	2.9	4	6	86	89			<0.2	<0.2	0.8	0.8
											3.6	0.8	47	25.8	8.2	8.2	32.7	32.7	95.4	95.4	6.5	6.5	3.0	3.0	6	8	89	91			<0.2	<0.2	0.8	0.8
Middle	3.6	0.9	50	25.8						8.2	8.2	32.8	32.7	95.4	95.5	6.5	6.5	3.0	3.5	5	8	89	91					<0.2	<0.2	0.8	0.8			
	6.2	0.7	46	25.9						8.2	8.2	32.9	32.9	95.5	95.5	6.5	6.5	3.5	3.5	8	8	91	92					<0.2	<0.2	0.9	0.9			
	6.2	0.8	47	25.9						8.2	8.2	32.9	32.9	95.5	95.4	6.5	6.5	3.5	3.5	8	8	92	92					<0.2	<0.2	0.8	0.8			
IM6	Cloudy	Moderate	15:14	7.4						Surface	1.0	0.8	36	25.8	8.2	8.2	32.4	32.4	95.6	95.6	6.5	6.5	2.3	3.0	5	6	86	87	821053	805815	<0.2	<0.2	0.8	

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

Water Quality Monitoring

Water Quality Monitoring Results on 07 November 19 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	15:40	7.7	Surface	1.0	0.3	336	25.9	25.9	8.2	8.2	31.8	31.8	96.1	96.1	6.5	6.6	1.1	3	88	90	90	822107	808788	<0.2	1.1	<0.2	1.1					
						1.0	0.3	335	25.9	25.8	8.2	8.2	31.8	31.8	96.1	96.1	6.5	6.6	1.1	4	89	90	90	822107	808788	<0.2	1.1	<0.2	1.1					
						3.9	0.2	309	25.8	25.8	8.2	8.2	31.8	31.8	96.6	96.6	6.6	6.6	1.1	6	90	90	90	822107	808788	<0.2	1.2	<0.2	1.2					
					Middle	3.9	0.3	319	25.8	25.8	8.2	8.2	31.8	31.8	96.7	96.7	6.6	6.6	1.2	5	90	90	90	822107	808788	<0.2	1.1	<0.2	1.1					
						6.7	0.2	347	25.7	25.7	8.2	8.2	32.3	32.3	98.8	98.8	6.7	6.7	3.8	8	91	91	91	822107	808788	<0.2	1.1	<0.2	1.1					
						6.7	0.2	342	25.7	25.7	8.2	8.2	32.3	32.3	99.0	99.0	6.7	6.7	4.0	7	91	91	91	822107	808788	<0.2	1.2	<0.2	1.2					
					IM10	Cloudy	Moderate	15:49	7.6	Surface	1.0	0.5	332	25.9	25.9	8.2	8.2	32.0	32.0	96.0	96.0	6.5	6.5	2.0	3	89	90	90	822399	809773	<0.2	1.2	<0.2	1.3
											1.0	0.6	313	25.8	25.8	8.2	8.2	32.0	32.0	96.0	96.0	6.5	6.5	2.2	4	90	90	90	822399	809773	<0.2	1.3	<0.2	1.3
											3.8	0.5	325	25.8	25.8	8.2	8.2	32.1	32.1	95.8	95.8	6.5	6.5	2.8	4	90	90	90	822399	809773	<0.2	1.3	<0.2	1.3
Middle	3.8	0.5	305	25.8						25.8	8.2	8.2	32.1	32.1	95.8	95.8	6.5	6.5	3.1	4	90	90	90	822399	809773	<0.2	1.3	<0.2	1.3					
	6.6	0.5	308	25.7						25.7	8.2	8.2	32.2	32.2	96.4	96.4	6.6	6.6	5.2	4	92	92	92	822399	809773	<0.2	1.1	<0.2	1.1					
	6.6	0.5	319	25.7						25.7	8.2	8.2	32.2	32.2	96.6	96.6	6.6	6.6	5.5	4	91	91	91	822399	809773	<0.2	1.3	<0.2	1.3					
IM11	Cloudy	Moderate	16:01	8.0						Surface	1.0	0.5	311	25.9	25.9	8.2	8.2	32.1	32.1	96.2	96.2	6.5	6.5	1.3	4	90	90	90	822062	811461	<0.2	2.8	<0.2	2.9
											1.0	0.6	295	25.9	25.8	8.2	8.2	32.1	32.1	96.2	96.2	6.5	6.5	1.3	4	90	90	90	822062	811461	<0.2	2.9	<0.2	2.9
											4.0	0.4	299	25.8	25.8	8.2	8.2	32.1	32.1	95.9	95.9	6.5	6.5	1.6	5	90	90	90	822062	811461	<0.2	2.1	<0.2	2.1
					Middle	4.0	0.4	285	25.8	25.8	8.2	8.2	32.1	32.1	95.9	95.9	6.5	6.5	1.7	4	91	91	91	822062	811461	<0.2	2.0	<0.2	2.0					
						7.0	0.3	292	25.8	25.8	8.2	8.2	32.2	32.2	96.1	96.1	6.5	6.5	2.6	4	91	91	91	822062	811461	<0.2	1.6	<0.2	1.6					
						7.0	0.3	286	25.8	25.8	8.2	8.2	32.2	32.2	96.2	96.2	6.5	6.5	2.8	5	92	92	92	822062	811461	<0.2	1.5	<0.2	1.5					
					IM12	Cloudy	Moderate	16:08	8.1	Surface	1.0	0.4	297	25.8	25.8	8.2	8.2	32.3	32.3	97.1	97.1	6.6	6.6	1.4	4	89	89	89	821475	812031	<0.2	1.9	<0.2	2.0
											1.0	0.5	283	25.8	25.8	8.2	8.2	32.3	32.3	97.1	97.1	6.6	6.6	1.4	4	89	89	89	821475	812031	<0.2	2.0	<0.2	2.0
											4.1	0.4	286	25.8	25.8	8.2	8.2	32.4	32.4	96.7	96.7	6.6	6.6	1.8	5	90	90	90	821475	812031	<0.2	1.9	<0.2	1.9
Middle	4.1	0.4	278	25.8						25.8	8.2	8.2	32.4	32.4	96.7	96.7	6.6	6.6	1.8	4	90	90	90	821475	812031	<0.2	2.1	<0.2	2.1					
	7.1	0.3	272	25.8						25.8	8.2	8.2	32.5	32.5	97.3	97.3	6.6	6.6	2.1	5	90	90	90	821475	812031	<0.2	2.1	<0.2	2.1					
	7.1	0.3	273	25.8						25.8	8.2	8.2	32.5	32.5	97.4	97.4	6.6	6.6	2.1	5	91	91	91	821475	812031	<0.2	2.0	<0.2	2.0					
SR1A	Cloudy	Calm	16:24	5.2						Surface	1.0	-	-	25.8	25.8	8.2	8.2	32.3	32.3	97.4	97.4	6.6	6.6	1.3	4	-	-	-	819976	812659	-	-	-	-
											1.0	-	-	25.8	25.8	8.2	8.2	32.3	32.3	97.3	97.3	6.6	6.6	1.4	5	-	-	-	819976	812659	-	-	-	-
											2.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	819976	812659	-	-
					Middle	2.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	819976	812659	-	-	-	-			
						4.2	-	-	25.8	25.8	8.2	8.2	32.3	32.3	97.3	97.3	6.6	6.6	1.4	4	-	-	-	-	-	819976	812659	-	-	-	-			
						4.2	-	-	25.8	25.8	8.2	8.2	32.3	32.3	97.3	97.3	6.6	6.6	1.4	4	-	-	-	-	-	819976	812659	-	-	-	-			
					SR2	Cloudy	Moderate	16:37	4.8	Surface	1.0	0.2	277	26.0	26.0	8.2	8.2	32.4	32.4	94.4	94.4	6.4	6.4	2.2	4	88	89	89	821460	814143	<0.2	1.8	<0.2	1.7
											1.0	0.3	284	26.0	26.0	8.2	8.2	32.4	32.4	94.4	94.4	6.4	6.4	2.5	4	89	89	89	821460	814143	<0.2	1.7	<0.2	1.7
											-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	821460	814143	<0.2	1.8
Middle	-	-	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	821460	814143	<0.2	1.7	<0.2	1.7			
	3.8	0.2	265	26.0						26.0	8.2	8.2	32.4	32.4	94.8	94.8	6.4	6.4	2.7	4	89	89	89	821460	814143	<0.2	1.7	<0.2	1.7					
	3.8	0.2	266	26.0						26.0	8.2	8.2	32.4	32.4	94.9	94.9	6.4	6.4	2.6	4	90	90	90	821460	814143	<0.2	1.8	<0.2	1.8					
SR3	Cloudy	Moderate	15:25	8.6						Surface	1.0	0.5	58	25.8	25.8	8.2	8.2	31.8	31.8	95.9	95.9	6.5	6.5	1.1	2	-	-	-	822128	807571	-	-	-	-
											1.0	0.5	59	25.8	25.8	8.2	8.2	31.8	31.8	95.8	95.8	6.5	6.5	1.1	2	-	-	-	822128	807571	-	-	-	-
											4.3	0.2	60	25.7	25.7	8.2	8.2	32.1	32.1	94.9	94.9	6.5	6.5	1.5	3	-	-	-	822128	807571	-	-	-	-
					Middle	4.3	0.2	67	25.7	25.7	8.2	8.2	32.2	32.2	94.9	94.9	6.5	6.5	1.7	2	-	-	-	822128	807571	-	-	-	-					
						7.6	0.2	65	25.7	25.7	8.2	8.2	32.5	32.5	95.3	95.3	6.5	6.5	2.3	3	-	-	-	822128	807571	-	-	-	-					
						7.6	0.2	72	25.7	25.7	8.2	8.2	32.5	32.5	95.3	95.3	6.5	6.5	2.3	3	-	-	-	822128	807571	-	-	-	-					
					SR4A	Cloudy	Calm	16:25	9.5	Surface	1.0	0.7	244	25.9	25.9	8.2	8.2	32.6	32.6	96.3	96.4	6.5	6.5	2.1	4	-	-	-	817194	807829	-	-	-	-
											1.0	0.7	253	25.9	25.9	8.2	8.2	32.6	32.6	96.4	96.4	6.5	6.5	2.1	4	-	-	-	817194	807829	-	-	-	-
											4.8	0.6	248	25.9	25.9	8.2	8.2	33.0	33.0	94.8	94.8	6.4	6.4	2.3	5	-	-	-	817194	807829	-	-	-	-
Middle	4.8	0.7	258	25.9						25.9	8.2	8.2	33.0	33.0	94.8	94.8	6.4	6.4	2.3	4	-	-	-	817194	807829	-	-	-	-					
	8.5	0.6	249	25.9						25.9	8.2	8.2	33.1	33.1	95.5	95.5	6.4	6.4	3.5	4	-	-	-	817194	807829	-	-	-	-					
	8.5	0.7	265	25.9						25.9	8.2	8.2	33.1	33.1	95.6	95.6	6.4	6.4	3.6	4	-	-	-	817194	807829	-	-	-	-					
SR5A	Cloudy	Calm	16:44	3.4						Surface	1.0	0.4	290	25.8	25.8	8.2	8.2	32.1	32.1	101.1	101.1	6.9	6.9	1.1	2	-	-	-	816588	810677	-	-	-	-
											1.0																							

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

Water Quality Monitoring

Water Quality Monitoring Results on 09 November 19 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	10:53	8.8	Surface	1.0	0.5	231	25.1	25.1	8.2	8.2	33.3	33.3	96.3	96.3	6.6	6.6	4.1	6.6	5	6	88	88	89	815605	804243	<0.2	0.6	<0.2	0.6								
						1.0	0.5	250	25.1	8.2	8.2	33.3	33.3	96.2	96.2	6.6	6.6	4.2	6.6	6	6	88	88	<0.2				0.6											
						4.4	0.4	243	25.1	8.2	8.2	33.3	33.3	95.6	95.6	6.5	6.5	9.8	6.6	6	6	89	89	<0.2				0.6											
					Middle	4.4	0.4	265	25.1	8.2	8.2	33.3	33.3	95.5	95.5	6.5	6.5	9.5	6.5	5	5	89	89	5				5	90	90	<0.2	0.6	<0.2	0.6					
						7.8	0.3	231	25.1	8.2	8.2	33.3	33.3	95.5	95.5	6.5	6.5	10.8	6.5	6	6	91	91	6				6	90	90	<0.2	0.6	<0.2	0.6					
						7.8	0.4	238	25.1	8.2	8.2	33.3	33.3	95.4	95.4	6.5	6.5	10.8	6.5	5	5	90	90	5				5	89	89	<0.2	0.6	<0.2	0.6					
					C2	Fine	Moderate	11:43	10.4	Surface	1.0	0.2	150	25.3	25.3	8.2	8.2	32.8	32.8	99.7	99.7	6.8	6.8	2.0				6.8	4	3	89	89	90	825702	806954	<0.2	0.8	<0.2	0.7
											1.0	0.2	164	25.2	8.2	8.2	32.8	32.8	99.6	99.6	6.8	6.8	2.1	6.8				3	3	89	89	<0.2				0.7			
											5.2	0.2	167	25.1	8.2	8.2	33.0	33.0	95.0	94.9	6.5	6.5	4.3	6.5				5	5	91	91	<0.2				0.8			
Middle	5.2	0.2	170	25.2						8.2	8.2	33.1	33.0	94.7	94.7	6.5	6.5	4.4	6.5	5	5	90	90	5	5	91	91	<0.2	0.8	<0.2	0.8								
	9.4	0.4	172	25.4						8.2	8.2	33.3	33.3	94.4	94.4	6.4	6.4	4.9	6.4	8	8	91	91	8	8	91	91	<0.2	0.7	<0.2	0.7								
	9.4	0.4	188	25.3						8.2	8.2	33.3	33.3	94.6	94.6	6.4	6.4	4.9	6.4	7	7	92	92	7	7	90	90	<0.2	0.8	<0.2	0.8								
C3	Fine	Moderate	09:48	11.1						Surface	1.0	0.5	67	25.9	25.9	8.2	8.2	33.9	33.9	91.6	91.6	6.2	6.2	1.2	6.2	3	3	89	89	90	822103	817822				<0.2	0.5	<0.2	0.5
											1.0	0.5	69	25.9	25.9	8.2	8.2	33.9	33.9	91.5	91.5	6.2	6.2	1.3	6.2	3	3	89	89							<0.2	0.5		
											5.6	0.2	74	25.9	25.9	8.2	8.2	33.9	33.9	91.0	91.0	6.1	6.1	1.4	6.1	3	3	90	90							<0.2	0.6		
					Middle	5.6	0.2	79	25.9	25.9	8.2	8.2	34.0	33.9	90.9	91.0	6.1	6.1	1.4	6.1	3	3	90	90	3	3	90	90	<0.2				0.5	<0.2	0.5				
						10.1	0.3	87	25.9	25.9	8.2	8.2	34.0	34.0	91.0	91.1	6.1	6.1	1.6	6.1	4	4	91	91	4	4	91	91	<0.2				0.5	<0.2	0.5				
						10.1	0.3	95	25.9	25.9	8.2	8.2	34.0	34.0	91.1	91.1	6.1	6.1	1.6	6.1	4	4	91	91	4	4	91	91	<0.2				0.6	<0.2	0.6				
					IM1	Fine	Moderate	11:13	5.7	Surface	1.0	0.2	154	24.9	24.9	8.2	8.2	32.9	32.9	103.1	101.5	7.1	7.1	3.1	7.1	3	4	84	84				86	817971	807113	<0.2	0.7	<0.2	0.7
											1.0	0.2	155	24.9	24.9	8.2	8.2	32.9	32.9	99.9	99.9	6.9	6.9	3.3	6.9	4	4	84	84							<0.2	0.7		
											-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							-	-	-	-
Middle	4.7	0.3	170	24.8						24.8	8.2	8.2	32.9	32.9	99.5	99.6	6.8	6.8	3.9	6.8	3	3	88	88	3	3	88	88	<0.2	0.8	<0.2	0.8							
	4.7	0.3	178	24.8						24.8	8.2	8.2	32.9	32.9	99.6	99.6	6.9	6.9	3.8	6.9	4	4	87	87	4	4	87	87	<0.2	0.8	<0.2	0.8							
	-	-	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-			
IM2	Fine	Moderate	11:20	7.0						Surface	1.0	0.1	176	24.9	24.9	8.2	8.2	32.6	32.6	103.1	103.1	7.1	7.1	2.2	7.1	3	3	83	83	86	818164	806149				<0.2	0.7	<0.2	0.7
											1.0	0.1	178	24.9	24.9	8.2	8.2	32.6	32.6	103.1	103.1	7.1	7.1	2.3	7.1	3	3	83	83							<0.2	0.7		
											3.5	0.1	152	25.0	25.0	8.2	8.2	33.0	33.0	101.9	101.9	7.0	7.0	2.7	7.0	4	4	86	86							<0.2	0.7		
					Middle	3.5	0.1	154	25.0	25.0	8.2	8.2	33.0	33.0	101.8	101.8	7.0	7.0	2.7	7.0	5	5	87	87	5	5	87	87	<0.2				0.7	<0.2	0.7				
						6.0	0.1	127	25.0	25.0	8.2	8.2	33.1	33.1	96.5	96.5	6.6	6.6	9.8	6.6	4	4	89	89	4	4	89	89	<0.2				0.6	<0.2	0.6				
						6.0	0.1	131	25.0	25.0	8.2	8.2	33.1	33.1	96.5	96.5	6.6	6.6	9.8	6.6	5	5	88	88	5	5	88	88	<0.2				0.7	<0.2	0.7				
					IM3	Fine	Moderate	11:30	7.3	Surface	1.0	0.1	116	24.9	24.9	8.2	8.2	32.7	32.7	101.8	101.7	7.0	7.0	2.1	7.0	4	5	85	84				87	818797	805588	<0.2	0.8	<0.2	0.8
											1.0	0.1	119	24.9	24.9	8.2	8.2	32.7	32.7	101.6	101.6	7.0	7.0	2.2	7.0	5	5	84	84							<0.2	0.8		
											3.7	0.1	124	24.9	24.9	8.2	8.2	32.9	32.9	99.2	99.1	6.8	6.8	3.0	6.8	4	4	87	87							<0.2	0.7		
Middle	3.7	0.1	128	24.9						24.9	8.2	8.2	32.9	32.9	99.0	99.1	6.8	6.8	3.5	6.8	5	5	87	87	5	5	87	87	<0.2	0.7	<0.2	0.7							
	6.3	0.1	118	24.9						24.9	8.2	8.2	33.1	33.1	97.8	97.8	6.7	6.7	6.1	6.7	5	5	90	90	5	5	90	90	<0.2	0.7	<0.2	0.7							
	6.3	0.1	126	24.9						24.9	8.2	8.2	33.1	33.1	97.8	97.8	6.7	6.7	6.3	6.7	5	5	89	89	5	5	89	89	<0.2	0.7	<0.2	0.7							
IM4	Fine	Calm	11:39	7.5						Surface	1.0	0.5	167	24.9	24.9	8.2	8.2	32.6	32.6	105.1	105.1	7.2	7.2	1.9	7.2	3	4	84	84	87	819736	804599				<0.2	1.0	<0.2	0.9
											1.0	0.5	176	24.9	24.9	8.2	8.2	32.6	32.6	105.1	105.1	7.2	7.2	2.0	7.2	4	4	84	84							<0.2	0.9		
											3.8	0.3	166	24.9	24.9	8.2	8.2	33.0	33.0	98.9	98.9	6.8	6.8	3.3	6.8	5	5	87	87							<0.2	1.0		
					Middle	3.8	0.3	180	24.9	24.9	8.2	8.2	33.0	33.0	98.9	98.9	6.8	6.8	3.3	6.8	5	5	87	87	5	5	87	87	<0.2				1.0	<0.2	1.0				
						6.5	0.3	143	24.9	24.9	8.2	8.2	33.0	33.0	98.8	98.9	6.8	6.8	3.6	6.8	6	6	89	89	6	6	89	89	<0.2				0.8	<0.2	0.8				
						6.5	0.3	153	24.9	24.9	8.2	8.2	33.0	33.0	98.9	98.9	6.8	6.8	3.7	6.8	6	6	89	89	6	6	89	89	<0.2				0.8	<0.2	0.8				
					IM5	Fine	Calm	11:50	7.8	Surface	1.0	0.3	221	24.9	24.9	8.2	8.2	32.8	32.8	103.3	103.2	7.1	7.1	2.0	7.1	4	6	86	85				88	820751	804846	<0.2	0.6	<0.2	0.6
											1.0	0.3	239	24.9	24.9	8.2	8.2	32.8	32.8	103.0	103.0	7.1	7.1	2.1	7.1	5	5	85	85							<0.2	0.6		
											3.9	0.2	209	24.9	24.9	8.2	8.2	32.9	32.9	101.3	101.3	7.0	7.0	2.4	7.0	5	5	88	88							<0.2	0.7		
Middle	3.9	0.2	215	24.9						24.9	8.2	8.2	32.9	32.9	101.2	101.2	6.9	6.9	2.5	6.9	6	6	88	88	6	6	88	88	<0.2	0.8	<0.2	0.8							
	6.8	0.2	154	24.9						24.9	8.2	8.2	33.0	33.0	100.5	100.5	6.9	6.9	3.6	6.9	7	7	90	90	7	7	90	90	<0.2	0.9	<0.2	0.9							
	6.8	0.2	157	24.9						24.9	8.2	8.2	33.0	33.0	100.4	100.4	6.9	6.9	3.7	6.9	6	6	89	89	6	6	89	89											

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

Water Quality Monitoring Results on 09 November 19 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								
IM9	Fine	Moderate	11:09	7.6	Surface	1.0	0.4	104	24.9	24.9	8.2	8.2	33.0	33.1	104.4	104.3	7.2	7.2	2.2	4	88	89	89	89	822089	808805	<0.2	0.9	<0.2	0.8							
						1.0	0.4	104	24.9	24.9	8.2	8.2	33.1	33.2	104.1	104.2	7.2	7.2	2.2	5	89	89	89	89	822089	808805	<0.2	0.8	<0.2	0.8							
						3.8	0.3	89	24.8	24.8	8.2	8.2	33.2	33.2	103.2	103.2	7.1	7.1	5.5	6	89	89	89	89	822089	808805	<0.2	1.0	<0.2	0.8							
					Middle	3.8	0.3	91	24.8	24.8	8.2	8.2	33.2	33.2	103.1	103.2	7.1	7.1	5.3	5	89	89	89	89	822089	808805	<0.2	0.7	<0.2	0.9							
						6.6	0.3	87	24.8	24.8	8.2	8.2	33.2	33.2	102.5	102.6	7.0	7.0	10.3	6	90	90	90	90	822089	808805	<0.2	0.9	<0.2	0.9							
						6.6	0.3	93	24.8	24.8	8.2	8.2	33.2	33.2	102.6	102.6	7.0	7.0	10.3	6	91	91	91	91	822089	808805	<0.2	0.9	<0.2	0.9							
					IM10	Fine	Moderate	11:01	7.7	Surface	1.0	0.6	123	25.0	25.0	8.2	8.2	32.8	32.8	104.8	104.8	7.2	7.2	1.3	6	88	89	89	89	822377	809810	<0.2	0.8	<0.2	0.7		
											1.0	0.6	134	25.0	25.0	8.2	8.2	32.8	32.8	104.8	104.8	7.2	7.2	1.4	6	89	89	89	89	822377	809810	<0.2	0.7	<0.2	0.7		
											3.9	0.6	116	24.9	24.9	8.2	8.2	32.9	32.9	104.5	104.5	7.2	7.2	1.2	6	89	89	89	89	822377	809810	<0.2	0.7	<0.2	0.7		
Middle	3.9	0.6	125	24.9						24.9	8.2	8.2	32.9	32.9	104.5	104.5	7.2	7.2	1.2	7	90	90	90	90	822377	809810	<0.2	0.7	<0.2	0.7							
	6.7	0.4	108	24.8						24.8	8.2	8.2	33.3	33.3	101.9	101.9	7.0	7.0	2.9	7	91	91	91	91	822377	809810	<0.2	0.8	<0.2	0.9							
	6.7	0.4	112	24.8						24.8	8.2	8.2	33.3	33.3	101.9	101.9	7.0	7.0	2.9	6	91	91	91	91	822377	809810	<0.2	0.8	<0.2	0.9							
IM11	Fine	Moderate	10:48	8.0						Surface	1.0	0.7	103	25.4	25.4	8.2	8.2	33.2	33.2	95.5	95.4	6.5	6.5	1.4	5	88	89	89	89	822042	811465	<0.2	0.6	<0.2	0.7		
											1.0	0.7	113	25.4	25.4	8.2	8.2	33.2	33.2	95.3	95.4	6.5	6.5	1.4	4	89	89	89	89	822042	811465	<0.2	0.7	<0.2	0.6		
											4.0	0.4	111	25.4	25.4	8.2	8.2	33.3	33.3	93.0	92.9	6.3	6.3	2.8	5	90	90	90	90	822042	811465	<0.2	0.6	<0.2	0.7		
					Middle	4.0	0.5	118	25.4	25.4	8.2	8.2	33.3	33.3	92.7	92.9	6.3	6.3	3.1	5	90	90	90	90	822042	811465	<0.2	0.7	<0.2	0.6							
						7.0	0.4	125	25.4	25.4	8.2	8.2	33.3	33.3	92.7	92.8	6.3	6.3	6.2	4	91	91	91	91	822042	811465	<0.2	0.7	<0.2	0.7							
						7.0	0.4	125	25.4	25.4	8.2	8.2	33.3	33.3	92.9	92.9	6.3	6.3	5.8	4	91	91	91	91	822042	811465	<0.2	0.7	<0.2	0.7							
					IM12	Fine	Moderate	10:41	8.3	Surface	1.0	0.6	114	25.5	25.5	8.2	8.2	33.3	33.3	95.4	95.4	6.5	6.5	1.7	4	89	89	89	89	821448	812043	<0.2	0.6	<0.2	0.6		
											1.0	0.7	117	25.5	25.5	8.2	8.2	33.3	33.3	95.3	95.3	6.5	6.5	1.6	3	89	89	89	89	821448	812043	<0.2	0.6	<0.2	0.6		
											4.2	0.4	95	25.4	25.4	8.2	8.2	33.3	33.3	94.5	94.5	6.4	6.4	1.6	4	90	90	90	90	821448	812043	<0.2	0.3	<0.2	0.4		
Middle	4.2	0.4	95	25.4						25.4	8.2	8.2	33.3	33.3	94.5	94.5	6.4	6.4	1.6	4	90	90	90	90	821448	812043	<0.2	0.4	<0.2	0.3							
	7.3	0.2	90	25.4						25.4	8.2	8.2	33.3	33.3	94.6	94.7	6.4	6.4	1.8	4	91	91	91	91	821448	812043	<0.2	0.7	<0.2	0.7							
	7.3	0.2	96	25.4						25.4	8.2	8.2	33.3	33.3	94.8	94.8	6.4	6.4	1.8	4	91	91	91	91	821448	812043	<0.2	0.7	<0.2	0.7							
SR1A	Fine	Calm	10:24	4.8						Surface	1.0	-	-	25.1	25.2	8.2	8.2	32.6	32.6	95.5	95.5	6.5	6.5	1.9	4	-	-	-	-	819974	812654	-	-	-	-		
											1.0	-	-	25.2	25.2	8.2	8.2	32.7	32.7	95.5	95.5	6.5	6.5	1.9	6	-	-	-	-	819974	812654	-	-	-	-		
											2.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					Middle	2.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	819974	812654	-	-	-	-				
						3.8	-	-	25.2	25.2	8.2	8.2	32.7	32.7	96.2	96.3	6.6	6.6	4.0	6	-	-	-	-	-	-	819974	812654	-	-	-	-					
						3.8	-	-	25.2	25.2	8.2	8.2	32.7	32.7	96.3	96.3	6.6	6.6	4.0	6	-	-	-	-	-	-	819974	812654	-	-	-	-					
					SR2	Fine	Moderate	10:11	4.5	Surface	1.0	0.2	78	25.5	25.5	8.2	8.2	33.3	33.3	95.2	95.2	6.5	6.5	8.0	4	88	88	88	88	821474	814142	<0.2	0.6	<0.2	0.6		
											1.0	0.2	85	25.4	25.4	8.2	8.2	33.3	33.3	95.2	95.2	6.5	6.5	8.0	4	88	88	88	88	821474	814142	<0.2	0.6	<0.2	0.6		
											-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	821474	814142	<0.2	0.6	<0.2
Middle	-	-	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	821474	814142	<0.2	0.6	<0.2	0.6				
	3.5	0.1	39	25.4						25.4	8.2	8.2	33.3	33.3	95.3	95.4	6.5	6.5	1.4	7	90	90	90	90	821474	814142	<0.2	0.6	<0.2	0.5							
	3.5	0.1	41	25.4						25.4	8.2	8.2	33.3	33.3	95.4	95.4	6.5	6.5	1.4	6	90	90	90	90	821474	814142	<0.2	0.6	<0.2	0.5							
SR3	Fine	Moderate	11:21	9.2						Surface	1.0	0.1	108	25.0	25.0	8.2	8.2	32.9	32.9	105.0	105.0	7.2	7.2	1.2	5	-	-	-	-	822147	807578	-	-	-	-		
											1.0	0.1	111	25.0	25.0	8.2	8.2	32.9	32.9	104.9	104.9	7.2	7.2	1.2	4	-	-	-	-	-	-	822147	807578	-	-	-	-
											4.6	0.2	188	24.9	24.9	8.2	8.2	33.1	33.1	104.3	104.3	7.2	7.2	1.7	6	-	-	-	-	-	-	822147	807578	-	-	-	-
					Middle	4.6	0.2	190	24.9	24.9	8.2	8.2	33.1	33.1	104.3	104.3	7.2	7.2	1.7	5	-	-	-	-	-	-	822147	807578	-	-	-	-					
						8.2	0.1	124	24.8	24.8	8.2	8.2	33.6	33.6	102.5	102.5	7.0	7.0	1.8	5	-	-	-	-	-	-	822147	807578	-	-	-	-					
						8.2	0.1	135	24.8	24.8	8.2	8.2	33.6	33.6	102.5	102.5	7.0	7.0	1.8	6	-	-	-	-	-	-	822147	807578	-	-	-	-					
					SR4A	Fine	Moderate	10:28	8.5	Surface	1.0	0.5	58	24.9	24.9	8.2	8.2	33.0	33.0	98.9	98.9	6.8	6.8	2.9	4	-	-	-	-	817193	807790	-	-	-	-		
											1.0	0.5	58	24.9	24.9	8.2	8.2	33.0	33.0	98.9	98.9	6.8	6.8	2.9	5	-	-	-	-	-	-	817193	807790	-	-	-	-
											4.3	0.4	65	24.9	24.9	8.2	8.2	33.0	33.0	98.5	98.5	6.8	6.8	2.9	4	-	-	-	-	-	-	817193	807790	-	-	-	-
Middle	4.3	0.5	67	24.9						24.9	8.2	8.2	33.0	33.0	98.4	98.4	6.8	6.8	2.9	6	-	-	-	-	-	-	817193	807790	-	-	-	-					
	7.5	0.2	78	24.8						24.8	8.2	8.2	33.0	33.0	97.6	97.6	6.7	6.7	2.9	8	-	-	-	-	-	-	817193	807790	-	-	-	-					
	7.5	0.3	79	24.8						24.8	8.2	8.2	33.0	33.0																							

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

Water Quality Monitoring

Water Quality Monitoring Results on 09 November 19 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
C1	Fine	Calm	16:50	8.6	Surface	1.0	0.1	53	25.1	25.1	8.3	8.3	32.7	32.8	107.3	107.2	7.3	7.3	2.2	3	86	88	<0.2	0.6	88	815613	804268	<0.2	0.6	0.6						
						1.0	0.1	58	25.1	8.3	8.3	32.8	32.8	107.1	107.2	7.3	7.3	2.4	4	87	88	<0.2	0.6													
						4.3	0.1	38	25.1	8.2	8.2	33.1	33.1	102.2	102.2	7.0	7.0	3.9	4	89	90	<0.2	0.5													
					4.3	0.1	35	25.1	8.2	8.2	33.1	33.1	102.1	102.1	7.0	7.0	3.8	3	86	87	<0.2	0.6														
					7.6	0.1	60	25.1	8.3	8.3	33.1	33.1	99.8	99.8	6.8	6.8	9.5	4	91	90	<0.2	0.6														
					7.6	0.1	67	25.1	8.3	8.3	33.1	33.1	99.8	99.8	6.8	6.8	9.5	3	90	89	<0.2	0.7														
C2	Fine	Moderate	15:49	10.7	Surface	1.0	0.1	65	25.3	25.3	8.2	8.2	32.8	32.8	99.8	99.7	6.8	6.8	1.8	5	89	89	<0.2	0.8	90	825673	806940	<0.2	0.8	0.8						
						1.0	0.2	70	25.3	8.2	8.2	32.8	32.8	99.6	99.6	6.8	6.8	1.8	5	89	89	<0.2	0.8													
						5.4	0.2	52	25.1	8.2	8.2	33.1	33.1	93.9	93.7	6.4	6.4	4.6	6	90	90	<0.2	0.8													
					5.4	0.2	54	25.2	8.2	8.2	33.1	33.1	93.5	93.2	6.4	6.4	4.8	7	90	90	<0.2	0.8														
					9.7	0.4	79	25.5	8.2	8.2	33.4	33.4	93.2	93.3	6.3	6.3	5.1	8	91	91	<0.2	0.8														
					9.7	0.4	80	25.5	8.2	8.2	33.4	33.4	93.4	93.4	6.3	6.3	5.1	8	91	91	<0.2	0.7														
C3	Fine	Moderate	17:28	11.3	Surface	1.0	0.1	222	25.7	25.7	8.2	8.2	33.5	33.5	97.7	97.6	6.6	6.6	1.7	6	89	89	<0.2	0.6	90	822096	817812	<0.2	0.6	0.6						
						1.0	0.1	228	25.7	8.2	8.2	33.7	33.7	97.5	97.5	6.6	6.6	1.9	6	89	89	<0.2	0.6													
						5.7	0.1	243	25.8	8.2	8.2	33.7	33.7	94.6	94.5	6.4	6.4	2.0	6	89	90	<0.2	0.6													
					5.7	0.1	249	25.8	8.2	8.2	33.7	33.7	94.3	94.2	6.3	6.3	5.4	5	91	91	<0.2	0.6														
					10.3	0.2	257	25.8	8.2	8.2	33.8	33.8	94.2	94.4	6.3	6.4	5.8	5	91	91	<0.2	0.6														
					10.3	0.2	263	25.8	8.2	8.2	33.8	33.8	94.5	94.5	6.4	6.4	5.8	5	92	92	<0.2	0.7														
IM1	Fine	Moderate	16:30	5.8	Surface	1.0	0.1	49	25.0	25.0	8.3	8.3	32.7	32.7	102.4	102.3	7.0	7.0	2.9	3	86	87	<0.2	0.6	87	817939	807143	<0.2	0.6	0.6						
						1.0	0.1	49	25.0	8.3	8.3	32.7	32.7	102.2	102.2	7.0	7.0	3.0	4	84	84	<0.2	0.6													
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-		-	-	-	-	-	
					4.8	0.1	47	24.9	8.2	8.2	32.9	32.9	100.9	100.9	6.9	6.9	3.8	4	89	88	<0.2	0.6														
					4.8	0.1	43	24.9	8.2	8.2	32.9	32.9	100.9	100.9	6.9	6.9	3.7	4	88	88	<0.2	0.5														
					4.8	0.1	43	24.9	8.2	8.2	32.9	32.9	100.9	100.9	6.9	6.9	3.7	4	88	88	<0.2	0.5														
IM2	Fine	Moderate	16:24	7.9	Surface	1.0	0.2	352	25.0	25.0	8.3	8.3	32.4	32.4	108.5	108.5	7.5	7.5	1.8	3	86	88	<0.2	0.5	88	818169	806166	<0.2	0.6	0.6						
						1.0	0.2	324	25.0	8.3	8.3	32.4	32.4	108.4	108.4	7.5	7.5	1.8	2	85	85	<0.2	0.6													
						4.0	0.1	346	24.9	8.3	8.3	32.5	32.5	106.4	106.4	7.3	7.3	5.6	2	88	88	<0.2	0.6													
					4.0	0.1	318	24.9	8.3	8.3	32.5	32.5	106.4	106.4	7.3	7.3	6.0	3	88	88	<0.2	0.6														
					6.9	0.1	298	24.9	8.2	8.2	33.0	33.0	99.0	98.9	6.8	6.8	7.7	4	91	91	<0.2	0.7														
					6.9	0.1	313	24.9	8.2	8.2	33.0	33.0	99.0	98.8	6.8	6.8	7.3	4	90	90	<0.2	0.7														
IM3	Fine	Moderate	16:19	7.2	Surface	1.0	0.2	348	24.9	24.9	8.3	8.3	32.8	32.8	103.9	103.9	7.1	7.1	2.2	4	85	85	<0.2	0.6	88	818781	805608	<0.2	0.6	0.5						
						1.0	0.2	320	24.9	8.3	8.3	32.8	32.8	103.8	103.8	7.1	7.1	2.2	5	85	85	<0.2	0.6													
						3.6	0.1	314	24.9	8.3	8.3	32.8	32.8	102.4	102.4	7.0	7.0	2.1	5	89	89	<0.2	0.5													
					3.6	0.1	339	24.9	8.3	8.3	32.8	32.8	102.3	102.3	7.0	7.0	2.0	4	88	88	<0.2	0.5														
					6.2	0.0	246	24.9	8.2	8.2	32.8	32.8	101.8	101.8	7.0	7.0	11.0	4	91	91	<0.2	0.5														
					6.2	0.0	246	24.9	8.2	8.2	32.8	32.8	101.7	101.7	7.0	7.0	11.0	6	90	90	<0.2	0.5														
IM4	Fine	Moderate	16:11	7.7	Surface	1.0	0.0	24	25.0	25.0	8.3	8.3	32.8	32.8	104.9	104.8	7.2	7.2	2.4	4	84	85	<0.2	0.5	88	819707	804586	<0.2	0.6	0.6						
						1.0	0.0	25	25.0	8.3	8.3	32.8	32.8	104.7	104.7	7.2	7.2	2.5	2	85	85	<0.2	0.7													
						3.9	0.1	18	25.0	8.3	8.3	32.9	32.9	103.5	103.5	7.1	7.1	3.1	4	88	88	<0.2	0.6													
					3.9	0.1	18	25.0	8.3	8.3	32.9	32.9	102.7	102.7	7.1	7.1	3.4	4	88	88	<0.2	0.5														
					6.7	0.1	345	25.0	8.2	8.2	33.0	33.0	102.2	102.2	7.0	7.0	4.2	4	91	91	<0.2	0.6														
					6.7	0.1	317	25.0	8.2	8.2	33.0	33.0	102.3	102.3	7.0	7.0	4.1	4	90	90	<0.2	0.6														
IM5	Fine	Moderate	16:04	7.8	Surface	1.0	0.2	26	25.1	25.1	8.3	8.3	33.0	33.0	103.5	103.5	7.1	7.1	4.7	3	85	85	<0.2	0.6	87	820744	804871	<0.2	0.5	0.5						
						1.0	0.2	30	25.1	8.3	8.3	33.0	33.0	103.5	103.5	7.1	7.1	4.8	4	84	84	<0.2	0.5													
						3.9	0.1	29	25.0	8.3	8.3	33.0	33.0	102.9	102.8	7.0	7.0	3.7	3	88	88	<0.2	0.5													
					3.9	0.2	30	25.0	8.3	8.3	33.0	33.0	102.7	102.7	7.0	7.0	3.9	4	87	87	<0.2	0.5														
					6.8	0.1	26	25.0	8.2	8.2	33.0	33.0	101.8	101.8	7.0	7.0	4.1	3	90	90	<0.2	0.6														
					6.8	0.1	28	25.0	8.2	8.2	33.0	33.0	101.7	101.7	7.0	7.0	4.1	4	89	89	<0.2	0.5														
IM6	Fine	Moderate	16:01	7.6	Surface	1.0	0.2	24	25.0	25.0	8.3	8.3	32.9	32.9	103.6	103.6	7.1	7.1	2.6	6	86	86	<0.2	0.6	88	821058	805850	<0.2	0.6	0.6						
						1.0	0.2	27	25.0	8.3	8.3	32.9	32.9	103.6	103.6	7.1	7.1	2.6	5	85	85	<0.2	0.6													
						3.8	0.1	22	25.0	8.3	8.3	32.9	32.9	103.3	103.3	7.1	7.1	2.5	6	88	88	<0.2	0.6													
					3.8	0.1	22	25.0	8.3	8.3	32.9	32.9	103.3	103.3	7.1	7.1	2.5	5	87	87	<0.2	0.6														
					6.6	0.1	10	24.9	8.2	8.2	32.9	32.9	102.5	102.4	7.0	7.0	3.0	6	90	90	<0.2	0.6														
					6.6	0.1	11	24.9	8.2	8.2	32.9	32.9	102.3	102.3	7.0	7.0	3.0	6	89	89	<0.2	0.6														
IM7	Fine	Moderate	15:52	8.0	Surface	1.0	0.1	23	24.9	24.9	8.3	8.3	32.6	32.6	107.3	107.3	7.4	7.4	1.5	6	86	86	<0.2	0.8	88	821348	806835	<0.2	0.7	0.7						
						1.0	0.1	25	24.9	8.3	8.3	32.6	32.6	107.2	107.2	7.4	7.4	1.5	6	85	85	<0.2	0.7													
						4.0	0.1	16	24.9	8.3	8.3	32.8	32.8	105.3	105.3	7.2	7.2	1.9	7	88	88	<0.2	0.7													
					4.0	0.1	16	24.9	8.3	8.3	32.8	32.8	105.2	105.2	7.2	7.2	2.2	8	89	89	<0.2	0.7														

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

Water Quality Monitoring Results on 09 November 19 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	16:20	7.5	Surface	1.0	0.3	338	25.2	25.2	8.2	8.2	32.8	32.8	110.1	110.1	7.5	7.5	2.9	2.9	2	89	89	89	822117	808811	<0.2	0.8	<0.2	0.8					
						1.0	0.3	314	25.2	8.2	8.2	32.8	32.8	110.1	110.1	7.5	7.5	2.9	2.9	2	89	89	89	822117	808811	<0.2	0.8	<0.2	0.8						
						3.8	0.3	306	24.9	8.2	8.2	33.1	33.1	105.9	105.8	7.3	7.3	3.5	3.5	3	88	88	88	822117	808811	<0.2	0.9	<0.2	0.9						
					Middle	3.8	0.4	322	24.9	8.2	8.2	33.1	33.1	105.6	105.6	7.2	7.2	3.5	3.5	2	89	89	89	822117	808811	<0.2	0.8	<0.2	0.8						
						6.5	0.2	311	24.9	8.2	8.2	33.3	33.3	104.7	104.8	7.2	7.2	3.3	3.3	3	90	90	90	822117	808811	<0.2	0.8	<0.2	0.8						
						6.5	0.3	319	24.9	8.2	8.2	33.3	33.3	104.8	104.8	7.2	7.2	3.4	3.4	4	90	90	90	822117	808811	<0.2	0.8	<0.2	0.8						
					IM10	Fine	Moderate	16:26	7.6	Surface	1.0	0.5	290	25.1	25.1	8.2	8.2	32.9	32.9	106.3	106.1	7.3	7.3	1.1	1.1	5	88	88	88	822387	809817	<0.2	0.7	<0.2	0.8
											1.0	0.5	288	25.1	8.2	8.2	32.9	32.9	105.8	105.8	7.2	7.2	1.2	1.2	6	89	89	89	822387	809817	<0.2	0.8	<0.2	0.8	
											3.8	0.3	288	24.9	8.2	8.2	33.2	33.2	103.7	103.7	7.1	7.1	1.7	1.7	7	89	89	89	822387	809817	<0.2	0.8	<0.2	0.8	
Middle	3.8	0.3	294	24.9						8.2	8.2	33.2	33.2	103.6	103.6	7.1	7.1	1.7	1.7	6	89	89	89	822387	809817	<0.2	0.8	<0.2	0.8						
	6.6	0.3	272	24.9						8.2	8.2	33.1	33.1	103.9	103.8	7.1	7.1	2.2	2.2	8	91	91	91	822387	809817	<0.2	0.8	<0.2	0.8						
	6.6	0.3	275	24.8						8.2	8.2	33.2	33.1	103.7	103.7	7.1	7.1	2.3	2.3	8	91	91	91	822387	809817	<0.2	0.8	<0.2	0.8						
IM11	Fine	Moderate	16:35	8.2						Surface	1.0	0.1	285	25.1	25.1	8.2	8.2	32.9	32.9	106.9	106.7	7.3	7.3	1.6	1.6	3	89	89	89	822079	811476	<0.2	0.8	<0.2	0.7
											1.0	0.1	286	25.0	8.2	8.2	32.9	32.9	106.5	106.5	7.3	7.3	1.8	1.8	4	89	89	89	822079	811476	<0.2	0.8	<0.2	0.7	
											4.1	0.2	248	25.0	8.2	8.2	32.9	32.9	104.8	104.8	7.2	7.2	3.1	3.1	4	90	90	90	822079	811476	<0.2	0.9	<0.2	0.9	
					Middle	4.1	0.2	259	25.0	8.2	8.2	32.9	32.9	104.7	104.7	7.2	7.2	3.2	3.2	5	90	90	90	822079	811476	<0.2	0.9	<0.2	0.9						
						7.2	0.2	289	25.0	8.2	8.2	32.9	32.9	105.1	105.2	7.2	7.2	3.1	3.1	5	91	91	91	822079	811476	<0.2	0.9	<0.2	0.9						
						7.2	0.2	271	25.0	8.2	8.2	32.9	32.9	105.2	105.2	7.2	7.2	2.9	2.9	5	91	91	91	822079	811476	<0.2	0.8	<0.2	0.8						
					IM12	Fine	Moderate	16:40	8.5	Surface	1.0	0.1	254	25.0	25.0	8.2	8.2	32.9	32.9	106.5	106.5	7.3	7.3	2.2	2.2	4	88	88	88	821453	812046	<0.2	0.8	<0.2	0.7
											1.0	0.1	255	25.0	8.2	8.2	32.9	32.9	106.4	106.4	7.3	7.3	2.3	2.3	4	88	88	88	821453	812046	<0.2	0.8	<0.2	0.7	
											4.3	0.1	247	24.9	8.2	8.2	33.0	33.0	104.8	104.8	7.2	7.2	3.0	3.0	6	89	89	89	821453	812046	<0.2	0.8	<0.2	0.8	
Middle	4.3	0.1	264	24.9						8.2	8.2	33.0	33.0	104.7	104.7	7.2	7.2	3.2	3.2	7	89	89	89	821453	812046	<0.2	0.8	<0.2	0.8						
	7.5	0.2	253	24.9						8.2	8.2	33.0	33.0	104.4	104.4	7.2	7.2	3.6	3.6	8	90	90	90	821453	812046	<0.2	0.8	<0.2	0.8						
	7.5	0.2	262	24.9						8.2	8.2	33.0	33.0	104.4	104.4	7.2	7.2	3.5	3.5	8	90	90	90	821453	812046	<0.2	0.7	<0.2	0.8						
SR1A	Fine	Calm	16:55	4.9						Surface	1.0	-	-	25.0	25.0	8.2	8.2	32.9	32.9	106.8	106.8	7.3	7.3	2.3	2.3	6	-	-	-	819972	812656	-	-	-	-
											1.0	-	-	25.0	8.2	8.2	32.9	32.9	106.8	106.8	7.3	7.3	2.5	2.5	6	-	-	-	819972	812656	-	-	-	-	
											2.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					Middle	2.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	819972	812656	-	-	-	-			
						3.9	-	-	25.0	8.2	8.2	32.9	32.9	106.8	106.9	7.3	7.3	2.3	2.3	9	-	-	-	-	-	-	819972	812656	-	-	-	-			
						3.9	-	-	25.0	8.2	8.2	32.9	32.9	106.9	106.9	7.3	7.3	2.3	2.3	8	-	-	-	-	-	-	819972	812656	-	-	-	-			
					SR2	Fine	Moderate	17:07	4.5	Surface	1.0	0.2	226	25.5	25.5	8.2	8.2	33.2	33.2	100.4	100.3	6.8	6.8	2.1	2.1	4	88	88	88	821443	814153	<0.2	0.8	<0.2	0.8
											1.0	0.2	227	25.5	8.2	8.2	33.2	33.2	100.2	100.2	6.8	6.8	2.2	2.2	3	88	88	88	821443	814153	<0.2	0.8	<0.2	0.8	
											-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	821443	814153	<0.2	0.8
Middle	-	-	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	821443	814153	<0.2	0.8	<0.2	0.8			
	3.5	0.1	218	25.5						8.2	8.2	33.2	33.2	99.8	99.9	6.8	6.8	3.0	3.0	6	89	89	89	821443	814153	<0.2	0.7	<0.2	0.8						
	3.5	0.1	219	25.5						8.2	8.2	33.2	33.2	99.9	99.9	6.8	6.8	3.1	3.1	4	90	90	90	821443	814153	<0.2	0.8	<0.2	0.7						
SR3	Fine	Moderate	16:08	9.0						Surface	1.0	0.4	42	25.1	25.1	8.2	8.2	33.0	33.0	105.3	105.2	7.2	7.2	1.1	1.1	2	-	-	-	822162	807575	-	-	-	-
											1.0	0.4	43	25.0	8.2	8.2	33.0	33.0	105.1	105.1	7.2	7.2	1.1	1.1	2	-	-	-	822162	807575	-	-	-	-	
											4.5	0.3	37	24.9	8.2	8.2	33.4	33.4	103.7	103.6	7.1	7.1	1.5	1.5	3	-	-	-	822162	807575	-	-	-	-	
					Middle	4.5	0.4	39	24.9	8.2	8.2	33.4	33.4	103.5	103.5	7.1	7.1	1.6	1.6	3	-	-	-	822162	807575	-	-	-	-						
						8.0	0.3	41	24.8	8.2	8.2	33.7	33.7	103.1	103.2	7.1	7.1	1.8	1.8	4	-	-	-	822162	807575	-	-	-	-						
						8.0	0.3	45	24.8	8.2	8.2	33.7	33.7	103.2	103.2	7.1	7.1	1.8	1.8	2	-	-	-	822162	807575	-	-	-	-						
					SR4A	Fine	Calm	17:10	8.9	Surface	1.0	0.1	234	25.1	25.1	8.2	8.2	32.8	32.8	102.2	102.2	7.0	7.0	8.6	8.6	3	-	-	-	817201	807796	-	-	-	-
											1.0	0.1	236	25.1	8.2	8.2	32.8	32.8	102.1	102.1	7.0	7.0	8.6	8.6	3	-	-	-	817201	807796	-	-	-	-	
											4.5	0.2	287	24.9	8.3	8.3	33.0	33.0	98.9	98.8	6.8	6.8	3.2	3.2	3	-	-	-	817201	807796	-	-	-	-	
Middle	4.5	0.3	294	24.9						8.3	8.3	33.0	33.0	98.7	98.7	6.8	6.8	3.6	3.6	4	-	-	-	817201	807796	-	-	-	-						
	7.9	0.3	268	24.9						8.2	8.2	33.0	33.0	98.0	98.1	6.7	6.7	6.8	6.8	4	-	-	-	817201	807796	-	-	-	-						
	7.9	0.3	270	24.9						8.2	8.2	33.0	33.0	98.1	98.1	6.7	6.7	7.6	7.6	4	-	-	-	817201	807796	-	-	-	-						
SR5A	Fine	Moderate	17:40	4.6						Surface	1.0	0.2	289	25.0	25.0	8.2	8.2	31.7	31.7	111.6	110.9	7.7	7.7	2.5	2.5	4	-</								



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

Water Quality Monitoring

Water Quality Monitoring Results on 12 November 19 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	DA
C1	Cloudy	Rough	12:23	8.8	Surface	1.0	0.3	138	25.0	25.0	8.3	8.3	34.0	34.0	102.5	102.5	7.0	7.0	9.5	7.0	7	8	85	89	89	89	815639	804268	<0.2	0.5	<0.2	0.6			
						1.0	0.3	133	25.0	8.3	8.3	34.0	34.0	102.4	102.4	7.0	7.0	9.5	7.0	7.0	7.0	8	8	87	89	89	89	815639	804268	<0.2	0.5	<0.2	0.6		
						4.4	0.2	148	25.0	8.3	8.3	34.1	34.1	102.1	102.1	7.0	7.0	12.2	7.0	12.4	7.0	8	8	89	89	89	89	815639	804268	<0.2	0.5	<0.2	0.6		
					Middle	4.4	0.2	156	25.0	8.3	8.3	34.1	34.1	102.1	102.1	7.0	7.0	12.4	7.0	12.4	7.0	8	8	89	89	89	89	815639	804268	<0.2	0.5	<0.2	0.6		
						7.8	0.2	130	25.0	8.3	8.3	34.1	34.1	102.1	102.1	7.0	7.0	13.2	7.0	13.2	7.0	8	8	90	90	90	90	815639	804268	<0.2	0.5	<0.2	0.6		
						7.8	0.2	118	25.0	8.3	8.3	34.1	34.1	102.1	102.1	7.0	7.0	13.3	7.0	13.3	7.0	9	9	91	91	91	91	815639	804268	<0.2	0.5	<0.2	0.6		
C2	Cloudy	Rough	13:35	8.3	Surface	1.0	0.4	140	24.9	24.9	8.1	8.1	31.3	31.3	112.7	112.7	7.8	7.8	2.8	7.8	4	5	85	88	88	88	825705	806930	<0.2	0.5	<0.2	0.6			
						1.0	0.4	132	24.9	24.9	8.1	8.1	31.3	31.3	112.6	112.6	7.8	7.8	2.9	7.8	5	5	85	88	88	88	825705	806930	<0.2	0.5	<0.2	0.6			
						4.2	0.4	182	24.8	24.8	8.1	8.1	32.3	32.3	112.4	112.4	7.8	7.8	6.1	7.8	4	4	88	88	88	88	825705	806930	<0.2	0.5	<0.2	0.6			
					Middle	4.2	0.4	162	24.8	24.8	8.1	8.1	32.3	32.3	112.3	112.3	7.8	7.8	6.1	7.8	4	4	87	87	87	87	825705	806930	<0.2	0.5	<0.2	0.6			
						7.3	0.4	141	24.8	24.8	8.1	8.1	32.7	32.7	111.0	111.0	7.7	7.7	9.7	7.7	6	6	91	91	91	91	825705	806930	<0.2	0.5	<0.2	0.6			
						7.3	0.4	148	24.8	24.8	8.1	8.1	32.7	32.7	110.9	110.9	7.6	7.6	9.8	7.6	6	6	91	91	91	91	825705	806930	<0.2	0.5	<0.2	0.6			
C3	Cloudy	Rough	11:31	11.2	Surface	1.0	0.2	111	25.3	25.3	8.2	8.2	32.8	32.8	104.7	104.7	7.1	7.1	3.1	7.1	5	6	83	87	87	87	822104	817803	<0.2	0.5	<0.2	0.6			
						1.0	0.2	114	25.3	25.3	8.2	8.2	32.8	32.8	104.7	104.7	7.1	7.1	3.1	7.1	5	5	83	87	87	87	822104	817803	<0.2	0.5	<0.2	0.6			
						5.6	0.1	126	25.3	25.3	8.2	8.2	32.8	32.8	104.3	104.3	7.1	7.1	3.0	7.1	5	5	87	88	88	88	822104	817803	<0.2	0.5	<0.2	0.6			
					Middle	5.6	0.1	125	25.3	25.3	8.2	8.2	32.8	32.8	104.3	104.3	7.1	7.1	3.0	7.1	6	6	88	88	88	88	822104	817803	<0.2	0.5	<0.2	0.6			
						10.2	0.2	155	25.3	25.3	8.2	8.2	32.8	32.8	104.0	104.0	7.1	7.1	2.8	7.1	8	8	91	91	91	91	822104	817803	<0.2	0.5	<0.2	0.6			
						10.2	0.2	148	25.3	25.3	8.3	8.3	32.8	32.8	103.9	103.9	7.1	7.1	2.9	7.1	7	7	92	92	92	92	822104	817803	<0.2	0.5	<0.2	0.6			
IM1	Cloudy	Rough	12:43	5.6	Surface	1.0	0.2	211	24.6	24.7	8.3	8.3	33.9	33.9	109.2	109.3	7.5	7.5	5.9	7.5	6	7	85	86	86	86	817930	807113	<0.2	0.5	<0.2	0.6			
						1.0	0.2	200	24.7	24.7	8.3	8.3	33.9	33.9	109.3	109.3	7.5	7.5	5.9	7.5	7	7	86	86	86	86	817930	807113	<0.2	0.5	<0.2	0.6			
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					Middle	4.6	0.2	168	24.6	24.6	8.3	8.3	33.9	33.9	107.6	107.4	7.4	7.4	5.4	7.4	7	7	87	87	87	87	817930	807113	<0.2	0.5	<0.2	0.6			
						4.6	0.2	173	24.6	24.6	8.3	8.3	33.9	33.9	107.1	107.1	7.4	7.4	5.5	7.4	8	8	88	88	88	88	817930	807113	<0.2	0.5	<0.2	0.6			
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IM2	Cloudy	Rough	12:50	7.6	Surface	1.0	0.2	154	24.7	24.7	8.3	8.3	33.8	33.8	107.0	107.0	7.3	7.3	6.1	7.3	8	8	85	86	86	86	818158	806187	<0.2	0.5	<0.2	0.6			
						1.0	0.2	155	24.7	24.7	8.3	8.3	33.8	33.8	106.9	107.0	7.3	7.3	6.1	7.3	8	8	86	86	86	86	818158	806187	<0.2	0.5	<0.2	0.6			
						3.8	0.1	132	24.7	24.7	8.3	8.3	33.8	33.8	106.5	106.4	7.3	7.3	5.2	7.3	9	9	90	90	90	90	818158	806187	<0.2	0.5	<0.2	0.6			
					Middle	3.8	0.1	149	24.7	24.7	8.3	8.3	33.8	33.8	106.3	106.3	7.3	7.3	5.3	7.3	10	10	88	88	88	88	818158	806187	<0.2	0.5	<0.2	0.6			
						6.6	0.1	129	24.7	24.7	8.3	8.3	33.8	33.8	105.6	105.5	7.2	7.2	5.2	7.2	10	10	88	88	88	88	818158	806187	<0.2	0.5	<0.2	0.6			
						6.6	0.1	122	24.7	24.7	8.3	8.3	33.8	33.8	105.4	105.5	7.2	7.2	5.4	7.2	10	10	90	90	90	90	818158	806187	<0.2	0.5	<0.2	0.6			
IM3	Cloudy	Rough	13:00	7.7	Surface	1.0	0.2	188	24.8	24.8	8.3	8.3	33.8	33.8	105.4	105.4	7.2	7.2	7.1	7.2	8	8	87	86	86	86	818771	805583	<0.2	0.5	<0.2	0.6			
						1.0	0.2	186	24.8	24.8	8.3	8.3	33.8	33.8	105.3	105.4	7.2	7.2	7.4	7.2	7.4	7.2	8	8	86	86	86	86	818771	805583	<0.2	0.5	<0.2	0.6	
						3.9	0.2	208	24.8	24.8	8.3	8.3	33.8	33.8	105.0	104.9	7.2	7.2	7.3	7.2	7.3	7.2	9	9	89	89	89	89	818771	805583	<0.2	0.5	<0.2	0.6	
					Middle	3.9	0.2	210	24.8	24.8	8.3	8.3	33.8	33.8	104.8	104.8	7.2	7.2	7.3	7.2	7.3	7.2	9	9	89	89	89	89	818771	805583	<0.2	0.5	<0.2	0.6	
						6.7	0.2	211	24.8	24.8	8.3	8.3	33.8	33.8	104.1	104.1	7.1	7.1	6.6	7.1	6.6	7.1	10	10	89	89	89	89	818771	805583	<0.2	0.5	<0.2	0.6	
						6.7	0.3	194	24.8	24.8	8.3	8.3	33.8	33.8	104.0	104.1	7.1	7.1	6.8	7.1	6.8	7.1	9	9	90	90	90	90	818771	805583	<0.2	0.5	<0.2	0.6	
IM4	Cloudy	Rough	13:09	7.5	Surface	1.0	0.3	154	24.8	24.8	8.3	8.3	33.9	33.9	105.4	105.4	7.2	7.2	8.2	7.2	8	8	85	86	86	86	819742	804593	<0.2	0.5	<0.2	0.6			
						1.0	0.4	155	24.8	24.8	8.3	8.3	33.9	33.9	105.4	105.4	7.2	7.2	8.2	7.2	8.2	7.2	8	8	86	86	86	86	819742	804593	<0.2	0.5	<0.2	0.6	
						3.8	0.3	132	24.8	24.8	8.3	8.3	33.9	33.9	105.3	105.3	7.2	7.2	7.3	7.2	7.3	7.2	9	9	88	88	88	88	819742	804593	<0.2	0.5	<0.2	0.6	
					Middle	3.8	0.3	133	24.7	24.7	8.3	8.3	33.9	33.9	105.2	105.3	7.2	7.2	7.1	7.2	7.1	7.2	9	9	88	88	88	88	819742	804593	<0.2	0.5	<0.2	0.6	
						6.5	0.3	154	24.7	24.7	8.3	8.3	33.8	33.8	104.4	104.4	7.2	7.2	7.2	7.2	7.2	7.2	10	10	91	91	91	91	819742	804593	<0.2	0.5	<0.2	0.6	
						6.5	0.3	168	24.7	24.7	8.3	8.3	33.8	33.8	104.3	104.3	7.2	7.2	7.4	7.2	7.4	7.2	11	11	90	90	90	90	819742	8					

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

Water Quality Monitoring Results on 12 November 19 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	Rough	12:37	8.2	Surface	1.0	0.1	169	25.0	25.0	8.1	8.1	31.2	31.2	113.3	113.3	7.9	7.9	2.6	6	83	87	87	87	822106	808817	<0.2	0.9	<0.2	0.9						
						1.0	0.1	175	25.0	8.1	8.1	31.2	31.2	113.3	113.3	7.9	7.9	2.6	7	83	87	87	87	822106	808817	<0.2	0.9	<0.2	0.9							
						4.1	0.1	178	24.9	8.1	8.1	31.5	31.5	110.8	110.9	7.7	7.7	2.8	5	87	87	87	87	822106	808817	<0.2	0.9	<0.2	0.9							
					Middle	4.1	0.1	177	24.9	8.1	8.1	31.5	31.5	110.9	110.9	7.7	7.7	2.8	6	88	87	87	87	822106	808817	<0.2	0.9	<0.2	0.9							
						7.2	0.3	187	24.8	8.1	8.1	32.1	32.1	112.3	112.3	7.8	7.8	3.8	6	91	87	87	87	822106	808817	<0.2	0.9	<0.2	0.9							
						7.2	0.3	191	24.8	8.1	8.1	32.1	32.1	112.3	112.3	7.8	7.8	3.8	6	92	87	87	87	822106	808817	<0.2	0.9	<0.2	0.9							
					IM10	Cloudy	Rough	12:30	7.8	Surface	1.0	0.2	172	24.9	24.9	8.1	8.1	32.4	32.4	119.5	119.5	8.2	8.2	5.1	9	83	88	88	88	822377	809773	<0.2	0.8	<0.2	0.8	
											1.0	0.2	184	24.9	8.1	8.1	32.4	32.4	119.4	119.4	8.2	8.2	5.1	10	83	88	88	88	822377	809773	<0.2	0.8	<0.2	0.8		
											3.9	0.2	134	24.9	8.1	8.1	32.4	32.4	117.3	117.3	8.1	8.1	6.9	9	88	88	88	88	822377	809773	<0.2	0.8	<0.2	0.8		
Middle	3.9	0.2	139	24.9						8.1	8.1	32.4	32.4	117.2	117.2	8.1	8.1	6.9	10	89	88	88	88	822377	809773	<0.2	0.8	<0.2	0.8							
	6.8	0.1	176	24.8						8.1	8.1	32.4	32.4	114.5	114.4	7.9	7.9	7.8	11	91	88	88	88	822377	809773	<0.2	0.8	<0.2	0.8							
	6.8	0.1	198	24.8						8.1	8.1	32.4	32.4	114.3	114.3	7.9	7.9	7.9	12	92	88	88	88	822377	809773	<0.2	0.8	<0.2	0.8							
IM11	Cloudy	Rough	12:25	7.9						Surface	1.0	0.2	170	24.9	24.9	8.1	8.1	32.5	32.5	115.8	115.8	8.0	8.0	6.2	8	84	87	87	87	822078	811460	<0.2	1.0	<0.2	1.0	
											1.0	0.2	162	24.9	8.1	8.1	32.5	32.5	115.7	115.7	8.0	8.0	6.2	8	85	87	87	87	822078	811460	<0.2	1.0	<0.2	1.0		
											4.0	0.1	169	24.9	8.1	8.1	32.5	32.5	115.2	115.2	7.9	7.9	9.0	8	87	87	87	87	822078	811460	<0.2	1.0	<0.2	1.0		
					Middle	4.0	0.1	173	24.9	8.1	8.1	32.5	32.5	115.2	115.2	7.9	7.9	9.0	9	85	87	87	87	822078	811460	<0.2	1.0	<0.2	1.0							
						6.9	0.2	167	24.9	8.1	8.1	32.5	32.5	115.0	115.0	7.9	7.9	10.6	8	91	87	87	87	822078	811460	<0.2	1.0	<0.2	1.0							
						6.9	0.2	189	24.9	8.1	8.1	32.5	32.5	115.0	115.0	7.9	7.9	10.6	9	91	87	87	87	822078	811460	<0.2	1.0	<0.2	1.0							
					IM12	Cloudy	Rough	12:20	7.2	Surface	1.0	0.3	143	24.9	24.9	8.1	8.1	32.5	32.5	115.2	115.2	7.9	7.9	6.2	8	83	87	87	87	821471	812045	<0.2	0.9	<0.2	0.9	
											1.0	0.3	152	24.9	8.1	8.1	32.5	32.5	115.1	115.1	7.9	7.9	6.3	10	84	87	87	87	821471	812045	<0.2	0.9	<0.2	0.9		
											3.6	0.3	140	24.9	8.1	8.1	32.5	32.5	114.1	114.1	7.9	7.9	6.6	10	87	87	87	87	821471	812045	<0.2	0.9	<0.2	0.9		
Middle	3.6	0.3	144	24.9						8.1	8.1	32.5	32.5	114.0	114.0	7.8	7.8	6.7	11	88	87	87	87	821471	812045	<0.2	0.9	<0.2	0.9							
	6.2	0.3	132	24.9						8.1	8.1	32.5	32.5	112.6	112.5	7.8	7.8	7.8	11	91	87	87	87	821471	812045	<0.2	0.9	<0.2	0.9							
	6.2	0.3	149	24.9						8.1	8.1	32.5	32.5	112.3	112.3	7.7	7.8	7.8	10	92	87	87	87	821471	812045	<0.2	0.9	<0.2	0.9							
SR1A	Cloudy	Rough	12:01	5.1						Surface	1.0	-	-	25.2	25.2	8.0	8.0	32.3	32.3	114.9	114.9	7.9	7.9	8.6	5	-	-	-	-	819973	812661	-	-	-	-	
											1.0	-	-	25.2	25.2	8.0	8.0	32.3	32.3	114.8	114.8	7.9	7.9	8.6	5	-	-	-	-	819973	812661	-	-	-	-	
											2.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					Middle	2.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	819973	812661	-	-	-	-			
						4.1	-	-	25.0	25.0	8.0	8.0	32.3	32.3	112.1	112.0	7.7	7.7	3.7	6	-	-	-	-	-	-	819973	812661	-	-	-	-				
						4.1	-	-	25.0	25.0	8.0	8.0	32.3	32.3	111.8	111.8	7.7	7.7	3.8	7	-	-	-	-	-	-	819973	812661	-	-	-	-				
					SR2	Cloudy	Rough	11:50	4.2	Surface	1.0	0.0	163	25.0	25.0	8.0	8.0	32.5	32.5	111.9	111.8	7.7	7.7	5.1	9	83	84	84	84	821473	814176	<0.2	1.0	<0.2	1.0	
											1.0	0.0	176	25.0	8.0	8.0	32.5	32.5	111.6	111.6	7.7	7.7	5.1	9	84	84	84	84	821473	814176	<0.2	1.0	<0.2	1.0		
											-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Middle	-	-	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	821473	814176	<0.2	1.0	<0.2	1.0			
	3.2	0.1	133	25.0						8.0	8.0	32.5	32.5	110.3	110.2	7.6	7.6	5.2	9	92	84	84	84	84	821473	814176	<0.2	1.0	<0.2	1.0						
	3.2	0.1	132	25.0						8.0	8.0	32.5	32.5	110.0	110.0	7.6	7.6	5.3	10	92	84	84	84	84	821473	814176	<0.2	1.0	<0.2	1.0						
SR3	Cloudy	Rough	12:58	8.0						Surface	1.0	0.1	186	24.9	24.9	8.1	8.1	31.4	31.4	113.3	113.3	7.8	7.8	2.9	4	-	-	-	-	822148	807566	-	-	-	-	
											1.0	0.1	188	24.9	8.1	8.1	31.4	31.4	113.3	113.3	7.8	7.8	3.0	4	-	-	-	-	-	-	822148	807566	-	-	-	-
											4.0	0.3	167	24.8	8.1	8.1	32.2	32.2	111.7	111.7	7.7	7.7	4.3	5	-	-	-	-	-	-	822148	807566	-	-	-	-
					Middle	4.0	0.3	170	24.8	8.1	8.1	32.3	32.2	111.7	111.7	7.7	7.7	4.3	5	-	-	-	-	-	-	-	822148	807566	-	-	-	-				
						7.0	0.3	172	24.8	8.1	8.1	32.7	32.7	109.5	109.5	7.5	7.5	6.5	6	-	-	-	-	-	-	-	822148	807566	-	-	-	-				
						7.0	0.4	173	24.8	8.1	8.1	32.7	32.7	109.4	109.4	7.5	7.5	6.6	6	-	-	-	-	-	-	-	822148	807566	-	-	-	-				
					SR4A	Cloudy	Moderate	11:58	8.4	Surface	1.0	0.2	75	24.8	24.8	8.3	8.3	33.7	33.7	110.9	110.9	7.6	7.6	4.8	8	-	-	-	-	817183	807806	-	-	-	-	
											1.0	0.2	80	24.8	8.3	8.3	33.7	33.7	110.9	110.9	7.6	7.6	4.6	8	-	-	-	-	-	-	817183	807806	-	-	-	-
											4.2	0.3	87	24.8	8.3	8.3	33.7	33.7	110.4	110.4	7.6	7.6	5.0	8	-	-	-	-	-	-	817183	807806	-	-	-	-
Middle	4.2	0.3	95	24.8						8.3	8.3	33.7	33.7	110.3	110.3	7.6	7.6	5.1	9	-	-	-	-	-	-	-	817183	807806	-	-	-	-				
	7.4	0.2	60	24.8						8.3	8.3	33.8	33.8	110.0	110.0	7.5	7.5	5.8	9	-	-	-	-	-	-	-	817183	807806	-	-	-	-				
	7.4	0.2	65	24.8						8.3	8.3	33.8	33.8	110.0	110.0	7.5	7.5	5.8	9	-	-	-	-	-	-	-	817183	807806	-	-	-	-				
SR5A	Cloudy	Moderate	11:43	4.4																																

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

Water Quality Monitoring

Water Quality Monitoring Results on 12 November 19 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	17:50	8.6	Surface	1.0	0.4	39	25.1	25.1	8.3	8.3	34.1	34.0	104.4	104.4	7.1	7.1	8.6	12	13	85	88	88	815635	804255	<0.2	0.7	<0.2	0.6								
						1.0	0.4	42	25.1	8.3	8.3	34.0	34.0	104.4	104.4	7.1	7.1	8.3	12	13	87	88	<0.2				0.6											
						4.3	0.4	38	25.1	8.3	8.3	34.1	34.1	104.1	104.0	7.1	7.1	8.5	13	13	88	88	<0.2				0.7											
					Middle	4.3	0.4	40	25.1	8.3	8.3	34.1	34.1	103.9	103.9	7.1	7.1	8.6	14	14	89	89	<0.2				0.6											
						7.6	0.3	40	25.1	8.3	8.3	34.0	34.0	103.1	103.1	7.0	7.0	7.4	13	13	90	90	<0.2				0.6											
						7.6	0.3	41	25.1	8.3	8.3	34.0	34.0	103.0	103.0	7.0	7.0	7.2	14	14	91	91	<0.2				0.6											
					C2	Fine	Rough	16:46	8.3	Surface	1.0	0.4	332	24.9	24.9	8.1	8.1	32.2	32.2	117.2	117.2	8.1	8.1				5.5	10	10	85	85	88	825664	806947	<0.2	1.1	<0.2	1.1
											1.0	0.4	340	24.9	8.1	8.1	32.2	32.2	117.1	117.1	8.1	8.1	5.6				8	8	85	85	<0.2				1.2			
											4.2	0.4	9	24.9	8.1	8.1	32.2	32.2	114.7	114.7	7.9	7.9	7.0				7	7	87	87	<0.2				1.1			
Middle	4.2	0.4	9	24.9						8.1	8.1	32.2	32.2	114.6	114.6	7.9	7.9	7.1	10	10	88	88	<0.2	1.0														
	7.3	0.3	10	24.8						8.1	8.1	32.3	32.3	113.9	113.9	7.9	7.9	7.3	10	10	91	91	<0.2	1.0														
	7.3	0.4	10	24.8						8.1	8.1	32.3	32.3	113.9	113.9	7.9	7.9	7.3	10	10	92	92	<0.2	0.9														
C3	Fine	Rough	18:48	10.8						Surface	1.0	0.6	290	25.2	25.2	8.1	8.1	32.6	32.6	118.8	118.8	8.1	8.1	2.2	5	5	84	84	88	822123	817781				<0.2	1.0	<0.2	1.1
											1.0	0.6	314	25.2	8.1	8.1	32.6	32.6	118.5	118.5	8.1	8.1	2.2	4	4	84	84	<0.2							1.1			
											5.4	0.6	286	25.3	8.1	8.1	32.8	32.8	112.4	112.4	7.7	7.7	2.1	7	7	88	88	<0.2							1.1			
					Middle	5.4	0.6	303	25.3	8.1	8.1	32.8	32.8	112.3	112.3	7.7	7.7	2.1	7	7	88	88	<0.2	0.9														
						9.8	0.5	301	25.3	8.1	8.1	32.8	32.8	111.1	111.1	7.6	7.6	2.2	7	7	91	91	<0.2	1.0														
						9.8	0.5	320	25.3	8.1	8.1	32.8	32.8	111.1	111.1	7.6	7.6	2.2	8	8	91	91	<0.2	0.9														
					IM1	Cloudy	Rough	17:30	5.8	Surface	1.0	0.2	342	24.8	24.8	8.3	8.3	33.9	33.9	110.1	109.9	7.5	7.5	7.0	12	13	85	84				87	817935	807109	<0.2	0.6	<0.2	0.6
											1.0	0.2	315	24.8	8.3	8.3	33.9	33.9	109.6	109.6	7.5	7.5	7.0	13	13	84	84	<0.2							0.6			
											-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							-	-	-	-
Middle	4.8	0.2	28	24.8						8.3	8.3	33.9	33.9	108.6	108.5	7.4	7.4	8.2	13	13	88	88	<0.2	0.7														
	4.8	0.2	30	24.8						8.3	8.3	33.9	33.9	108.4	108.4	7.4	7.4	8.2	12	12	90	90	<0.2	0.8														
	-	-	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
IM2	Cloudy	Rough	17:24	7.7						Surface	1.0	0.2	349	25.0	25.0	8.3	8.3	33.9	33.9	106.8	106.8	7.3	7.3	5.6	9	10	85	85	88	818156	806151				<0.2	0.6	<0.2	0.7
											1.0	0.3	352	24.9	8.3	8.3	33.9	33.9	106.7	106.7	7.3	7.3	5.6	10	10	85	85	<0.2							0.7			
											3.9	0.3	5	24.9	8.3	8.3	33.8	33.8	106.2	106.2	7.3	7.3	6.1	9	9	88	88	<0.2							0.7			
					Middle	3.9	0.3	5	24.9	8.3	8.3	33.8	33.8	106.1	106.1	7.3	7.3	6.4	9	9	89	89	<0.2	0.6														
						6.7	0.2	26	24.9	8.3	8.3	33.8	33.8	105.5	105.5	7.2	7.2	7.5	10	10	90	90	<0.2	0.7														
						6.7	0.2	26	24.9	8.3	8.3	33.8	33.8	105.4	105.4	7.2	7.2	7.5	10	10	91	91	<0.2	0.7														
					IM3	Cloudy	Rough	17:19	7.6	Surface	1.0	0.3	351	24.9	24.9	8.3	8.3	33.8	33.8	104.6	104.6	7.1	7.1	8.3	10	10	84	84				88	818797	805615	<0.2	0.7	<0.2	0.7
											1.0	0.3	323	24.9	8.3	8.3	33.8	33.8	104.5	104.5	7.1	7.1	8.7	10	10	86	86	<0.2							0.7			
											3.8	0.3	342	24.9	8.3	8.3	33.9	33.9	105.3	105.3	7.2	7.2	10.8	9	9	88	88	<0.2							0.6			
Middle	3.8	0.4	315	24.9						8.3	8.3	33.9	33.9	105.2	105.2	7.2	7.2	10.8	9	9	90	90	<0.2	0.6														
	6.6	0.3	350	24.9						8.3	8.3	33.8	33.8	104.6	104.6	7.1	7.1	7.7	9	9	90	90	<0.2	0.6														
	6.6	0.4	357	24.9						8.3	8.3	33.7	33.7	104.5	104.5	7.1	7.1	7.7	8	8	92	92	<0.2	0.6														
IM4	Cloudy	Rough	17:11	7.4						Surface	1.0	0.5	348	25.0	25.0	8.3	8.3	33.8	33.8	105.7	105.7	7.2	7.2	5.4	7	7	83	85	87	819734	804600				<0.2	0.6	<0.2	0.6
											1.0	0.5	359	25.0	8.3	8.3	33.8	33.8	105.7	105.7	7.2	7.2	5.4	7	7	85	85	<0.2							0.6			
											3.7	0.5	354	25.0	8.3	8.3	33.7	33.6	105.6	105.6	7.2	7.2	5.2	9	9	88	88	<0.2							0.6			
					Middle	3.7	0.5	326	25.0	8.3	8.3	33.6	33.6	105.5	105.5	7.2	7.2	5.2	11	11	88	88	<0.2	0.6														
						6.4	0.4	359	25.0	8.3	8.3	33.8	33.8	104.4	104.4	7.1	7.1	8.6	10	10	89	89	<0.2	0.6														
						6.4	0.4	330	25.0	8.3	8.3	33.8	33.8	104.3	104.3	7.1	7.1	8.6	12	12	91	91	<0.2	0.6														
					IM5	Cloudy	Rough	17:04	7.8	Surface	1.0	0.6	15	24.9	24.9	8.3	8.3	33.5	33.5	107.1	107.1	7.3	7.3	10.4	10	10	84	84				87	820739	804857	<0.2	0.6	<0.2	0.5
											1.0	0.7	15	24.9	8.3	8.3	33.5	33.5	107.1	107.1	7.3	7.3	10.4	12	12	84	84	<0.2							0.5			
											3.9	0.6	18	24.8	8.3	8.3	33.6	33.6	106.5	106.4	7.3	7.3	8.6	11	11	87	87	<0.2							0.6			
Middle	3.9	0.6	18	24.8						8.3	8.3	33.6	33.6	106.3	106.3	7.3	7.3	8.3	12	12	88	88	<0.2	0.6														
	6.8	0.5	17	24.8						8.3	8.3	33.7	33.7	105.5	105.4	7.2	7.2	7.1	10	10	89	89	<0.2	0.5														
	6.8	0.5	17	24.8						8.3	8.3	33.7	33.7	105.3	105.3	7.2	7.2	7.1	11	11	91	91	<0.2	0.5														
IM6	Cloudy	Rough	17:01	7.6						Surface	1.0	0.3	128	24.9	24.9	8.3	8.3	33.5	33.5	111.2	111.2	7.6	7.6	11.3	6	6	85	85	87	821060	805840				<0.2	0.8	<0.2	0.8
											1.0	0.3	136	24.9	8.3	8.3	33.4	33.4	111.1	111.1	7.6	7.6	11.3	6	6	85	85	<0.2							0.8			
											3.8	0.3	130	24.9	8.3	8.3	33.0	33.0	110.0	109.9	7.6	7.6	3.5	7	7	87	87	<0.2							0.9			
					Middle	3.8	0.3	138	24.9	8.3	8.3	33.0	33.0	109.7	109.7	7.5	7.5	3.7	8	8	88	88	<0.2	0.7														
						6.6	0.3	105	24.9	8.3	8.3	33.0	32.9	108.1	108.0	7.4	7.4	14.5	8	8	89	89	<0.2	0.8														
						6.6	0.3	105	24.9	8.3	8.3	32.9	32.9	107.8	107.8	7.4	7.4	14.5	7	7	90	90	<0.2	0.7														
					IM7	Cloudy	Rough	16:52	7.9	Surface	1.0	0.0	251	24.8	24.8	8.3	8.3	32.9	32.9	112.4	112.4	7.7	7.7	11.2	5	5	85	85				88	821327	806852	<0.2	0.7	<0.2	0.7
											1.0	0.0	260	24.8	8.3	8.3	32.9	32.9	112.3	112.3	7.7	7.7	11.4	4	4	85	85	<0.2							0.7			
											4.0	0.3	99																									

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

Water Quality Monitoring Results on 12 November 19 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	Fine	Rough	17:25	8.4	Surface	1.0	0.1	97	24.9	24.9	8.1	8.1	31.8	31.8	119.5	119.5	8.3	8.3	2.7	2.7	3	3	85	85	88	822074	808801	<0.2	0.7	<0.2	0.6				
						1.0	0.1	105	24.9	8.1	8.1	31.8	31.8	119.4	119.4	8.3	8.3	2.7	2.7	3	3	85	85	<0.2				0.6							
					Middle	4.2	0.2	43	24.8	8.1	8.1	32.1	32.1	117.0	117.0	8.1	8.1	3.3	3.3	4	4	88	88	<0.2				1.0							
						4.2	0.2	46	24.8	8.1	8.1	32.2	32.2	117.0	117.0	8.1	8.1	3.3	3.3	3	3	88	88	<0.2				0.8							
					Bottom	7.4	0.2	70	24.8	8.1	8.1	32.6	32.6	111.1	111.1	7.7	7.7	8.5	8.5	3	3	91	91	<0.2				0.9							
						7.4	0.2	76	24.8	8.1	8.1	32.6	32.6	111.1	111.1	7.7	7.7	8.5	8.5	4	4	92	92	<0.2				1.1							
IM10	Fine	Rough	17:33	7.8	Surface	1.0	0.2	126	24.9	24.9	8.1	8.1	31.9	31.9	119.3	119.3	8.2	8.2	2.6	2.6	3	3	83	83	88	822371	809789	<0.2	1.1	<0.2	0.9				
						1.0	0.2	137	24.9	8.1	8.1	31.9	31.9	119.2	119.2	8.2	8.2	2.6	2.6	4	4	85	85	<0.2				0.9							
					Middle	3.9	0.1	148	24.8	8.1	8.1	32.1	32.1	114.7	114.5	7.9	7.9	2.9	2.9	4	4	87	87	<0.2				0.9							
						3.9	0.1	159	24.8	8.1	8.1	32.1	32.1	114.3	114.3	7.9	7.9	2.9	2.9	3	3	88	88	<0.2				0.9							
					Bottom	6.8	0.1	108	24.8	8.1	8.1	32.6	32.6	109.7	109.7	7.6	7.6	5.5	5.5	3	3	92	92	<0.2				0.7							
						6.8	0.1	113	24.8	8.1	8.1	32.6	32.6	109.6	109.6	7.6	7.6	5.5	5.5	4	4	92	92	<0.2				0.9							
IM11	Fine	Rough	17:43	7.7	Surface	1.0	0.5	316	25.0	25.0	8.1	8.1	32.3	32.3	119.2	119.2	8.2	8.2	2.9	2.9	4	4	84	84	88	822037	811446	<0.2	0.8	<0.2	0.7				
						1.0	0.5	330	25.0	8.1	8.1	32.3	32.3	119.1	119.1	8.2	8.2	2.9	2.9	4	4	85	85	<0.2				0.7							
					Middle	3.9	0.5	322	25.0	8.1	8.1	32.3	32.3	113.9	113.9	7.8	7.8	3.5	3.5	5	5	87	87	<0.2				0.9							
						3.9	0.5	352	25.0	8.1	8.1	32.3	32.3	113.9	113.9	7.8	7.8	3.5	3.5	4	4	88	88	<0.2				1.1							
					Bottom	6.7	0.4	329	24.9	8.1	8.1	32.4	32.4	112.3	112.2	7.7	7.7	4.2	4.2	4	4	91	91	<0.2				1.0							
						6.7	0.4	349	24.9	8.1	8.1	32.4	32.4	112.1	112.1	7.7	7.7	4.2	4.2	4	4	91	91	<0.2				0.8							
IM12	Fine	Rough	17:48	7.9	Surface	1.0	0.3	223	25.0	25.0	8.1	8.1	32.4	32.4	121.0	120.9	8.3	8.3	2.8	2.8	4	4	85	85	88	821441	812067	<0.2	0.9	<0.2	1.0				
						1.0	0.3	224	25.0	8.1	8.1	32.4	32.4	120.8	120.8	8.3	8.3	2.9	2.9	4	4	85	85	<0.2				1.0							
					Middle	4.0	0.3	243	25.0	8.1	8.1	32.5	32.5	116.3	116.2	8.0	8.0	4.4	4.4	4	4	87	87	<0.2				1.1							
						4.0	0.3	252	25.0	8.1	8.1	32.5	32.5	116.0	116.0	8.0	8.0	4.5	4.5	4	4	88	88	<0.2				0.9							
					Bottom	6.9	0.4	231	24.9	8.1	8.1	32.5	32.5	114.3	114.3	7.9	7.9	5.5	5.5	4	4	91	91	<0.2				0.7							
						6.9	0.4	243	24.9	8.1	8.1	32.5	32.5	114.2	114.2	7.9	7.9	5.5	5.5	4	4	92	92	<0.2				0.8							
SR1A	Fine	Rough	18:15	3.9	Surface	1.0	-	-	25.0	25.0	8.2	8.2	32.4	32.4	123.0	123.0	8.5	8.5	2.5	2.5	4	4	-	-	-	819981	812655	-	-	-	-				
						1.0	-	-	25.0	8.2	8.2	32.4	32.4	122.9	122.9	8.5	8.5	2.5	2.5	4	4	-	-												
					Middle	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-	-	-	-	-	-
						2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-	-	-	-	-	-
					Bottom	2.9	-	-	25.0	25.0	8.2	8.2	32.5	32.5	121.0	121.0	8.3	8.3	2.8	2.8	4	4	-	-				-	-	-	-	-	-	-	-
						2.9	-	-	25.0	8.2	8.2	32.5	32.5	121.0	121.0	8.3	8.3	2.8	2.8	5	5	-	-	-				-	-	-	-	-	-	-	
SR2	Fine	Rough	18:28	4.2	Surface	1.0	0.8	311	24.9	24.9	8.2	8.1	32.4	32.4	122.9	122.9	8.5	8.5	3.1	3.1	4	3	83	84	86	821460	814185	<0.2	0.7	<0.2	0.7				
						1.0	0.8	328	24.9	8.1	8.1	32.4	32.4	122.8	122.8	8.5	8.5	3.1	3.1	3	3	84	84	<0.2				0.7							
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-	-	-	-	-	-
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-	-	-	-	-	-
					Bottom	3.2	0.6	326	24.9	8.1	8.1	32.5	32.5	116.1	115.9	8.0	8.0	5.7	5.8	3	3	88	88	<0.2				1.0							
						3.2	0.6	348	24.9	8.1	8.1	32.5	32.5	115.7	115.7	8.0	8.0	5.8	5.8	4	4	88	88	<0.2				1.2							
SR3	Fine	Rough	17:15	7.9	Surface	1.0	0.4	342	24.9	24.9	8.1	8.1	31.3	31.3	114.5	114.5	7.9	7.9	2.8	2.8	3	3	-	-	-	822123	807589	-	-	-	-				
						1.0	0.4	315	24.9	8.1	8.1	31.3	31.3	114.5	114.5	7.9	7.9	2.9	2.9	3	3	-	-												
					Middle	4.0	0.4	356	24.9	8.1	8.1	31.8	31.8	113.5	113.5	7.9	7.9	3.4	3.4	4	4	-	-	-				-							
						4.0	0.4	356	24.9	8.1	8.1	31.8	31.8	113.5	113.5	7.9	7.9	3.4	3.4	3	3	-	-	-				-							
					Bottom	6.9	0.4	358	24.8	8.1	8.1	32.2	32.2	112.1	112.1	7.7	7.7	4.6	4.6	3	3	-	-	-				-							
						6.9	0.4	329	24.8	8.1	8.1	32.2	32.2	112.0	112.0	7.7	7.7	4.6	4.6	4	4	-	-	-				-							
SR4A	Cloudy	Moderate	18:10	8.5	Surface	1.0	0.5	276	24.8	24.8	8.3	8.3	33.8	33.7	106.3	106.3	7.3	7.3	6.2	6.0	6	7	-	-	-	817178	807805	-	-	-	-				
						1.0	0.5	278	24.8	8.3	8.3	33.7	33.7	106.3	106.3	7.3	7.3	6.0	6.0	7	7	-	-												
					Middle	4.3	0.4	268	24.8	8.3	8.3	33.8	33.8	106.4	106.4	7.3	7.3	7.7	7.1	6	7	-	-	-				-							
						4.3	0.5	270	24.8	8.3	8.3	33.8	33.8	106.3	106.3	7.3	7.3	7.1	7.1	7	7	-	-	-				-							
					Bottom	7.5	0.4	272	24.8	8.3	8.3	33.8	33.8	105.7	105.7	7.2	7.2	7.4	7.4	8	8	-	-	-				-							
						7.5	0.4	278	24.8	8.3	8.3	33.8	33.8	105.6	105.6	7.2	7.2	7.4	7.4	7	7	-	-	-				-							
SR5A	Cloudy	Moderate	18:40	4.6	Surface	1.0	0.1	200	25.0	25.0	8.4	8.4	33.8	33.8	107.9	107.8	7.4	7.4	4.2	4.4	7	7	-	-	-	816602	810689	-	-	-	-				
						1.0	0.1	206	25.0	8.4	8.4	33.8	33.8	107.6	107.6	7.3	7.3	4.4	4.4	7	7	-	-												
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-	-	-	-	-	
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-	-	-	-		
					Bottom	3.6	0.0	273	24.9	8.4	8.4	34.2	34.2	106.8	106.7	7.3	7.3	4.4	4.4	9	9	-	-	-				-							
						3.6	0.0	276	24.9	8.4	8.4	34.2	34.2	106.6	106.6	7.3	7.3	4.4	4.4	9	9	-	-	-				-							
SR6A	Cloudy	Moderate	19:16	4.3	Surface	1.0	0.1	229	25.0	25.0	8.4	8.4	33.7	33.7	112.6	112.5	7.7	7.7	3.9	3.9	8	8	-	-	-	817981	814725	-	-	-	-				
						1.0	0.1	240	25.0	8.4																									

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

Water Quality Monitoring

Water Quality Monitoring Results on

14 November 19 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	Rough	13:24	8.5	Surface	1.0	0.2	189	25.1	25.1	8.2	8.2	33.8	33.8	112.9	112.5	7.7	7.5	3.9	5.6	10	8	89	90	815616	804270	<0.2	0.6	0.6							
						1.0	0.2	193	25.1	8.2	8.2	33.8	33.9	112.0	107.4	7.6	7.3	4.1	5.7	7.3	7.1	8	8	90	91	<0.2	0.5									
						4.3	0.2	205	25.0	8.2	8.2	33.9	33.9	108.0	107.3	7.4	7.3	5.6	5.7	7.3	7.1	8	8	90	91	<0.2	0.5									
					4.3	0.2	220	25.0	8.2	8.2	33.9	33.9	106.6	107.3	7.3	7.3	5.7	5.7	7.3	7.1	6	6	91	91	<0.2	0.6										
					7.5	0.0	247	24.9	24.9	8.2	8.2	34.0	34.0	107.2	107.3	7.3	7.3	7.1	7.1	6	6	91	91	<0.2	0.5											
					7.5	0.0	264	24.9	24.9	8.2	8.2	34.0	34.0	107.4	107.3	7.3	7.3	7.3	7.3	6	6	91	91	<0.2	0.6											
C2	Cloudy	Moderate	12:14	11.9	Surface	1.0	0.3	90	24.9	24.9	8.1	8.1	31.8	31.8	120.1	120.1	8.3	8.2	3.8	3.8	7	7	86	86	825652	806943	<0.2	1.0	0.9							
						1.0	0.3	93	24.9	24.9	8.1	8.1	31.8	31.8	120.1	120.1	8.3	8.3	3.8	3.8	7	7	85	85	<0.2	1.0										
						6.0	0.4	56	24.8	24.8	8.1	8.1	32.4	32.4	118.1	118.1	8.1	8.1	8.7	8.7	9	9	87	87	<0.2	0.9										
					6.0	0.4	56	24.8	24.8	8.1	8.1	32.4	32.4	118.1	118.1	8.1	8.1	8.7	8.7	10	10	88	88	<0.2	0.9											
					10.9	0.2	17	24.8	24.8	8.1	8.1	32.9	32.9	117.2	117.2	8.1	8.1	8.9	8.9	12	12	90	90	<0.2	0.8											
					10.9	0.2	17	24.8	24.8	8.1	8.1	32.9	32.9	117.1	117.1	8.1	8.1	8.8	8.8	12	12	91	91	<0.2	0.8											
C3	Cloudy	Moderate	14:04	11.8	Surface	1.0	0.4	98	25.2	25.2	8.1	8.1	33.4	33.4	124.0	123.8	8.4	8.3	2.2	2.2	5	6	86	85	822084	817803	<0.2	0.6	0.7							
						1.0	0.4	99	25.2	25.2	8.1	8.1	33.4	33.4	123.6	123.8	8.4	8.3	2.2	2.2	6	6	85	85	<0.2	0.6										
						5.9	0.3	107	25.3	25.3	8.1	8.1	33.6	33.6	119.6	119.6	8.1	8.1	2.8	2.8	6	6	89	88	<0.2	0.6										
					5.9	0.3	115	25.3	25.3	8.1	8.1	33.6	33.6	119.6	119.6	8.1	8.1	2.7	2.7	7	7	88	88	<0.2	0.5											
					10.8	0.3	105	25.3	25.3	8.1	8.1	33.6	33.6	118.6	118.6	8.1	8.1	3.5	3.5	7	7	92	92	<0.2	0.6											
					10.8	0.3	112	25.3	25.3	8.1	8.1	33.6	33.6	118.5	118.5	8.1	8.1	3.5	3.5	6	6	92	92	<0.2	1.1											
IM1	Cloudy	Moderate	13:04	5.1	Surface	1.0	0.1	180	25.1	25.1	8.3	8.3	33.1	33.1	133.0	132.6	9.1	9.1	3.9	3.9	7	8	89	90	817955	807114	<0.2	0.5	0.6							
						1.0	0.1	193	25.1	25.1	8.3	8.3	33.1	33.1	132.2	132.2	9.0	9.0	4.2	4.2	8	8	90	90	<0.2	0.5										
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-			
					4.1	0.2	210	24.9	24.9	8.3	8.3	33.5	33.5	129.0	129.0	8.8	8.8	6.2	6.2	7	7	90	90	<0.2	0.6											
					4.1	0.2	226	24.9	24.9	8.3	8.3	33.5	33.5	128.9	128.9	8.8	8.8	6.2	6.2	8	8	90	90	<0.2	0.6											
					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-			
IM2	Cloudy	Moderate	12:56	7.5	Surface	1.0	0.1	114	25.1	25.1	8.2	8.2	33.2	33.2	122.7	121.6	8.4	8.3	4.0	4.0	8	8	89	89	818171	806151	<0.2	0.5	0.6							
						1.0	0.1	120	25.1	25.1	8.2	8.2	33.2	33.2	120.5	120.5	8.2	8.2	4.1	4.1	8	8	89	89	<0.2	0.6										
						3.8	0.0	38	25.0	25.0	8.2	8.2	33.4	33.4	119.6	119.6	8.2	8.2	4.8	4.8	7	7	89	89	<0.2	0.5										
					3.8	0.0	39	25.0	25.0	8.2	8.2	33.4	33.4	119.6	119.6	8.2	8.2	4.9	4.9	8	8	90	90	<0.2	0.6											
					6.5	0.0	197	25.0	25.0	8.2	8.2	33.5	33.5	118.3	118.4	8.1	8.1	6.0	6.0	6	6	90	90	<0.2	0.6											
					6.5	0.0	210	25.0	25.0	8.2	8.2	33.5	33.5	118.5	118.5	8.1	8.1	5.9	5.9	6	6	90	90	<0.2	0.6											
IM3	Cloudy	Moderate	12:49	7.4	Surface	1.0	0.1	8	25.0	25.0	8.2	8.2	33.3	33.3	115.8	115.7	7.9	7.9	7.0	7.0	9	9	89	89	818761	805605	<0.2	0.5	0.5							
						1.0	0.1	8	25.0	25.0	8.2	8.2	33.3	33.3	115.5	115.7	7.9	7.9	7.1	7.1	9	9	89	89	<0.2	0.5										
						3.7	0.0	20	24.9	24.9	8.2	8.2	33.3	33.3	113.1	113.2	7.8	7.8	8.9	8.9	9	9	90	90	<0.2	0.6										
					3.7	0.0	21	24.9	24.9	8.2	8.2	33.3	33.3	113.2	113.2	7.8	7.8	8.9	8.9	9	9	90	90	<0.2	0.5											
					6.4	0.1	252	24.9	24.9	8.2	8.2	33.4	33.4	113.5	113.5	7.8	7.8	9.3	9.3	8	8	90	90	<0.2	0.6											
					6.4	0.1	258	24.9	24.9	8.2	8.2	33.4	33.4	113.5	113.5	7.8	7.8	9.4	9.4	7	7	91	91	<0.2	0.6											
IM4	Cloudy	Rough	12:41	7.9	Surface	1.0	0.1	311	25.0	25.0	8.2	8.2	32.9	32.9	120.9	120.8	8.3	8.1	4.0	4.0	7	8	90	90	819727	804623	<0.2	0.6	0.6							
						1.0	0.1	323	25.0	25.0	8.2	8.2	32.9	32.9	120.7	120.8	8.3	8.1	4.0	4.0	8	8	90	90	<0.2	0.6										
						4.0	0.1	332	24.9	24.9	8.2	8.2	33.1	33.1	115.6	115.2	7.9	7.9	5.8	5.8	7	7	90	91	<0.2	0.7										
					4.0	0.1	305	24.9	24.9	8.2	8.2	33.1	33.1	114.8	114.8	7.9	7.9	5.9	5.9	8	8	91	91	<0.2	0.6											
					6.9	0.1	350	24.9	24.9	8.2	8.2	33.2	33.2	115.5	115.6	7.9	7.9	6.4	6.4	9	9	91	91	<0.2	0.6											
					6.9	0.1	322	24.9	24.9	8.2	8.2	33.2	33.2	115.6	115.6	7.9	7.9	6.4	6.4	8	8	92	92	<0.2	0.6											
IM5	Cloudy	Rough	12:31	7.2	Surface	1.0	0.2	353	25.0	25.0	8.2	8.2	33.0	33.0	123.7	123.2	8.5	8.3	4.1	4.1	7	7	89	89	820758	804871	<0.2	0.6	0.6							
						1.0	0.2	325	25.0	25.0	8.2	8.2	33.0	33.0	122.7	123.2	8.4	8.2	4.1	4.1	6	6	89	89	<0.2	0.7										
						3.6	0.2	358	24.9	24.9	8.2	8.2	33.1	33.1	119.4	119.4	8.2	8.2	5.1	5.1	8	8	90	90	<0.2	0.6										
					3.6	0.2	329	24.9	24.9	8.2	8.2	33.1	33.1	119.3	119.3	8.2	8.2	5.1	5.1	8	8	90	90	<0.2	0.6											
					6.2	0.2	1	24.9	24.9	8.2	8.2	33.1	33.1	121.2	121.2	8.3	8.3	5.9	5.9	8	8	91	91	<0.2	0.6											
					6.2	0.2	1	24.9	24.9	8.2	8.2	33.1	33.1	121.1	121.1	8.3	8.3	6.3	6.3	9	9	91	91	<0.2	0.6											
IM6	Cloudy	Moderate	12:23	7.2	Surface	1.0	0.1	197	24.9	24.9	8.2	8.2	33.1	33.1	125.9	125.9	8.6	8.5	4.2	4.2	6	7	89	89	821043	805807	<0.2	0.6	0.6							
						1.0	0.1	205	24.9	24.9	8.2	8.2	33.1	33.1	125.8	125.9	8.6	8.5	4.4	4.4	7	7	89	89	<0.2	0.6										
						3.6	0.1	193	24.9	24.9	8.2	8.2	33.1	33.1	121.1	121.2	8.3	8.3	4.8	4.8	7	7	90	90	<0.2	0.6										
					3.6	0.1	195	24.9	24.9	8.2	8.2	33.1	33.1	121.3	121.2	8.3	8.3	4.9	4.9	8	8	90	90	<0.2	0.6											
					6.2	0.1	199	24.9	24.9	8.2	8.2	33.1	33.1	122.5	122.4	8.4	8.4	5.4	5.4	11	11	91	91	<0.2	0.6											
					6.2	0.1	207	24.9	24.9	8.2	8.2	33.1	33.1	122																						

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

Water Quality Monitoring

Water Quality Monitoring Results on

14 November 19 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	12:46	7.7	Surface	1.0	0.5	118	25.0	25.0	8.1	8.1	32.0	32.0	127.8	127.6	8.8	8.7	2.7	11	85	88	88	88	822079	808833	<0.2	0.8	0.9	0.9						
						1.0	0.5	129	25.0	8.1	8.1	32.0	32.0	127.4	127.6	8.8	8.7	2.7	11	86	88	88	88	822079	808833	<0.2	0.8	0.9	0.9							
					Middle	3.9	0.4	94	24.8	24.8	8.1	8.1	33.0	33.0	123.6	123.6	8.5	8.5	3.5	4.0	12	88	88	88	88	822079	808833	<0.2	1.1	0.9	0.9					
						3.9	0.4	99	24.8	24.8	8.1	8.1	33.0	33.0	123.5	123.6	8.5	8.5	3.5	4.0	12	87	88	88	88	822079	808833	<0.2	0.9	0.9	0.9					
					Bottom	6.7	0.4	94	24.7	24.7	8.1	8.1	33.3	33.3	117.8	117.8	8.1	8.1	5.8	8.1	5.7	13	93	90	90	90	822079	808833	<0.2	0.7	0.7	0.7				
						6.7	0.4	100	24.7	24.7	8.1	8.1	33.3	33.3	117.8	117.8	8.1	8.1	5.7	8.1	5.7	13	90	86	86	86	822079	808833	<0.2	0.7	0.7	0.7				
IM10	Cloudy	Moderate	12:54	7.5	Surface	1.0	0.5	83	25.0	25.0	8.1	8.1	32.0	32.0	129.1	129.1	8.9	8.8	2.5	11	86	85	85	85	822388	809792	<0.2	0.8	0.8	0.8						
						1.0	0.6	85	25.0	25.0	8.1	8.1	32.0	32.0	129.0	129.1	8.9	8.8	2.5	11	85	85	85	85	822388	809792	<0.2	0.9	0.9	0.9						
					Middle	3.8	0.5	79	24.9	24.9	8.1	8.1	32.3	32.3	126.7	126.7	8.7	8.7	2.6	3.4	11	88	88	88	88	822388	809792	<0.2	0.8	0.8	0.8					
						3.8	0.6	81	24.9	24.9	8.1	8.1	32.3	32.3	126.6	126.7	8.7	8.7	2.6	3.4	10	88	88	88	88	822388	809792	<0.2	0.9	0.9	0.9					
					Bottom	6.5	0.3	78	24.8	24.8	8.1	8.1	33.2	33.2	116.7	116.5	8.0	8.0	5.1	8.0	5.1	12	91	88	88	88	822388	809792	<0.2	0.8	0.8	0.8				
						6.5	0.3	84	24.8	24.8	8.1	8.1	33.2	33.2	116.2	116.5	8.0	8.0	5.1	8.0	5.1	12	91	88	88	88	822388	809792	<0.2	1.0	0.8	0.8				
IM11	Cloudy	Moderate	13:05	8.0	Surface	1.0	0.3	87	25.1	25.1	8.1	8.1	33.0	33.0	129.5	129.3	8.9	8.7	2.6	14	87	86	86	86	822063	811455	<0.2	0.7	0.6	0.6						
						1.0	0.3	89	25.1	25.1	8.1	8.1	33.0	33.0	129.1	129.3	8.8	8.7	2.6	13	86	86	86	86	822063	811455	<0.2	0.7	0.6	0.6						
					Middle	4.0	0.3	82	25.0	25.0	8.1	8.1	33.0	33.0	126.1	126.1	8.6	8.6	3.0	2.9	10	89	88	88	88	822063	811455	<0.2	0.6	0.6	0.6					
						4.0	0.3	87	25.0	25.0	8.1	8.1	33.0	33.0	126.0	126.0	8.6	8.6	2.9	2.9	10	88	88	88	88	822063	811455	<0.2	0.6	0.6	0.6					
					Bottom	7.0	0.3	84	25.0	25.0	8.1	8.1	33.0	33.0	123.0	122.9	8.4	8.4	3.3	8.4	3.3	9	91	88	88	88	822063	811455	<0.2	0.6	0.6	0.6				
						7.0	0.3	90	25.0	25.0	8.1	8.1	33.0	33.0	122.8	122.8	8.4	8.4	3.3	8.4	3.3	8	92	88	88	88	822063	811455	<0.2	0.6	0.6	0.6				
IM12	Cloudy	Moderate	13:12	9.5	Surface	1.0	0.3	100	25.2	25.2	8.2	8.2	33.1	33.1	138.4	138.4	9.5	9.2	2.2	8	85	86	86	86	821470	812041	<0.2	0.6	0.6	0.6						
						1.0	0.3	101	25.2	25.2	8.2	8.2	33.1	33.1	138.4	138.4	9.4	9.2	2.2	9	86	86	86	86	821470	812041	<0.2	0.6	0.6	0.6						
					Middle	4.8	0.3	107	25.0	25.0	8.1	8.1	33.1	33.1	131.2	131.2	9.0	9.0	2.4	2.7	9	87	87	87	87	821470	812041	<0.2	0.6	0.6	0.6					
						4.8	0.3	111	25.0	25.0	8.1	8.1	33.1	33.1	131.1	131.2	9.0	9.0	2.4	2.7	9	89	89	89	89	821470	812041	<0.2	0.5	0.6	0.6					
					Bottom	8.5	0.3	104	25.0	25.0	8.1	8.1	33.1	33.1	122.7	122.7	8.4	8.4	3.6	8.4	3.6	9	91	88	88	88	821470	812041	<0.2	0.6	0.6	0.6				
						8.5	0.3	106	25.0	25.0	8.1	8.1	33.1	33.1	122.7	122.7	8.4	8.4	3.7	8.4	3.7	10	90	88	88	88	821470	812041	<0.2	0.6	0.6	0.6				
SR1A	Cloudy	Moderate	13:31	5.6	Surface	1.0	-	-	25.0	25.0	8.1	8.1	33.1	33.1	130.9	130.9	9.0	9.0	3.7	11	-	-	-	-	819973	812663	-	-	-	-						
						1.0	-	-	25.0	25.0	8.1	8.1	33.1	33.1	130.8	130.9	9.0	9.0	3.8	9.0	3.8	11	-	-	-	-	819973	812663	-	-	-	-				
					Middle	2.8	-	-	-	-	-	-	-	-	-	-	-	-	-	9.0	-	-	-	-	-	-	-	-	-	-	-	-	-			
						2.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
					Bottom	4.6	-	-	24.9	24.9	8.1	8.1	33.3	33.3	122.6	122.4	8.4	8.4	4.6	8.4	4.6	12	-	-	-	-	-	-	-	-	-	-	-	-		
						4.6	-	-	24.9	24.9	8.1	8.1	33.3	33.3	122.2	122.4	8.4	8.4	4.6	8.4	4.6	13	-	-	-	-	-	-	-	-	-	-	-	-		
SR2	Cloudy	Moderate	13:44	4.0	Surface	1.0	0.3	78	25.2	25.2	8.1	8.1	33.2	33.2	130.4	130.3	8.9	8.9	2.5	13	86	86	86	86	821462	814177	<0.2	0.6	0.6	0.6						
						1.0	0.4	82	25.2	25.2	8.1	8.1	33.2	33.2	130.1	130.3	8.9	8.9	2.6	8.9	2.6	13	86	86	86	86	821462	814177	<0.2	0.5	0.6	0.6				
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
					Bottom	3.0	0.3	78	25.2	25.2	8.1	8.1	33.2	33.2	127.3	127.2	8.7	8.7	3.4	8.7	3.4	12	90	88	88	88	821462	814177	<0.2	0.6	0.6	0.6				
						3.0	0.3	83	25.2	25.2	8.1	8.1	33.2	33.2	127.0	127.2	8.7	8.7	3.5	8.7	3.5	11	91	88	88	88	821462	814177	<0.2	0.6	0.6	0.6				
SR3	Cloudy	Moderate	12:32	8.9	Surface	1.0	0.2	120	25.0	25.0	8.1	8.1	32.0	32.0	124.9	124.9	8.6	8.5	2.9	5	-	-	-	-	822144	807591	-	-	-	-						
						1.0	0.2	130	25.0	25.0	8.1	8.1	32.0	32.0	124.9	124.9	8.6	8.5	3.0	4.5	5	-	-	-	-	822144	807591	-	-	-	-					
					Middle	4.5	0.2	85	24.8	24.8	8.1	8.1	32.6	32.6	122.1	122.1	8.4	8.4	4.8	8.4	4.8	6	-	-	-	-	822144	807591	-	-	-	-				
						4.5	0.3	91	24.8	24.8	8.1	8.1	32.6	32.6	122.0	122.1	8.4	8.4	4.9	8.4	4.9	6	-	-	-	-	822144	807591	-	-	-	-				
					Bottom	7.9	0.3	53	24.8	24.8	8.1	8.1	33.1	33.1	118.0	117.9	8.1	8.1	5.8	8.1	5.8	6	-	-	-	-	822144	807591	-	-	-	-				
						7.9	0.3	57	24.8	24.8	8.1	8.1	33.1	33.1	117.8	117.9	8.1	8.1	5.8	8.1	5.8	7	-	-	-	-	822144	807591	-	-	-	-				
SR4A	Cloudy	Calm	13:47	8.2	Surface	1.0	0.4	57	25.1	25.1	8.1	8.1	33.4	33.4	128.0	127.9	8.7	8.5	4.2	5	-	-	-	-	817192	807787	-	-	-	-						
						1.0	0.5	59	25.1	25.1	8.1	8.1	33.4	33.4	127.8	127.9	8.7	8.5	4.3	5	-	-	-	-	817192	807787	-	-	-	-						
					Middle	4.1	0.3	62	25.0	25.0	8.1	8.1	33.5	33.5	122.0	121.8	8.3	8.3	4.7	8.3	4.7	5	-	-	-	-	817192	807787	-	-	-	-				
						4.1	0.3	65																												

Expansion of Hong Kong International Airport into a Three-Runway System  
 Water Quality Monitoring  
 Water Quality Monitoring Results on 14 November 19 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	09:01	8.4	Surface	1.0	0.7	41	24.7	24.7	8.3	8.3	32.1	32.1	115.7	115.6	8.0	6.6	6	6	89	90	89	90	90	815637	804232	<0.2	0.8	0.8	0.8			
						1.0	0.7	0	24.7	8.3	8.3	32.1	32.1	115.4	115.4	8.0	6.6	6	6	89	90	89	90	90	815637	804232	<0.2	0.8	0.8	0.8				
					Middle	4.2	0.7	39	24.8	24.8	8.4	8.4	33.0	33.0	113.0	113.0	7.8	10.1	6	6	90	90	90	90	90	815637	804232	<0.2	0.8	0.8	0.8			
						4.2	0.8	41	24.8	24.8	8.4	8.4	33.0	33.0	113.0	113.0	7.8	10.3	6	6	90	90	90	90	90	815637	804232	<0.2	0.8	0.8	0.8			
					Bottom	7.4	0.6	37	24.9	24.9	8.3	8.3	33.6	33.6	110.7	110.8	7.6	11.6	8	8	91	91	91	91	91	815637	804232	<0.2	0.8	0.8	0.8			
						7.4	0.6	39	24.9	24.9	8.3	8.3	33.6	33.6	110.9	110.9	7.6	11.5	9	9	91	91	91	91	91	815637	804232	<0.2	0.8	0.8	0.8			
C2	Cloudy	Moderate	09:49	11.7	Surface	1.0	0.4	330	24.9	24.9	7.9	7.9	30.6	30.6	118.8	118.8	8.3	2.8	5	5	85	85	85	85	89	825669	806968	<0.2	0.9	1.0	1.1			
						1.0	0.4	347	24.9	24.9	7.9	7.9	30.6	30.6	118.8	118.8	8.3	2.8	4	4	86	86	86	86	89	825669	806968	<0.2	0.9	1.0	1.1			
					Middle	5.9	0.3	11	24.8	24.8	7.9	7.9	31.2	31.2	112.6	112.6	7.9	6.7	4	4	88	89	89	89	89	825669	806968	<0.2	1.1	1.2	1.3			
						5.9	0.4	11	24.8	24.8	7.9	7.9	31.2	31.2	112.6	112.6	7.9	6.7	4	4	89	89	89	89	89	825669	806968	<0.2	1.1	1.2	1.3			
					Bottom	10.7	0.3	13	24.8	24.8	7.9	7.9	31.7	31.7	108.4	108.4	7.5	7.4	4	4	92	92	92	92	92	825669	806968	<0.2	1.3	1.3	1.3			
						10.7	0.4	13	24.8	24.8	7.9	7.9	31.7	31.7	108.4	108.4	7.5	7.4	4	4	91	91	91	91	91	825669	806968	<0.2	1.2	1.2	1.2			
C3	Cloudy	Moderate	07:58	11.6	Surface	1.0	0.7	268	25.0	25.0	8.0	8.0	33.1	33.1	120.0	120.0	8.2	4.4	5	5	85	85	85	85	89	822093	817779	<0.2	1.1	1.2	1.1			
						1.0	0.7	283	25.0	25.0	8.0	8.0	33.1	33.1	119.9	119.9	8.2	4.8	5	5	85	85	85	85	89	822093	817779	<0.2	1.2	1.2	1.1			
					Middle	5.8	0.0	271	25.1	25.1	7.9	7.9	33.1	33.1	119.2	119.2	8.2	13.4	7	7	89	89	89	89	89	822093	817779	<0.2	1.0	1.0	1.0			
						5.8	0.0	297	25.1	25.1	7.9	7.9	33.1	33.1	119.2	119.2	8.2	13.4	8	8	89	89	89	89	89	822093	817779	<0.2	1.0	1.0	1.0			
					Bottom	10.6	0.5	273	25.1	25.1	7.9	7.9	33.1	33.1	118.6	118.6	8.1	14.4	7	7	92	92	92	92	92	822093	817779	<0.2	0.8	0.8	0.8			
						10.6	0.6	276	25.1	25.1	7.9	7.9	33.1	33.1	118.6	118.6	8.1	14.4	8	8	92	92	92	92	92	822093	817779	<0.2	0.8	0.8	0.8			
IM1	Cloudy	Calm	09:22	4.6	Surface	1.0	0.1	2	24.9	24.9	8.3	8.3	33.5	33.5	122.5	122.5	8.4	5.1	7	7	89	89	89	89	90	817961	807128	<0.2	0.6	0.6	0.6			
						1.0	0.1	2	24.9	24.9	8.3	8.3	33.5	33.5	122.1	122.1	8.4	5.0	8	8	89	89	89	89	90	817961	807128	<0.2	0.6	0.6	0.6			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					Bottom	3.6	0.2	7	24.8	24.8	8.2	8.2	33.6	33.6	120.5	120.5	8.3	5.8	7	7	90	90	90	90	90	90	90	90	817961	807128	<0.2	0.6	0.6	0.6
						3.6	0.2	7	24.8	24.8	8.2	8.2	33.6	33.6	120.5	120.5	8.3	5.8	6	6	90	90	90	90	90	90	90	90	817961	807128	<0.2	0.6	0.6	0.6
IM2	Cloudy	Moderate	09:29	6.9	Surface	1.0	0.3	12	24.8	24.8	8.3	8.3	33.1	33.1	119.1	119.1	8.2	9.4	13	13	90	90	90	90	91	818165	806145	<0.2	0.7	0.6	0.6			
						1.0	0.3	12	24.8	24.8	8.3	8.3	33.1	33.1	119.1	119.1	8.2	9.4	14	14	90	90	90	90	91	818165	806145	<0.2	0.6	0.6	0.6			
					Middle	3.5	0.2	17	24.8	24.8	8.2	8.2	33.1	33.1	114.3	114.4	7.9	12.7	13	13	91	91	91	91	91	818165	806145	<0.2	0.8	0.8	0.8			
						3.5	0.2	17	24.8	24.8	8.2	8.2	33.1	33.1	114.4	114.4	7.9	12.8	14	14	91	91	91	91	91	818165	806145	<0.2	0.8	0.8	0.8			
					Bottom	5.9	0.2	341	24.8	24.8	8.3	8.3	33.2	33.2	114.5	114.5	7.9	13.2	14	14	91	91	91	91	91	818165	806145	<0.2	0.7	0.7	0.7			
						5.9	0.2	346	24.8	24.8	8.3	8.3	33.2	33.2	114.4	114.4	7.9	13.2	13	13	91	91	91	91	91	818165	806145	<0.2	0.7	0.7	0.7			
IM3	Cloudy	Rough	09:36	7.3	Surface	1.0	0.4	353	24.8	24.8	8.3	8.3	33.2	33.2	118.9	118.9	8.2	14.0	11	11	89	89	89	89	90	818793	805596	<0.2	0.7	0.7	0.7			
						1.0	0.4	325	24.8	24.8	8.3	8.3	33.2	33.2	118.9	118.9	8.2	14.0	10	10	89	89	89	89	90	818793	805596	<0.2	0.7	0.7	0.7			
					Middle	3.7	0.4	352	24.8	24.8	8.2	8.2	33.3	33.3	114.2	114.2	7.8	15.5	12	12	90	90	90	90	90	818793	805596	<0.2	0.6	0.6	0.6			
						3.7	0.4	324	24.8	24.8	8.2	8.2	33.3	33.3	114.2	114.2	7.8	15.3	12	12	90	90	90	90	90	818793	805596	<0.2	0.6	0.6	0.6			
					Bottom	6.3	0.3	343	24.8	24.8	8.2	8.2	33.3	33.3	115.6	115.5	7.9	17.1	13	13	91	91	91	91	91	818793	805596	<0.2	0.6	0.6	0.6			
						6.3	0.4	343	24.8	24.8	8.2	8.2	33.3	33.3	115.4	115.4	7.9	16.8	12	12	91	91	91	91	91	818793	805596	<0.2	0.6	0.6	0.6			
IM4	Cloudy	Rough	09:45	7.8	Surface	1.0	0.6	357	24.7	24.7	8.3	8.3	32.4	32.4	121.4	121.3	8.4	9.9	11	11	89	89	89	89	90	819701	804603	<0.2	0.8	0.8	0.8			
						1.0	0.6	357	24.7	24.7	8.3	8.3	32.4	32.4	121.2	121.2	8.4	10.1	11	11	90	90	90	90	90	819701	804603	<0.2	0.8	0.8	0.8			
					Middle	3.9	0.5	347	24.8	24.8	8.3	8.3	33.0	33.0	116.2	116.3	8.0	10.2	11	11	90	90	90	90	90	819701	804603	<0.2	0.8	0.8	0.8			
						3.9	0.5	319	24.8	24.8	8.3	8.3	33.0	33.0	116.4	116.3	8.0	10.4	11	11	91	91	91	91	91	819701	804603	<0.2	0.8	0.8	0.8			
					Bottom	6.8	0.4	347	24.8	24.8	8.3	8.3	33.1	33.1	118.1	118.1	8.1	12.2	11	11	91	91	91	91	91	819701	804603	<0.2	0.8	0.8	0.8			
						6.8	0.4	319	24.8	24.8	8.3	8.3	33.1	33.1	118.0	118.1	8.1	12.4	12	12	91	91	91	91	91	819701	804603	<0.2	0.8	0.8	0.8			
IM5	Cloudy	Rough	09:52	7.2	Surface	1.0	0.7	18	24.7	24.7	8.3	8.3	32.5	32.5	123.8	123.8	8.5	6.5	9	9	89	89	89	89	90	820712	804857	<0.2	0.8	0.8	0.8			
						1.0	0.7	19	24.7	24.7	8.3	8.3	32.5	32.5	123.7	123.8	8.5	6.8	8	8	89	89	89	89	90	820712	804857	<0.2	0.8	0.8	0.8			
					Middle	3.6	0.7	18	24.8	24.8	8.3	8.3	32.8	32.9	118.7	118.8	8.																	





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

Water Quality Monitoring

Water Quality Monitoring Results on 16 November 19 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	Value	DA							
C1	Sunny	Moderate	14:52	8.1	Surface	1.0	0.3	140	24.6	24.6	8.1	8.1	32.9	32.9	120.5	120.4	8.3	3.7	3	86	88	88	88	88	88	88	88	815614	804224	<0.2	0.8	<0.2	0.8									
						1.0	0.3	141	24.6	24.6	8.1	8.1	32.9	32.9	120.3	118.1	8.3	3.8	4	86	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88						
						4.1	0.3	137	24.6	24.6	8.1	8.1	33.1	33.1	118.2	118.1	8.2	4.6	4	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88					
					Middle	4.1	0.3	138	24.6	24.6	8.1	8.1	33.1	33.1	117.9	118.1	8.1	4.5	5	89	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88				
						7.1	0.2	136	24.6	24.6	8.1	8.1	33.1	33.1	115.9	115.8	8.0	5.5	5	91	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88				
						7.1	0.3	139	24.6	24.6	8.1	8.1	33.1	33.1	115.7	115.7	8.0	5.8	6	90	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88			
					C2	Sunny	Moderate	13:44	11.5	Surface	1.0	0.3	146	25.0	25.0	8.0	8.0	32.0	32.0	120.4	120.4	8.3	4.8	4	87	88	88	88	88	88	88	88	825696	806959	<0.2	1.6	<0.2	1.4				
											1.0	0.3	155	25.0	25.0	8.0	8.0	32.0	32.0	120.4	114.2	8.3	4.8	3	86	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88
											5.8	0.2	142	24.9	24.9	8.0	8.0	32.2	32.2	114.2	114.2	7.9	6.6	3	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88
Middle	5.8	0.3	149	24.9						24.9	8.0	8.0	32.2	32.2	114.2	114.2	7.9	6.6	3	89	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88			
	10.5	0.2	150	24.8						24.8	8.0	8.0	32.7	32.7	113.9	113.9	7.8	7.6	4	92	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88			
	10.5	0.2	161	24.8						24.8	8.0	8.0	32.7	32.7	113.9	113.9	7.8	7.6	3	91	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88		
C3	Sunny	Moderate	15:40	10.8						Surface	1.0	0.1	44	25.3	25.3	8.0	8.0	34.8	34.8	118.1	118.1	8.0	4.3	2	85	85	87	87	87	87	87	87	822110	817803	<0.2	0.6	<0.2	0.6				
											1.0	0.1	45	25.3	25.3	8.0	8.0	34.8	34.8	118.1	110.3	8.0	4.4	2	85	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87
											5.4	0.2	41	25.1	25.1	7.9	7.9	34.9	34.9	110.3	110.3	7.5	4.7	3	87	86	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87
					Middle	5.4	0.2	43	25.2	25.2	7.9	7.9	34.9	34.9	110.2	110.2	7.5	4.7	3	86	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87			
						9.8	0.2	47	25.1	25.1	7.9	7.9	34.9	34.9	107.1	107.1	7.3	5.5	4	89	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88				
						9.8	0.2	51	25.1	25.1	7.9	7.9	34.9	34.9	107.1	107.1	7.2	5.5	3	90	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88			
					IM1	Sunny	Moderate	14:31	5.4	Surface	1.0	0.2	213	24.9	24.9	8.2	8.2	33.3	33.3	127.2	127.1	8.7	3.8	6	86	86	86	86	86	86	86	88	817947	807144	<0.2	1.1	<0.2	1.1				
											1.0	0.2	208	24.9	24.9	8.2	8.2	33.3	33.3	127.0	127.0	8.7	3.9	5	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86
											-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Middle	-	-	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
	4.4	0.1	229	24.9						25.0	8.2	8.2	33.3	33.3	125.4	125.1	8.6	4.6	6	90	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88				
	4.4	0.1	238	25.0						25.0	8.2	8.2	33.2	33.2	124.8	124.8	8.5	4.8	7	91	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88				
IM2	Sunny	Moderate	14:25	7.6						Surface	1.0	0.2	210	24.7	24.7	8.1	8.1	32.9	32.9	120.0	119.9	8.3	5.1	5	86	86	89	89	89	89	89	89	818167	806159	<0.2	1.1	<0.2	1.0				
											1.0	0.3	207	24.7	24.7	8.1	8.1	32.9	32.9	119.8	118.9	8.3	5.2	6	86	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89
											3.8	0.2	196	24.6	24.6	8.1	8.1	32.9	32.9	118.9	118.8	8.2	5.8	6	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89
					Middle	3.8	0.2	212	24.6	24.6	8.1	8.1	32.9	32.9	118.8	118.8	8.2	5.6	5	90	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88				
						6.6	0.2	211	24.6	24.6	8.1	8.1	32.9	32.9	117.2	117.1	8.1	7.0	6	91	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88				
						6.6	0.2	224	24.6	24.6	8.1	8.1	32.9	32.9	117.0	117.0	8.1	7.1	6	90	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88				
					IM3	Sunny	Moderate	14:18	7.9	Surface	1.0	0.3	234	24.6	24.6	8.1	8.1	32.6	32.6	119.6	119.5	8.3	5.3	6	86	86	87	87	87	87	87	88	818786	805591	<0.2	1.1	<0.2	1.1				
											1.0	0.3	229	24.6	24.6	8.1	8.1	32.6	32.6	119.4	119.5	8.3	5.3	8	85	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	
											4.0	0.3	235	24.6	24.6	8.1	8.1	32.7	32.8	116.1	115.9	8.0	8.0	7	87	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88
Middle	4.0	0.3	232	24.6						24.6	8.1	8.1	32.8	32.8	115.6	115.9	8.0	8.9	8	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88				
	6.9	0.2	242	24.6						24.6	8.1	8.1	33.0	32.9	115.3	115.4	8.0	10.2	8	90	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88				
	6.9	0.2	223	24.6						24.6	8.1	8.1	32.9	32.9	115.4	115.4	8.0	10.0	9	91	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88				
IM4	Sunny	Moderate	14:08	7.4						Surface	1.0	0.6	234	24.6	24.6	8.1	8.1	32.6	32.6	116.1	115.9	8.0	6.2	8	86	87	88	88	88	88	88	88	819732	804596	<0.2	1.1	<0.2	1.2				
											1.0	0.6	218	24.6	24.6	8.1	8.1	32.6	32.6	115.7	114.4	8.0	6.6	7	87	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	
											3.7	0.5	255	24.6	24.6	8.1	8.1	32.7	32.7	114.4	114.4	7.9	8.5	10	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88
					Middle	3.7	0.5	237																																		

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

Water Quality Monitoring Results on 16 November 19 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		
IM9	Sunny	Moderate	14:18	7.6	Surface	1.0	0.2	165	25.1	25.1	8.0	8.0	32.7	32.7	123.2	123.3	8.5	8.5	4.5	4	4	84	86	822116	808827	<0.2	0.9	<0.2	1.0		
						1.0	0.2	177	25.1	8.0	8.0	32.7	32.7	123.3	123.3	8.5	8.5	4.5	4	4	84	86	822116	808827	<0.2	1.0	<0.2	1.0			
					Middle	3.8	0.2	178	24.9	24.9	8.0	8.0	32.9	32.9	122.2	122.1	8.4	8.4	5.0	4	4	86	86	822116	808827	<0.2	1.0	<0.2	1.0		
						3.8	0.2	185	24.9	24.9	8.0	8.0	32.9	32.9	122.0	122.1	8.4	8.4	5.0	4	4	87	86	822116	808827	<0.2	1.0	<0.2	1.0		
					Bottom	6.6	0.0	131	24.7	24.7	8.0	8.0	33.4	33.4	119.9	119.9	8.2	8.2	5.3	5	5	88	88	822116	808827	<0.2	0.8	<0.2	0.9		
						6.6	0.0	131	24.7	24.7	8.0	8.0	33.4	33.4	119.8	119.8	8.2	8.2	5.3	4	4	88	88	822116	808827	<0.2	0.8	<0.2	0.9		
IM10	Sunny	Moderate	14:26	8.4	Surface	1.0	0.2	167	25.0	25.0	8.1	8.1	34.0	34.0	123.7	123.7	8.4	8.4	5.1	5	5	85	85	822403	809801	<0.2	0.9	<0.2	0.7		
						1.0	0.2	163	25.0	25.0	8.1	8.1	34.0	34.0	123.6	123.6	8.4	8.4	5.1	4	4	85	86	822403	809801	<0.2	0.7	<0.2	0.6		
					Middle	4.2	0.3	153	25.0	25.0	8.1	8.1	34.0	34.0	122.7	122.7	8.4	8.4	5.5	5	5	86	86	822403	809801	<0.2	0.8	<0.2	0.5		
						4.2	0.3	164	25.0	25.0	8.1	8.1	34.0	34.0	122.6	122.6	8.4	8.4	5.5	4	4	87	88	822403	809801	<0.2	0.8	<0.2	0.8		
					Bottom	7.4	0.3	169	24.9	24.9	8.2	8.2	34.0	34.0	120.4	120.4	8.2	8.2	6.0	6	6	88	88	822403	809801	<0.2	0.8	<0.2	0.9		
						7.4	0.3	157	24.9	24.9	8.2	8.2	34.0	34.0	120.3	120.3	8.2	8.2	5.9	6	6	88	88	822403	809801	<0.2	0.8	<0.2	0.9		
IM11	Sunny	Moderate	14:38	8.9	Surface	1.0	0.2	150	25.0	25.0	8.1	8.1	34.0	34.0	125.5	125.5	8.5	8.5	5.0	4	4	84	84	822041	811471	<0.2	0.9	<0.2	0.9		
						1.0	0.2	153	25.0	25.0	8.1	8.1	34.0	34.0	125.4	125.4	8.5	8.5	5.0	4	4	84	86	822041	811471	<0.2	0.9	<0.2	0.8		
					Middle	4.5	0.2	168	25.0	25.0	8.1	8.1	34.0	34.0	123.0	123.2	8.4	8.4	5.5	5	5	86	86	822041	811471	<0.2	0.8	<0.2	0.8		
						4.5	0.2	173	25.0	25.0	8.1	8.1	34.0	34.0	123.4	123.4	8.4	8.4	5.6	5	5	86	88	822041	811471	<0.2	0.8	<0.2	0.9		
					Bottom	7.9	0.2	153	25.0	25.0	8.1	8.1	34.0	34.0	122.3	122.4	8.3	8.4	6.2	6	6	88	88	822041	811471	<0.2	0.8	<0.2	0.8		
						7.9	0.2	159	25.0	25.0	8.1	8.1	34.0	34.0	122.5	122.4	8.4	8.4	6.2	7	7	88	88	822041	811471	<0.2	0.9	<0.2	0.9		
IM12	Sunny	Moderate	14:46	8.3	Surface	1.0	0.3	138	25.2	25.2	8.0	8.0	34.0	34.0	128.1	128.1	8.7	8.7	4.9	4	4	84	83	821479	812039	<0.2	0.9	<0.2	0.9		
						1.0	0.3	139	25.2	25.2	8.0	8.0	34.0	34.0	128.1	128.1	8.7	8.7	4.9	4	4	83	85	821479	812039	<0.2	0.9	<0.2	0.7		
					Middle	4.2	0.2	153	24.9	24.9	8.0	8.0	34.1	34.1	123.5	123.6	8.4	8.4	5.7	4	5	85	86	821479	812039	<0.2	0.9	<0.2	0.8		
						4.2	0.2	152	24.9	24.9	8.0	8.0	34.1	34.1	123.6	123.6	8.4	8.4	5.7	5	5	86	88	821479	812039	<0.2	0.7	<0.2	1.0		
					Bottom	7.3	0.2	154	24.8	24.8	8.0	8.0	34.2	34.2	121.1	120.9	8.3	8.3	7.0	5	5	88	89	821479	812039	<0.2	0.8	<0.2	1.0		
						7.3	0.2	164	24.8	24.8	8.0	8.0	34.2	34.2	120.7	120.7	8.2	8.3	7.0	5	5	89	89	821479	812039	<0.2	0.8	<0.2	1.0		
SR1A	Sunny	Moderate	15:10	5.6	Surface	1.0	-	-	25.0	25.0	8.0	8.0	34.1	34.1	124.4	124.5	8.5	8.5	5.1	4	4	-	-	819975	812662	-	-	-	-		
						1.0	-	-	25.0	25.0	8.0	8.0	34.1	34.1	124.6	124.5	8.5	8.5	5.1	4	4	-	-	819975	812662	-	-	-	-		
					Middle	2.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	819975	812662	-	-	-	-
						2.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	819975	812662	-	-	-	-
					Bottom	4.6	-	-	24.8	24.8	8.0	8.0	34.2	34.2	121.1	121.2	8.3	8.3	6.0	4	4	-	-	-	-	819975	812662	-	-	-	-
						4.6	-	-	24.8	24.8	8.0	8.0	34.2	34.2	121.2	121.2	8.3	8.3	6.0	5	5	-	-	-	-	819975	812662	-	-	-	-
SR2	Sunny	Moderate	15:19	4.6	Surface	1.0	0.3	163	25.0	25.0	8.0	8.0	34.1	34.1	123.9	123.9	8.4	8.4	6.1	4	4	84	83	821472	814154	<0.2	1.1	<0.2	1.2		
						1.0	0.3	159	25.0	25.0	8.0	8.0	34.1	34.1	123.9	123.9	8.4	8.4	6.1	3	3	83	84	821472	814154	<0.2	1.2	<0.2	0.8		
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	821472	814154	<0.2	1.0	<0.2	0.8
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	821472	814154	<0.2	1.0	<0.2	0.8
					Bottom	3.6	0.3	153	24.8	24.8	8.0	8.0	34.1	34.1	121.1	121.0	8.3	8.3	5.4	5	5	84	85	821472	814154	<0.2	0.8	<0.2	0.8		
						3.6	0.3	163	24.8	24.8	8.0	8.0	34.1	34.1	120.9	120.9	8.3	8.3	5.4	4	4	85	85	821472	814154	<0.2	0.8	<0.2	0.8		
SR3	Sunny	Moderate	14:04	8.8	Surface	1.0	0.0	155	25.0	25.0	8.1	8.1	32.1	32.1	121.0	121.1	8.4	8.4	4.6	4	4	-	-	822135	807580	-	-	-	-		
						1.0	0.0	160	25.0	25.0	8.1	8.1	32.1	32.1	121.0	121.0	8.3	8.2	4.6	3	3	-	-	822135	807580	-	-	-	-		
					Middle	4.4	0.2	151	24.8	24.8	8.1	8.1	32.8	32.8	117.2	117.1	8.1	8.1	6.0	4	4	-	-	-	-	822135	807580	-	-	-	-
						4.4	0.2	152	24.8	24.8	8.1	8.1	32.8	32.8	117.0	117.1	8.1	8.1	6.0	3	3	-	-	-	-	822135	807580	-	-	-	-
					Bottom	7.8	0.3	155	24.6	24.6	8.2	8.2	34.0	34.0	117.8	117.8	8.1	8.1	7.0	5	5	-	-	-	-	822135	807580	-	-	-	-
						7.8	0.3	159	24.7	24.6	8.2	8.2	34.0	34.0	117.7	117.8	8.1	8.1	7.0	6	6	-	-	-	-	822135	807580	-	-	-	-
SR4A	Sunny	Moderate	15:14	8.8	Surface	1.0	0.6	65	24.6	24.6	8.1	8.1	33.0	33.0	124.5	124.4	8.6	8.6	4.6	5	5	-	-	817207	807794	-	-	-	-		
						1.0	0.7	65	24.6	24.6	8.1	8.1	33.0	33.0	124.2	124.2	8.6	8.5	4.6	6	6	-	-	817207	807794	-	-	-	-		
					Middle	4.4	0.5	77	24.6	24.6	8.1	8.1	33.1	33.1	122.1	122.0	8.4	8.4	4.7	6	7	-	-	-	-	817207	807794	-	-	-	-
						4.4	0.5	80	24.6	24.6	8.1	8.1	33.1	33.1	121.8	122.0	8.4	8.4	4.8	7	7	-	-	-	-	817207	807794	-	-	-	-
					Bottom	7.8	0.4	78	24.6	24.6	8.1	8.1	33.1	33.1	121.1	121.0	8.4	8.4	4.9	7	7	-	-	-	-	817207	807794	-	-	-	-
						7.8	0.4	85	24.6	24.6	8.1	8.1	33.1	33.1	120.9	120.9	8.3	8.4	5.0	8	8	-	-	-	-	817207	807794	-	-	-	-
SR5A	Sunny	Moderate	15:29	4.4	Surface	1.0	0.1	342	2																						

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

Water Quality Monitoring Results on 16 November 19 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	10:11	8.4	Surface	1.0	0.3	26	24.5	24.5	8.1	8.1	32.9	33.0	118.4	116.3	8.2	8.0	8.2	6	87	89	815616	804258	<0.2	0.8	<0.2	0.9			
						1.0	0.3	26	24.5	24.5	8.1	8.1	33.0	33.0	114.2	116.3	7.9	8.0	8.6	6	86	86	815616	804258	<0.2	1.0	<0.2	1.0			
					Middle	4.2	0.4	24	24.5	24.5	8.1	8.1	33.1	33.1	113.9	114.0	7.9	8.0	10.5	7	89	89	815616	804258	<0.2	1.0	<0.2	1.0			
						4.2	0.4	25	24.5	24.5	8.1	8.1	33.1	33.1	114.0	114.0	7.9	8.0	10.5	8	90	90	815616	804258	<0.2	1.0	<0.2	1.0			
					Bottom	7.4	0.3	15	24.4	24.4	8.1	8.1	33.2	33.2	114.0	113.9	7.9	7.9	15.5	8	90	88	815616	804258	<0.2	1.2	<0.2	1.5			
						7.4	0.3	16	24.3	24.3	8.1	8.1	33.2	33.2	113.8	113.8	7.9	7.9	15.5	8	91	87	815616	804258	<0.2	1.1	<0.2	1.1			
C2	Cloudy	Moderate	10:32	11.0	Surface	1.0	0.2	332	25.0	25.0	8.1	8.1	32.0	32.0	120.2	120.2	8.3	8.1	4.6	3	87	87	825704	806946	<0.2	1.4	<0.2	1.4			
						1.0	0.2	337	25.0	25.0	8.1	8.1	32.0	32.0	120.1	120.1	8.3	8.1	4.6	3	88	88	825704	806946	<0.2	1.3	<0.2	1.3			
					Middle	5.5	0.2	355	24.9	24.9	8.1	8.1	32.2	32.2	114.7	114.7	7.9	8.0	7.0	4	90	89	825704	806946	<0.2	1.4	<0.2	1.4			
						5.5	0.2	327	24.9	24.9	8.1	8.1	32.2	32.2	114.6	114.6	7.9	8.0	7.0	3	90	90	825704	806946	<0.2	1.4	<0.2	1.4			
					Bottom	10.0	0.2	29	24.8	24.8	8.1	8.1	32.8	32.8	113.2	113.1	7.8	7.8	7.1	3	92	88	825704	806946	<0.2	1.3	<0.2	1.3			
						10.0	0.2	29	24.8	24.8	8.1	8.1	32.8	32.8	113.0	113.0	7.8	7.8	7.0	4	92	88	825704	806946	<0.2	1.4	<0.2	1.4			
C3	Cloudy	Moderate	08:50	10.8	Surface	1.0	0.4	244	25.0	25.0	8.1	8.1	34.1	34.1	117.0	117.0	8.0	7.9	5.2	6	86	86	822118	817782	<0.2	1.9	<0.2	1.9			
						1.0	0.4	259	25.0	25.0	8.1	8.1	34.1	34.1	117.0	117.0	8.0	7.9	5.2	6	86	86	822118	817782	<0.2	1.9	<0.2	1.9			
					Middle	5.4	0.4	252	25.0	25.0	8.1	8.1	34.1	34.1	114.9	114.9	7.8	8.0	5.4	6	90	89	822118	817782	<0.2	1.6	<0.2	1.6			
						5.4	0.4	263	25.0	25.0	8.1	8.1	34.1	34.1	114.9	114.9	7.8	8.0	5.4	6	90	90	822118	817782	<0.2	1.6	<0.2	1.6			
					Bottom	9.8	0.4	260	25.0	25.0	8.2	8.2	34.1	34.1	114.2	114.3	7.8	7.8	8.5	6	91	88	822118	817782	<0.2	1.0	<0.2	1.0			
						9.8	0.4	284	25.0	25.0	8.2	8.2	34.1	34.1	114.4	114.4	7.8	7.8	8.6	4	91	88	822118	817782	<0.2	0.9	<0.2	0.9			
IM1	Cloudy	Moderate	10:30	5.0	Surface	1.0	0.3	5	24.6	24.6	8.1	8.1	33.3	33.3	118.0	118.0	8.1	8.1	6.8	7	86	87	817964	807139	<0.2	1.2	<0.2	1.2			
						1.0	0.3	5	24.6	24.6	8.1	8.1	33.3	33.3	117.9	117.9	8.1	8.1	7.0	7	85	85	817964	807139	<0.2	1.2	<0.2	1.2			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	87	817964	807139	<0.2	1.2	<0.2	1.2
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	87	817964	807139	<0.2	1.2	<0.2	1.2
					Bottom	4.0	0.3	10	24.5	24.5	8.1	8.1	33.4	33.4	116.5	116.3	8.0	8.0	7.5	10	87	88	817964	807139	<0.2	1.2	<0.2	1.2			
						4.0	0.3	10	24.5	24.5	8.1	8.1	33.4	33.4	116.1	116.3	8.0	8.0	7.5	10	88	88	817964	807139	<0.2	1.2	<0.2	1.2			
IM2	Cloudy	Moderate	10:37	7.4	Surface	1.0	0.3	24	24.7	24.7	8.1	8.1	33.0	33.0	117.4	117.3	8.1	8.0	5.8	6	86	87	818140	806154	<0.2	1.3	<0.2	1.3			
						1.0	0.3	24	24.7	24.7	8.1	8.1	33.0	33.0	117.1	117.3	8.1	8.0	5.8	8	87	87	818140	806154	<0.2	1.3	<0.2	1.3			
					Middle	3.7	0.3	10	24.5	24.5	8.1	8.1	33.1	33.1	114.5	114.5	7.9	7.9	7.5	7	89	89	818140	806154	<0.2	1.4	<0.2	1.4			
						3.7	0.3	10	24.5	24.5	8.1	8.1	33.1	33.1	114.5	114.5	7.9	7.9	7.7	8	88	88	818140	806154	<0.2	1.5	<0.2	1.5			
					Bottom	6.4	0.2	342	24.5	24.5	8.1	8.1	33.2	33.2	114.8	114.8	7.9	7.9	9.6	10	88	88	818140	806154	<0.2	1.6	<0.2	1.6			
						6.4	0.3	315	24.5	24.5	8.1	8.1	33.2	33.2	114.8	114.8	7.9	7.9	9.5	10	89	89	818140	806154	<0.2	1.5	<0.2	1.5			
IM3	Cloudy	Moderate	10:44	7.7	Surface	1.0	0.4	5	24.6	24.6	8.1	8.1	32.7	32.7	122.4	122.2	8.5	8.2	5.2	5	87	87	818799	805600	<0.2	1.4	<0.2	1.4			
						1.0	0.4	5	24.6	24.6	8.1	8.1	32.7	32.7	122.0	122.0	8.4	8.2	5.5	5	85	85	818799	805600	<0.2	1.4	<0.2	1.4			
					Middle	3.9	0.3	342	24.5	24.5	8.1	8.1	33.1	33.1	114.5	114.5	7.9	8.0	9.5	6	87	87	818799	805600	<0.2	1.3	<0.2	1.3			
						3.9	0.3	315	24.5	24.5	8.1	8.1	33.1	33.1	114.5	114.5	7.9	8.0	9.7	5	88	88	818799	805600	<0.2	1.2	<0.2	1.2			
					Bottom	6.7	0.3	321	24.5	24.5	8.1	8.1	33.1	33.1	114.5	114.5	7.9	7.9	12.3	9	89	89	818799	805600	<0.2	1.6	<0.2	1.6			
						6.7	0.3	323	24.5	24.5	8.1	8.1	33.1	33.1	114.5	114.5	7.9	7.9	12.5	8	90	89	818799	805600	<0.2	1.4	<0.2	1.4			
IM4	Cloudy	Moderate	10:51	7.5	Surface	1.0	0.6	1	24.6	24.6	8.1	8.1	32.6	32.6	119.0	118.9	8.2	8.1	5.1	5	85	85	819748	804587	<0.2	1.5	<0.2	1.5			
						1.0	0.6	1	24.6	24.6	8.1	8.1	32.6	32.6	118.8	118.8	8.2	8.1	5.4	6	85	85	819748	804587	<0.2	1.6	<0.2	1.6			
					Middle	3.8	0.5	359	24.6	24.6	8.1	8.1	32.7	32.8	116.6	116.6	8.1	8.0	7.5	6	87	87	819748	804587	<0.2	1.4	<0.2	1.4			
						3.8	0.6	330	24.6	24.6	8.1	8.1	32.8	32.8	116.5	116.6	8.0	8.0	7.8	6	88	88	819748	804587	<0.2	1.6	<0.2	1.6			
					Bottom	6.5	0.4	356	24.6	24.6	8.1	8.1	32.9	32.9	115.9	116.0	8.0	8.0	9.7	9	88	88	819748	804587	<0.2	1.8	<0.2	1.8			
						6.5	0.4	328	24.6	24.6	8.1	8.1	32.9	32.9	116.0	116.0	8.0	8.0	9.7	10	90	88	819748	804587	<0.2	1.7	<0.2	1.7			
IM5	Cloudy	Moderate	10:58	7.2	Surface	1.0	0.8	13	24.7	24.7	8.1	8.1	32.7	32.7	118.5	118.5	8.2	8.1	6.0	6	87	87	820725	804880	<0.2	1.4	<0.2	1.4			
						1.0	0.8	14	24.7	24.7	8.1	8.1	32.8	32.8	118.4	118.4	8.2	8.1	6.3	7	86	86	820725	804880	<0.2	1.5	<0.2	1.5			
					Middle	3.6	0.7	15	24.6	24.6	8.1	8.1	32.7	32.8	116.6	116.6	8.1	8.0	7.8	10	87	87	820725	804880	<0.2	1.5	<0.2	1.5			
						3.6	0.7	15	24.6	24.6	8.1	8.1	32.8	32.8	116.5	116.6	8.0	8.0	7.8	11	89	89	820725	804880	<0.2	1.5	<0.2	1.5			
					Bottom	6.2	0.6	16	24.6	24.6	8.1	8.1	32.9	32.9	116.8	116.7	8.1	8.1	14.9	12	89	89	820725	804880	<0.2	1.5	<0.2	1.5			
						6.2	0.6	16	24.6	24.6	8.1	8.1	33.0	32.9	116.6	116.6	8.1	8.1	14.4	12	90	89	820725	804880	<0.2	1.5	<0.2	1.5			
IM6	Cloudy	Moderate	11:06	7.8	Surface</																										

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

Water Quality Monitoring Results on 16 November 19 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	10:03	7.5	Surface	1.0	0.3	296	24.7	24.7	8.0	8.0	33.3	33.3	118.2	118.2	8.1	8.1	7.4	5	85	88	822116	808794	<0.2	1.3	<0.2	1.2					
						1.0	0.3	325	24.7	8.0	8.0	33.3	33.3	118.1	118.1	8.1	8.1	7.2	5	84	88	<0.2	1.2	<0.2	1.0								
						3.8	0.2	304	24.7	8.0	8.0	33.3	33.3	116.5	116.6	8.0	8.0	10.3	7	88	88	<0.2	1.2	<0.2	1.0								
					Middle	3.8	0.3	328	24.7	8.0	8.0	33.3	33.3	116.7	116.6	8.0	8.0	10.3	6	88	88	<0.2	1.0	<0.2	1.0								
						6.5	0.2	306	24.7	8.0	8.0	33.3	33.3	115.8	115.9	8.0	8.0	16.3	9	92	91	<0.2	1.0	<0.2	1.0								
						6.5	0.2	331	24.7	8.0	8.0	33.3	33.3	115.9	115.9	8.0	8.0	16.3	9	91	91	<0.2	1.0	<0.2	1.0								
					IM10	Cloudy	Moderate	09:58	8.0	Surface	1.0	0.5	322	24.8	24.8	8.0	8.0	33.5	33.5	121.4	121.4	8.3	8.3	5.7	5	84	83	822369	809789	<0.2	1.1	<0.2	1.1
											1.0	0.5	343	24.8	8.0	8.0	33.5	33.6	121.4	117.9	8.3	8.1	5.7	5	83	83	<0.2	1.1	<0.2	1.1			
											4.0	0.5	318	24.7	8.0	8.0	33.6	33.6	117.9	117.9	8.1	8.1	8.3	5	83	88	<0.2	1.2	<0.2	1.1			
Middle	4.0	0.5	346	24.7						8.0	8.0	33.6	33.6	117.9	117.9	8.1	8.1	8.1	6	84	94	<0.2	1.0	<0.2	1.1								
	7.0	0.4	317	24.7						8.0	8.0	33.7	33.7	115.8	115.9	7.9	8.0	11.9	6	94	95	<0.2	1.1	<0.2	1.1								
	7.0	0.4	338	24.7						8.0	8.0	33.7	33.7	115.9	115.9	8.0	8.0	12.1	5	95	95	<0.2	1.2	<0.2	1.2								
IM11	Cloudy	Moderate	09:47	8.8						Surface	1.0	0.6	273	24.7	24.7	8.0	8.0	34.1	34.1	120.1	120.1	8.2	8.2	5.5	6	84	83	822062	811469	<0.2	1.1	<0.2	1.0
											1.0	0.6	285	24.7	8.0	8.0	34.1	34.2	120.1	120.1	8.2	8.2	5.4	5	83	88	<0.2	1.0	<0.2	1.0			
											4.4	0.5	285	24.7	8.0	8.0	34.2	34.2	120.0	120.1	8.2	8.2	6.5	5	88	91	<0.2	1.0	<0.2	1.0			
					Middle	4.4	0.6	292	24.7	8.0	8.0	34.2	34.2	120.1	120.1	8.2	8.2	6.6	5	88	91	<0.2	1.0	<0.2	1.1								
						7.8	0.4	274	24.7	8.1	8.1	34.3	34.3	120.0	120.0	8.2	8.2	6.6	4	91	91	<0.2	0.9	<0.2	1.1								
						7.8	0.4	283	24.7	8.1	8.1	34.3	34.3	119.9	119.9	8.2	8.2	6.7	5	91	91	<0.2	1.1	<0.2	1.1								
					IM12	Cloudy	Moderate	09:42	8.6	Surface	1.0	0.5	294	24.7	24.7	8.1	8.1	34.3	34.3	120.7	120.8	8.3	8.3	7.0	5	87	87	821454	812029	<0.2	0.8	<0.2	0.6
											1.0	0.5	307	24.7	8.1	8.1	34.3	34.3	120.8	119.5	8.3	8.2	7.0	6	87	91	<0.2	0.8	<0.2	0.8			
											4.3	0.5	303	24.7	8.1	8.1	34.3	34.3	119.4	119.4	8.2	8.1	11.6	8	91	93	<0.2	0.8	<0.2	0.7			
Middle	4.3	0.5	305	24.7						8.1	8.1	34.3	34.3	119.5	119.4	8.2	8.2	11.9	8	91	93	<0.2	0.8	<0.2	0.8								
	7.6	0.4	294	24.6						8.1	8.1	34.3	34.3	119.4	119.4	8.2	8.2	9.3	9	93	93	<0.2	0.7	<0.2	0.8								
	7.6	0.4	320	24.6						8.1	8.1	34.3	34.3	119.4	119.4	8.2	8.2	9.5	9	93	93	<0.2	0.8	<0.2	0.8								
SR1A	Cloudy	Moderate	09:23	5.1						Surface	1.0	-	-	24.7	24.7	8.0	8.0	34.3	34.3	119.5	119.6	8.2	8.2	6.7	6	-	-	819979	812654	-	-	-	-
											1.0	-	-	24.7	24.7	8.0	8.0	34.3	34.3	119.6	119.6	8.2	8.2	6.8	5	-	-	-	-	-	-		
											2.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
					Middle	2.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
						4.1	-	-	24.7	24.7	8.0	8.0	34.3	34.3	116.0	116.0	7.9	7.9	11.4	8	-	-	-	-	-	-							
						4.1	-	-	24.7	24.7	8.0	8.0	34.3	34.3	115.9	115.9	7.9	7.9	11.5	10	-	-	-	-	-	-							
					SR2	Cloudy	Moderate	09:11	4.6	Surface	1.0	0.3	327	24.7	24.7	8.0	8.0	34.2	34.2	116.5	116.6	8.0	8.0	13.7	11	87	86	821466	814185	<0.2	1.4	<0.2	1.5
											1.0	0.3	346	24.7	8.0	8.0	34.2	34.2	116.6	116.6	8.0	8.0	13.9	11	86	89	<0.2	1.1	<0.2	1.0			
											-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Middle	-	-	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
	3.6	0.2	322	24.6						8.0	8.0	34.2	34.2	115.2	115.2	7.9	7.9	14.8	13	89	89	<0.2	1.1	<0.2	1.0								
	3.6	0.2	326	24.6						8.0	8.0	34.2	34.2	115.1	115.1	7.9	7.9	14.6	13	89	89	<0.2	1.0	<0.2	1.0								
SR3	Cloudy	Moderate	10:16	9.1						Surface	1.0	0.1	300	24.9	24.9	8.0	8.0	32.0	32.0	121.0	121.1	8.4	8.4	4.4	4	-	-	822134	807594	-	-	-	-
											1.0	0.2	321	24.9	8.0	8.0	32.0	32.2	121.1	114.6	8.4	7.9	4.4	3	-	-	-	-					
											4.6	0.1	329	24.9	8.0	8.0	32.2	32.2	114.6	114.6	7.9	7.9	6.8	4	-	-	-	-					
					Middle	4.6	0.1	349	24.9	8.0	8.0	32.2	32.2	114.5	114.6	7.9	7.9	6.8	4	-	-	-	-										
						8.1	0.2	24	24.9	8.0	8.0	32.5	32.5	113.5	113.4	7.8	7.8	5.9	3	-	-	-	-										
						8.1	0.2	25	24.9	8.0	8.0	32.5	32.5	113.3	113.4	7.8	7.8	5.9	4	-	-	-	-										
					SR4A	Cloudy	Moderate	09:48	8.5	Surface	1.0	0.1	83	24.6	24.6	8.1	8.1	33.3	33.3	119.4	119.4	8.2	8.2	3.4	4	-	-	817193	807803	-	-	-	-
											1.0	0.1	88	24.6	8.1	8.1	33.3	33.3	119.3	118.2	8.2	8.2	3.5	4	-	-	-	-					
											4.3	0.1	86	24.5	8.1	8.1	33.3	33.3	118.2	118.2	8.2	8.1	3.9	5	-	-	-	-					
Middle	4.3	0.1	87	24.5						8.1	8.1	33.3	33.3	118.1	118.1	8.1	8.1	3.9	6	-	-	-	-										
	7.5	0.1	74	24.5						8.1	8.1	33.3	33.3	117.7	117.7	8.1	8.1	3.7	6	-	-	-	-										
	7.5	0.1	81	24.5						8.1	8.1	33.3	33.3	117.7	117.7	8.1	8.1	3.7	6	-	-	-	-										
SR5A	Cloudy	Moderate	09:30	4.5						Surface	1.0	0.2	287	24.5	24.5	8.1	8.1	33.2	33.2	117.2	117.1	8.1	8.1	5.0	7	-	-	816600	810713	-	-	-	-
											1.0	0.2	289	24.5	8.1	8.1	33.2	33.2	117.0	117.0	8.1	8.1	4.7	6	-	-	-	-					
											-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-									
						3.5	0.2	289	24.3	8.1	8.1	33.3	33.3	116.4	116.3	8.1	8.1	4.8	7	-	-	-	-										
						3.5	0.2	301	24.3	8.1	8.1	33.3	33.3	116.2	116.3	8.0	8.1	4.8	8	-	-	-	-										
					SR6A	Cloudy	Moderate	09:04	4.0	Surface	1.0	0.0	234	24.5	24.5	8.1	8.1	33.1	33.1	122.8	122.8	8.5	8.5	3.5	5	-	-	817967	814726	-	-	-	-
											1.0	0.0	250	24.5	8.1	8.1	33.1	33.1	122.7	122.7	8.5	8.5	3.5	5	-	-	-	-					
											-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Middle	-	-	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-									
	3.0	0.0	241	24.5						8.1	8.1	33.1	33.1	120.9	120.8	8.4	8.4	4.4	5	-	-	-	-										
	3.0	0.0	260	24.5						8.1	8.1	33.1	33.1	120.7	120.8	8.3	8.4	4.4	6	-	-	-	-										
SR7	Cloudy																																

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

Water Quality Monitoring

Water Quality Monitoring Results on 19 November 19 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	
C1	Cloudy	Rough	05:28	8.7	Surface	1.0	0.3	124	24.1	24.1	8.1	8.1	32.0	32.0	110.6	110.6	7.7	7.7	6.1	6.1	10	10	85	85			<0.2	1.1					
						1.0	0.3	126	24.1	24.1	8.1	8.1	32.0	32.0	110.5	110.5	7.7	7.7	6.2	6.2	10	10	86	86			<0.2	1.2					
						4.4	0.3	121	24.1	24.1	8.1	8.1	32.0	32.0	108.5	108.5	7.6	7.6	12.4	12.4	8	8	89	89			<0.2	0.9					
					Middle	4.4	0.3	122	24.1	24.1	8.1	8.1	32.0	32.0	108.4	108.4	7.6	7.6	12.2	12.2	8	8	89	89			<0.2	0.8					
						7.7	0.2	161	24.1	24.1	8.1	8.1	32.0	32.0	109.2	109.2	7.6	7.6	15.3	15.3	8	8	90	90			<0.2	0.8					
						7.7	0.2	177	24.1	24.1	8.1	8.1	32.0	32.0	109.3	109.3	7.7	7.7	15.3	15.3	8	8	91	91			<0.2	1.0					
C2	Fine	Rough	06:07	8.2	Surface	1.0	0.1	40	24.7	24.7	8.1	8.1	30.0	30.0	125.0	125.0	8.8	8.8	1.5	1.5	4	4	86	86			<0.2	1.2					
						1.0	0.1	36	24.7	24.7	8.1	8.1	30.0	30.0	125.0	125.0	8.8	8.8	1.5	1.5	3	3	85	85			<0.2	1.1					
						4.1	0.3	34	24.7	24.7	8.0	8.0	30.0	30.1	121.6	121.5	8.5	8.5	1.9	1.9	3	3	88	88			<0.2	0.9					
					Middle	4.1	0.3	38	24.7	24.7	8.0	8.0	30.1	30.1	121.3	121.3	8.5	8.5	1.9	1.9	4	4	90	90			<0.2	1.0					
						7.2	0.3	34	24.6	24.6	8.1	8.1	30.2	30.2	112.8	112.8	7.9	7.9	2.7	2.7	3	3	93	93			<0.2	1.0					
						7.2	0.3	35	24.6	24.6	8.1	8.1	30.2	30.2	112.8	112.8	7.9	7.9	2.7	2.7	2	2	93	93			<0.2	0.9					
C3	Fine	Rough	04:02	12.4	Surface	1.0	0.2	122	24.6	24.6	8.0	8.0	31.3	31.3	115.0	115.0	8.0	8.0	1.7	1.7	2	2	83	83			<0.2	1.0					
						1.0	0.2	136	24.6	24.6	8.0	8.0	31.3	31.3	114.9	114.9	8.0	8.0	1.7	1.7	3	3	83	83			<0.2	1.2					
						6.2	0.2	125	24.6	24.6	7.9	7.9	32.2	32.2	101.8	101.8	7.1	7.1	4.3	4.3	4	4	87	87			<0.2	0.8					
					Middle	6.2	0.3	141	24.6	24.6	7.9	7.9	32.2	32.2	101.7	101.7	7.0	7.0	4.3	4.3	2	2	88	88			<0.2	0.9					
						11.4	0.2	134	24.6	24.6	7.9	7.9	32.3	32.3	102.2	102.4	7.1	7.1	6.1	6.1	4	4	92	92			<0.2	0.9					
						11.4	0.2	136	24.6	24.6	7.9	7.9	32.3	32.3	102.5	102.4	7.1	7.1	6.1	6.1	2	2	91	91			<0.2	1.0					
IM1	Cloudy	Rough	05:50	5.6	Surface	1.0	0.1	208	24.4	24.4	8.2	8.2	31.5	31.5	124.1	123.8	8.7	8.7	4.4	4.4	6	6	86	86			<0.2	0.9					
						1.0	0.1	200	24.4	24.4	8.2	8.2	31.5	31.5	123.5	123.5	8.6	8.6	4.8	4.8	7	7	87	87			<0.2	1.0					
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
						4.6	0.2	218	24.4	24.4	8.2	8.2	31.7	31.7	121.0	121.1	8.4	8.4	8.6	8.6	6	6	90	90			<0.2	1.2					
						4.6	0.2	202	24.4	24.4	8.2	8.2	31.7	31.7	121.1	121.1	8.4	8.4	8.7	8.7	7	7	90	90			<0.2	1.2					
IM2	Cloudy	Rough	05:57	7.2	Surface	1.0	0.2	174	24.1	24.1	8.1	8.1	31.8	31.8	117.1	117.1	8.2	8.2	5.2	5.2	8	8	86	86			<0.2	0.9					
						1.0	0.2	185	24.1	24.1	8.1	8.1	31.8	31.8	117.1	117.1	8.2	8.2	5.2	5.2	8	8	86	86			<0.2	0.9					
						3.6	0.2	167	24.1	24.1	8.1	8.1	31.8	31.8	116.4	116.3	8.2	8.2	5.2	5.2	7	7	87	87			<0.2	0.8					
					Middle	3.6	0.2	174	24.1	24.1	8.1	8.1	31.8	31.8	116.2	116.2	8.1	8.1	5.2	5.2	8	8	89	89			<0.2	0.9					
						6.2	0.2	213	24.2	24.2	8.1	8.1	31.8	31.8	115.2	115.2	8.1	8.1	13.0	13.0	7	7	90	90			<0.2	0.8					
						6.2	0.2	198	24.1	24.1	8.1	8.1	31.8	31.8	115.1	115.1	8.1	8.1	13.0	13.0	7	7	90	90			<0.2	0.7					
IM3	Cloudy	Rough	06:04	7.5	Surface	1.0	0.3	154	24.1	24.1	8.1	8.1	32.1	32.1	109.3	109.3	7.6	7.6	7.3	7.3	12	12	85	85			<0.2	1.0					
						1.0	0.4	155	24.1	24.1	8.1	8.1	32.1	32.1	109.3	109.3	7.6	7.6	7.4	7.4	11	11	86	86			<0.2	1.1					
						3.8	0.3	141	24.1	24.1	8.1	8.1	32.1	32.1	110.4	110.4	7.7	7.7	9.8	9.8	12	12	88	88			<0.2	1.0					
					Middle	3.8	0.3	157	24.1	24.1	8.1	8.1	32.1	32.1	110.4	110.4	7.7	7.7	9.8	9.8	11	11	88	88			<0.2	1.0					
						6.5	0.2	163	24.1	24.1	8.1	8.1	32.1	32.1	111.5	111.6	7.8	7.8	10.4	10.4	13	13	90	90			<0.2	1.0					
						6.5	0.2	165	24.1	24.1	8.1	8.1	32.1	32.1	111.7	111.7	7.8	7.8	10.6	10.6	12	12	90	90			<0.2	0.9					
IM4	Cloudy	Rough	06:13	7.6	Surface	1.0	0.4	213	24.1	24.1	8.1	8.1	32.4	32.3	107.3	107.3	7.5	7.5	8.4	8.4	7	7	86	86			<0.2	1.0					
						1.0	0.5	230	24.1	24.1	8.1	8.1	32.3	32.3	107.3	107.3	7.5	7.5	8.8	8.8	6	6	86	86			<0.2	1.2					
						3.8	0.4	225	24.0	24.0	8.1	8.1	32.3	32.3	107.4	107.5	7.5	7.5	10.9	10.9	8	8	88	88			<0.2	1.0					
					Middle	3.8	0.4	211	24.0	24.0	8.1	8.1	32.3	32.3	107.5	107.5	7.5	7.5	10.9	10.9	8	8	87	87			<0.2	1.0					
						6.6	0.4	202	24.0	24.0	8.1	8.1	32.3	32.3	108.0	108.0	7.6	7.6	12.7	12.7	11	11	90	90			<0.2	1.0					
						6.6	0.4	204	24.0	24.0	8.1	8.1	32.3	32.3	108.0	108.0	7.6	7.6	12.7	12.7	10	10	90	90			<0.2	1.2					
IM5	Cloudy	Rough	06:19	7.7	Surface	1.0	0.7	205	24.1	24.1	8.1	8.1	32.0	32.0	109.1	109.1	7.6	7.6	8.3	8.3	10	10	86	86			<0.2	1.0					
						1.0	0.7	216	24.1	24.1	8.1	8.1	32.0	32.0	109.0	109.0	7.6	7.6	8.7	8.7	11	11	86	86			<0.2	1.1					
						3.9	0.6	210	24.1	24.1	8.1	8.1	32.0	32.0	109.3	109.4	7.6	7.6	9.6	9.6	11	11	88	88			<0.2	1.1					
					Middle	3.9	0.6	197	24.1	24.1	8.1	8.1	32.0	32.0	109.5	109.5	7.7	7.7	9.6	9.6	10	10	88	88			<0.2	1.1					
						6.7	0.4	214	24.1	24.1	8.1	8.1	32.0	32.0	111.0	111.2	7.8	7.8	9.6	9.6	10	10	90	90			<0.2	1.1					
						6.7	0.5	200	24.1	24.1	8.1	8.1	32.0	32.0	111.3	111.3	7.8	7.8	9.6	9.6	10	10	91	91			<0.2	1.1					
IM6	Cloudy	Rough	06:29	7.5	Surface	1.0	0.3	194	24.4	24.4	8.2	8.2	31.7	31.7	119.9	119.9	8.4	8.4	5.2	5.2	10	10	86	86			<0.2	0.9					
						1.0	0.4	195	24.4	24.4	8.2	8.2	31.7	31.7	119.8	119.8	8.4	8.4	5.2	5.2	11	11	86	86			<0.2	1.0					
						3.8	0.3	199	24.4	24.4	8.2	8.2	31.7	31.7	119.9	119.9	8.4	8.4	5.1	5.1	8	8	87	87			<0.2	1.1					
					Middle	3.8	0.3	202	24.4	24.4	8.2	8.2	31.7	31.7	119.9	119.9	8.4	8.4	5.1	5.1	9	9	88	88			<0.2	1.2					
						6.5	0.3	207	24.3	24.3	8.2	8.2	31.7	31.7	118.3	118.3	8.3	8.3	4.5	4.5	8	8	91	91			<0.2	1.2					
						6.5	0.3	209	24.3	24.3	8.2	8.2	31.7	31.7	118.2	118.2	8.3	8.3	4.6	4.6	9	9	91	91			<0.2	1.1					
IM7	Cloudy	Rough	06:40	7.5	Surface	1.0	0.1	183	24.5	24.5	8.2	8.2	31.2	31.2	124.1	123.9	8.7	8.7	2.6	2.6	5	5	86	86			<0.2	1.2					
						1.0	0.2	188	24.5	24.5	8.2	8.2	31.2	31.2	123.7	123.7	8.6	8.6	2.7	2.7	5	5	86	86			<0.2	1.1					
						3.8	0.3	174	24.4	24.4	8.2	8.2	31.4	31.4	122.7	122.6	8.6	8.6	3.0	3.0	5	5	88	88			<0.2	0.8					
					Middle	3.8	0.3	186	24.4	24.4	8.2	8.2	31.4	31.4	122.5	122.5	8.6	8.6															



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

Water Quality Monitoring Results on 19 November 19 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	Cloudy	Rough	17:03	8.6	Surface	1.0	0.3	1	24.3	24.3	8.1	8.1	32.6	32.6	107.8	107.8	7.5	7.5	6.2	9	86	88	815628	804248	<0.2	0.9	<0.2	1.1					
						1.0	0.3	1	24.3	24.3	8.1	8.1	32.6	32.6	107.7	107.7	7.5	7.5	6.1	9	87	87			<0.2	1.0	<0.2	1.0					
					Middle	4.3	0.4	21	24.4	24.4	8.1	8.1	32.7	32.7	106.5	106.4	7.4	7.4	5.9	9	87	87			<0.2	1.0	<0.2	1.0	<0.2	1.0			
						4.3	0.4	21	24.4	24.4	8.1	8.1	32.7	32.7	106.3	106.3	7.4	7.4	6.0	8	87	87			<0.2	1.0	<0.2	1.0					
					Bottom	7.6	0.3	18	24.3	24.3	8.1	8.1	33.0	33.0	105.8	105.9	7.3	7.3	8.5	7	90	89			<0.2	1.0	<0.2	1.0	<0.2	1.0			
						7.6	0.3	18	24.3	24.3	8.1	8.1	33.0	33.0	105.9	105.9	7.3	7.3	8.5	8	90	89			<0.2	1.0	<0.2	1.0	<0.2	0.9			
C2	Cloudy	Rough	15:56	8.3	Surface	1.0	0.5	352	24.6	24.6	8.1	8.1	29.8	29.8	126.2	126.2	8.9	1.8	5	83	88	825705	806960	<0.2	1.1	<0.2	1.0	<0.2	1.0				
						1.0	0.5	358	24.6	24.6	8.1	8.1	29.8	29.8	126.2	126.2	8.9	1.9	5	84	88			<0.2	1.0	<0.2	1.0						
					Middle	4.2	0.4	356	24.5	24.5	8.0	8.0	30.0	30.0	119.5	119.4	8.4	2.4	5	88	89			<0.2	1.0	<0.2	1.0	<0.2	1.0				
						4.2	0.4	328	24.5	24.5	8.0	8.0	30.1	30.1	119.3	119.3	8.4	2.4	5	89	89			<0.2	1.0	<0.2	1.0						
					Bottom	7.3	0.4	336	24.2	24.2	8.0	8.0	30.1	30.1	117.1	117.1	8.3	3.2	5	91	91			<0.2	1.1	<0.2	1.1	<0.2	1.1				
						7.3	0.4	309	24.2	24.2	8.0	8.0	30.1	30.1	117.0	117.0	8.3	3.2	5	92	92			<0.2	1.0	<0.2	0.9						
C3	Cloudy	Rough	18:05	10.8	Surface	1.0	0.5	287	24.7	24.7	8.0	8.0	32.7	32.7	101.3	101.3	7.0	2.3	5	83	88	822111	817793	<0.2	1.0	<0.2	1.1	<0.2	1.0				
						1.0	0.6	300	24.7	24.7	8.0	8.0	32.7	32.7	101.3	101.3	7.0	2.4	5	84	88			<0.2	1.1	<0.2	1.1						
					Middle	5.4	0.5	285	24.7	24.7	8.0	8.0	32.7	32.7	100.7	100.7	6.9	2.8	5	88	88			<0.2	1.0	<0.2	1.0	<0.2	1.0				
						5.4	0.5	286	24.7	24.7	8.0	8.0	32.7	32.7	100.7	100.7	6.9	2.8	6	88	88			<0.2	0.9	<0.2	1.1	<0.2	1.1				
					Bottom	9.8	0.3	294	24.7	24.7	8.0	8.0	32.7	32.7	101.0	101.1	7.0	2.4	5	91	91			<0.2	1.1	<0.2	1.1	<0.2	1.0				
						9.8	0.3	306	24.7	24.7	8.0	8.0	32.7	32.7	101.1	101.1	7.0	2.4	7	91	91			<0.2	1.0	<0.2	1.0						
IM1	Cloudy	Rough	16:42	5.3	Surface	1.0	0.2	4	24.4	24.4	8.2	8.2	31.8	31.8	123.4	123.3	8.6	5.2	4	86	88	817960	807108	<0.2	1.0	<0.2	1.1	<0.2	1.0				
						1.0	0.3	4	24.4	24.4	8.2	8.2	31.8	31.8	123.1	123.1	8.6	5.5	5	86	88			<0.2	1.1	<0.2	1.1						
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					Bottom	4.3	0.2	343	24.3	24.3	8.2	8.2	31.8	31.8	119.5	118.8	8.3	6.8	4	90	90			<0.2	0.9	<0.2	1.1	<0.2	1.1				
						4.3	0.2	316	24.3	24.3	8.2	8.2	31.8	31.8	118.1	118.1	8.2	7.0	5	91	91			<0.2	1.1	<0.2	1.1						
IM2	Cloudy	Rough	16:35	7.2	Surface	1.0	0.1	348	24.2	24.2	8.1	8.1	32.2	32.2	108.4	108.3	7.6	5.5	6	86	88	818177	806153	<0.2	1.7	<0.2	1.7	<0.2	1.6				
						1.0	0.1	359	24.2	24.2	8.1	8.1	32.2	32.2	108.1	108.1	7.5	5.9	5	87	87			<0.2	1.7	<0.2	1.7						
					Middle	3.6	0.1	350	24.3	24.3	8.1	8.1	32.5	32.5	106.6	106.5	7.4	7.2	4	87	87			<0.2	1.7	<0.2	1.7	<0.2	1.6				
						3.6	0.1	322	24.3	24.3	8.1	8.1	32.5	32.5	106.4	106.4	7.4	7.2	6	88	88			<0.2	1.5	<0.2	1.5						
					Bottom	6.2	0.1	11	24.4	24.4	8.1	8.1	33.0	33.0	105.6	105.6	7.3	12.9	6	90	90			<0.2	1.6	<0.2	1.6						
						6.2	0.2	11	24.4	24.4	8.1	8.1	33.0	33.0	105.6	105.6	7.3	12.9	6	90	90			<0.2	1.6	<0.2	1.6						
IM3	Cloudy	Rough	16:26	7.2	Surface	1.0	0.1	319	24.4	24.4	8.1	8.1	33.0	33.0	105.2	105.2	7.3	5.9	5	86	88	818802	805591	<0.2	1.4	<0.2	1.4	<0.2	1.4				
						1.0	0.1	319	24.4	24.4	8.1	8.1	33.0	33.0	105.2	105.2	7.3	6.0	6	86	88			<0.2	1.4	<0.2	1.4						
					Middle	3.6	0.1	17	24.4	24.4	8.1	8.1	33.0	33.0	104.9	104.9	7.3	6.1	5	87	87			<0.2	1.4	<0.2	1.4	<0.2	1.4				
						3.6	0.1	17	24.4	24.4	8.1	8.1	33.0	33.0	104.9	104.9	7.3	6.2	6	88	88			<0.2	1.4	<0.2	1.4						
					Bottom	6.2	0.2	43	24.4	24.4	8.1	8.1	33.0	33.0	105.9	106.0	7.3	7.3	7	90	90			<0.2	1.4	<0.2	1.4						
						6.2	0.2	46	24.4	24.4	8.1	8.1	33.0	33.0	106.1	106.1	7.4	7.2	7	90	90			<0.2	1.5	<0.2	1.5						
IM4	Cloudy	Rough	16:18	7.7	Surface	1.0	0.1	223	24.3	24.3	8.1	8.1	32.8	32.8	107.8	107.8	7.5	5.1	4	86	88	819714	804615	<0.2	1.7	<0.2	1.5	<0.2	1.5				
						1.0	0.1	228	24.3	24.3	8.1	8.1	32.8	32.8	107.7	107.7	7.5	5.1	4	87	87			<0.2	1.5	<0.2	1.5						
					Middle	3.9	0.0	282	24.3	24.3	8.1	8.1	32.9	32.9	107.0	107.0	7.4	6.2	5	87	87			<0.2	1.6	<0.2	1.6						
						3.9	0.0	295	24.3	24.3	8.1	8.1	32.9	32.9	106.9	106.9	7.4	6.6	4	88	88			<0.2	1.5	<0.2	1.5						
					Bottom	6.7	0.1	109	24.3	24.3	8.1	8.1	32.9	32.9	107.1	107.2	7.4	7.4	4	90	90			<0.2	1.4	<0.2	1.4						
						6.7	0.1	116	24.3	24.3	8.1	8.1	32.9	32.9	107.3	107.3	7.4	7.4	4	90	90			<0.2	1.4	<0.2	1.4						
IM5	Cloudy	Rough	16:09	7.4	Surface	1.0	0.0	242	24.2	24.2	8.1	8.1	32.5	32.5	106.3	106.3	7.4	8.8	6	86	88	820718	804864	<0.2	1.9	<0.2	2.0	<0.2	1.9				
						1.0	0.0	255	24.2	24.2	8.1	8.1	32.5	32.5	106.3	106.3	7.4	8.8	6	86	88			<0.2	2.0	<0.2	2.0						
					Middle	3.7	0.0	13	24.2	24.2	8.1	8.1	32.5	32.5	106.5	106.5	7.4	10.0	6	88	88			<0.2	1.1	<0.2	1.1						
						3.7	0.0	13	24.2	24.2	8.1	8.1	32.5	32.5	106.5	106.5	7.4	9.8	5	87	87			<0.2	1.0	<0.2	1.0						
					Bottom	6.4	0.0	314	24.2	24.2	8.1	8.1	32.5	32.5	107.6	107.8	7.5	11.4	6	89	89			<0.2	1.1	<0.2	1.1						
						6.4	0.0	338	24.2	24.2	8.1	8.1	32.5	32.5	107.9	107.9	7.5	11.1	5	90	90			<0.2	1.0	<0.2	1.0						
IM6	Cloudy	Rough	16:02	7.7	Surface	1.0	0.1	347	24.4	24.4	8.2	8.2	31.7	31.7	120.1	120.1	8.4	5.0	6	86	88	821060	805807	<0.2	0.9	<0.2	0.9						
						1.0	0.1	319	24.4	24.4	8.2	8.2	31.7	31.7	120.1	120.1	8.4	5.0	6	86	88			<0.2	0.9	<0.2	0.9						
					Middle	3.9	0.1	48	24.4	24.4	8.2	8.2	31.7	31.7	119.7	119.7	8.4	4.9	6	87	87												

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

Water Quality Monitoring Results on 19 November 19 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	Rough	16:37	8.0	Surface	1.0	0.1	231	24.4	24.4	8.2	8.2	30.1	30.1	122.8	122.8	8.6	8.6	3.3	5	80	80	86	822091	808816	<0.2	1.0	<0.2	1.0						
						1.0	0.1	252	24.4	24.4	8.2	8.2	30.1	30.1	122.7	122.7	8.6	8.6	3.4	5	80	80	86	822091	808816	<0.2	1.0	<0.2	1.0						
						4.0	0.1	314	24.4	24.4	8.2	8.2	30.3	30.3	116.8	116.8	8.2	8.2	4.5	5	88	88	86	822091	808816	<0.2	1.0	<0.2	1.0						
					Middle	4.0	0.1	333	24.4	24.4	8.2	8.2	30.4	30.4	116.4	116.6	8.2	8.2	4.6	6	88	88	86	822091	808816	<0.2	1.0	<0.2	1.0						
						7.0	0.1	9	24.3	24.3	8.2	8.2	30.4	30.4	114.7	114.7	8.1	8.1	5.2	6	91	91	86	822091	808816	<0.2	1.0	<0.2	1.0						
						7.0	0.1	9	24.3	24.3	8.2	8.2	30.4	30.4	114.6	114.6	8.1	8.1	5.2	5	91	91	86	822091	808816	<0.2	1.0	<0.2	1.0						
					IM10	Cloudy	Rough	16:43	7.6	Surface	1.0	0.5	312	24.4	24.4	8.2	8.2	30.2	30.2	125.1	125.0	8.8	8.8	2.1	4	83	83	88	822406	809805	<0.2	1.0	<0.2	1.0	
											1.0	0.6	341	24.4	24.4	8.2	8.2	30.2	30.2	124.9	124.9	8.8	8.8	2.1	5	84	84	88	822406	809805	<0.2	1.0	<0.2	1.0	
											3.8	0.5	309	24.5	24.5	8.2	8.2	30.8	30.8	123.7	123.8	8.7	8.7	3.2	5	88	88	88	822406	809805	<0.2	0.9	<0.2	0.9	
Middle	3.8	0.5	337	24.5						24.5	8.2	8.2	30.8	30.8	123.9	123.9	8.7	8.7	3.2	5	88	88	88	822406	809805	<0.2	0.9	<0.2	0.9						
	6.6	0.4	338	24.5						24.5	8.2	8.2	30.9	30.9	115.6	115.5	8.1	8.1	3.8	5	91	91	88	822406	809805	<0.2	0.9	<0.2	0.9						
	6.6	0.5	352	24.5						24.5	8.2	8.2	30.9	30.9	115.4	115.4	8.1	8.1	3.8	6	91	91	88	822406	809805	<0.2	0.9	<0.2	0.9						
IM11	Cloudy	Rough	16:53	7.4						Surface	1.0	0.5	272	24.5	24.5	8.1	8.1	31.0	31.0	122.8	122.7	8.6	8.6	2.2	6	83	83	87	822065	811480	<0.2	1.0	<0.2	1.2	
											1.0	0.5	293	24.5	24.5	8.1	8.1	31.0	31.0	122.6	122.6	8.6	8.6	2.2	6	84	84	87	822065	811480	<0.2	1.0	<0.2	1.2	
											3.7	0.5	297	24.5	24.5	8.1	8.1	31.1	31.1	119.9	119.9	8.4	8.4	2.6	6	87	87	87	822065	811480	<0.2	1.1	<0.2	0.9	
					Middle	3.7	0.5	309	24.5	24.5	8.1	8.1	31.1	31.1	119.8	119.8	8.4	8.4	2.6	5	87	87	87	822065	811480	<0.2	1.1	<0.2	0.9						
						6.4	0.4	289	24.6	24.6	8.2	8.2	31.3	31.3	112.6	112.6	7.9	7.9	3.6	6	91	91	87	822065	811480	<0.2	0.9	<0.2	0.9						
						6.4	0.4	301	24.6	24.6	8.2	8.2	31.3	31.3	112.5	112.5	7.8	7.8	3.6	4	92	92	87	822065	811480	<0.2	1.0	<0.2	1.0						
					IM12	Cloudy	Rough	17:01	7.3	Surface	1.0	0.5	257	24.5	24.5	8.1	8.1	31.2	31.2	117.1	117.1	8.2	8.2	3.5	4	83	83	88	821449	812048	<0.2	1.0	<0.2	1.1	
											1.0	0.5	257	24.5	24.5	8.1	8.1	31.2	31.2	117.0	117.0	8.2	8.2	3.5	4	87	87	88	821449	812048	<0.2	1.0	<0.2	1.1	
											3.7	0.3	266	24.5	24.5	8.1	8.1	31.3	31.3	115.3	115.2	8.0	8.0	3.8	4	88	88	88	821449	812048	<0.2	1.1	<0.2	1.1	
Middle	3.7	0.3	278	24.5						24.5	8.1	8.1	31.3	31.3	115.1	115.1	8.0	8.0	3.8	5	88	88	88	821449	812048	<0.2	1.1	<0.2	1.1						
	6.3	0.4	266	24.6						24.6	8.1	8.1	31.7	31.7	105.6	105.6	7.3	7.3	5.2	5	91	91	88	821449	812048	<0.2	1.2	<0.2	1.1						
	6.3	0.4	277	24.6						24.6	8.1	8.1	31.7	31.7	105.6	105.6	7.3	7.3	5.3	4	91	91	88	821449	812048	<0.2	1.1	<0.2	1.1						
SR1A	Cloudy	Rough	17:27	4.2						Surface	1.0	-	-	24.4	24.4	8.1	8.1	30.8	30.8	122.7	122.8	8.6	8.6	4.4	4	-	-	-	819977	812663	-	-	-	-	
											1.0	-	-	24.4	24.4	8.1	8.1	30.8	30.8	122.8	122.8	8.6	8.6	4.4	4	-	-	-	819977	812663	-	-	-	-	
											2.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	819977	812663	-	-	-
					Middle	2.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	819977	812663	-	-	-	-				
						3.2	-	-	24.5	24.5	8.1	8.1	30.8	30.8	122.4	122.4	8.6	8.6	8.1	6	-	-	-	-	-	819977	812663	-	-	-	-				
						3.2	-	-	24.5	24.5	8.1	8.1	30.8	30.8	122.3	122.3	8.6	8.6	8.1	6	-	-	-	-	-	819977	812663	-	-	-	-				
					SR2	Cloudy	Rough	17:44	3.6	Surface	1.0	0.4	322	24.5	24.5	8.2	8.2	31.1	31.1	117.5	117.6	8.2	8.2	3.0	8	83	83	87	821456	814152	<0.2	1.4	<0.2	1.5	
											1.0	0.4	333	24.5	24.5	8.2	8.2	31.1	31.1	117.5	117.5	8.2	8.2	3.0	7	83	83	87	821456	814152	<0.2	1.4	<0.2	1.5	
											-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	821456	814152	<0.2	1.1	<0.2
Middle	-	-	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	821456	814152	<0.2	1.1	<0.2	1.1				
	2.6	0.3	322	24.5						24.5	8.1	8.1	31.3	31.3	114.8	114.7	8.0	8.0	2.6	8	91	91	87	821456	814152	<0.2	1.1	<0.2	1.1						
	2.6	0.3	342	24.5						24.5	8.1	8.1	31.3	31.3	114.6	114.6	8.0	8.0	2.6	8	91	91	87	821456	814152	<0.2	1.1	<0.2	1.1						
SR3	Cloudy	Rough	16:28	8.2						Surface	1.0	0.1	12	24.5	24.5	8.1	8.1	30.1	30.1	125.2	125.2	8.8	8.8	2.4	4	-	-	-	822167	807586	-	-	-	-	
											1.0	0.1	13	24.5	24.5	8.1	8.1	30.1	30.1	125.1	125.1	8.8	8.8	2.4	4	-	-	-	-	822167	807586	-	-	-	-
											4.1	0.2	325	24.5	24.5	8.1	8.1	30.3	30.3	121.0	121.0	8.5	8.5	3.9	5	-	-	-	-	822167	807586	-	-	-	-
					Middle	4.1	0.2	337	24.5	24.5	8.1	8.1	30.3	30.3	120.9	120.9	8.5	8.5	3.9	4	-	-	-	-	822167	807586	-	-	-	-					
						7.2	0.2	356	24.3	24.3	8.0	8.0	30.8	30.8	113.0	113.0	7.9	7.9	7.5	4	-	-	-	-	822167	807586	-	-	-	-					
						7.2	0.2	328	24.3	24.3	8.0	8.0	30.8	30.8	112.9	112.9	7.9	7.9	7.5	5	-	-	-	-	822167	807586	-	-	-	-					
					SR4A	Cloudy	Rough	17:24	8.5	Surface	1.0	0.1	237	24.3	24.3	8.2	8.2	31.9	31.9	120.9	120.9	8.4	8.4	5.6	7	-	-	-	817199	807830	-	-	-	-	
											1.0	0.1	250	24.3	24.3	8.2	8.2	31.9	31.9	120.8	120.8	8.4	8.4	5.6	7	-	-	-	-	817199	807830	-	-	-	-
											4.3	0.1	242	24.3	24.3	8.2	8.2	31.9	31.9	119.7	119.7	8.4	8.4	5.5	8	-	-	-	-	817199	807830	-	-	-	-
Middle	4.3	0.1	262	24.3						24.3	8.2	8.2	32.0	31.9	119.6	119.7	8.3	8.3	5.5	7	-	-	-	-	817199	807830	-	-	-	-					
	7.5	0.1	248	24.3						24.3	8.2	8.2	31.9	31.9	117.6	117.5	8.2	8.2	5.6	7	-	-	-	-	817199	807830	-	-	-	-					
	7.5	0.1	262	24.3						24.3	8.2	8.2	31.9	31.9	117.3	117.3	8.2	8.2	5.6	8	-	-	-	-	817199	807830	-	-	-	-					
SR5A	Cloudy	Moderate	17:39	4.0						Surface	1.0	0.2	238	24.5	24.5	8.2	8.2	31.8	31.8	122.1	122.0	8.5													





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

Water Quality Monitoring Results on 21 November 19 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					
IM9	Cloudy	Moderate	21:45	7.3	Surface	1.0	0.3	161	24.3	24.3	8.2	8.2	30.9	30.9	110.7	110.8	7.8	7.8	1.7	2	87	88	88	822113	808814	<0.2	0.9	<0.2	0.8					
						1.0	0.3	174	24.3	8.2	8.2	30.9	30.9	110.8	110.8	7.8	7.8	1.7	3	87	88	88	822113	808814	<0.2	0.8	<0.2	0.8						
						3.7	0.2	121	24.3	8.1	8.1	31.3	31.3	110.3	110.3	7.7	7.7	1.8	4	88	89	89	822113	808814	<0.2	0.8	<0.2	0.8						
					Middle	3.7	0.2	130	24.3	8.1	8.1	31.3	31.3	110.3	110.3	7.7	7.7	1.8	3	87	88	89	822113	808814	<0.2	0.8	<0.2	0.8						
						6.3	0.3	35	24.1	8.1	8.1	31.6	31.6	107.7	107.7	7.6	7.6	3.1	4	89	89	89	822113	808814	<0.2	0.9	<0.2	0.8						
						6.3	0.3	37	24.1	8.1	8.1	31.6	31.6	107.7	107.7	7.6	7.6	3.0	3	89	89	89	822113	808814	<0.2	0.8	<0.2	0.8						
					IM10	Cloudy	Moderate	21:38	7.4	Surface	1.0	0.5	126	24.4	24.4	8.2	8.2	31.4	31.4	111.8	111.8	7.8	7.8	1.6	3	87	88	88	822396	809815	<0.2	0.9	<0.2	0.7
											1.0	0.5	128	24.4	8.2	8.2	31.4	31.4	111.8	111.8	7.8	7.8	1.6	3	87	88	88	822396	809815	<0.2	0.7	<0.2	0.8	
											3.7	0.5	115	24.3	8.1	8.1	31.5	31.5	110.0	110.0	7.7	7.7	1.9	4	88	89	89	822396	809815	<0.2	0.8	<0.2	0.8	
Middle	3.7	0.5	124	24.3						8.1	8.1	31.5	31.5	110.0	110.0	7.7	7.7	1.9	3	89	89	89	822396	809815	<0.2	0.8	<0.2	0.8						
	6.4	0.4	89	24.0						8.1	8.1	31.7	31.7	104.3	104.3	7.3	7.3	2.7	3	89	89	89	822396	809815	<0.2	0.8	<0.2	0.8						
	6.4	0.4	92	24.0						8.1	8.1	31.7	31.7	104.3	104.3	7.3	7.3	2.7	3	90	90	90	822396	809815	<0.2	0.9	<0.2	0.9						
IM11	Cloudy	Moderate	21:27	8.3						Surface	1.0	0.6	114	24.3	24.3	8.1	8.1	31.6	31.6	110.7	110.7	7.7	7.7	2.3	3	86	87	87	822056	811474	<0.2	0.7	<0.2	0.6
											1.0	0.6	115	24.3	8.1	8.1	31.6	31.6	110.7	110.7	7.7	7.7	2.3	3	87	88	88	822056	811474	<0.2	0.6	<0.2	0.7	
											4.2	0.5	100	24.2	8.0	8.0	31.6	31.6	109.0	109.0	7.6	7.6	2.3	4	88	89	89	822056	811474	<0.2	0.8	<0.2	0.8	
					Middle	4.2	0.5	109	24.2	8.0	8.0	31.6	31.6	109.0	109.0	7.6	7.6	2.4	4	89	89	89	822056	811474	<0.2	0.6	<0.2	0.6						
						7.3	0.2	126	23.8	8.0	8.0	31.8	31.8	102.8	102.8	7.2	7.2	3.5	4	90	90	90	822056	811474	<0.2	0.6	<0.2	0.6						
						7.3	0.2	129	23.8	8.0	8.0	31.8	31.8	102.8	102.8	7.2	7.2	3.5	4	90	90	90	822056	811474	<0.2	0.8	<0.2	0.8						
					IM12	Cloudy	Moderate	21:20	8.6	Surface	1.0	0.5	109	24.2	24.2	8.2	8.2	31.6	31.6	111.6	111.6	7.8	7.8	2.0	3	87	88	88	821478	812055	<0.2	0.7	<0.2	0.6
											1.0	0.5	116	24.1	8.2	8.2	31.6	31.6	111.5	111.5	7.8	7.8	1.9	4	88	89	89	821478	812055	<0.2	0.6	<0.2	0.7	
											4.3	0.3	117	23.8	8.2	8.2	31.8	31.8	105.3	105.3	7.4	7.4	2.6	4	89	89	89	821478	812055	<0.2	0.6	<0.2	0.7	
Middle	4.3	0.3	128	23.8						8.2	8.2	31.8	31.8	105.2	105.2	7.4	7.4	2.6	6	89	89	89	821478	812055	<0.2	0.7	<0.2	0.8						
	7.6	0.4	123	23.7						8.1	8.1	31.9	31.9	103.6	103.6	7.3	7.3	5.9	5	91	91	91	821478	812055	<0.2	0.6	<0.2	0.7						
	7.6	0.4	128	23.7						8.1	8.1	31.9	31.9	103.6	103.6	7.3	7.3	5.9	6	90	90	90	821478	812055	<0.2	0.7	<0.2	0.7						
SR1A	Cloudy	Moderate	20:57	5.1						Surface	1.0	-	-	24.1	24.1	8.2	8.2	31.8	31.8	106.8	106.8	7.5	7.5	2.8	5	-	-	-	819983	812655	-	-	-	-
											1.0	-	-	24.1	24.1	8.2	8.2	31.8	31.8	106.7	106.7	7.5	7.5	2.8	5	-	-	-	819983	812655	-	-	-	-
											2.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	819983	812655	-	-
					Middle	2.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	819983	812655	-	-	-	-			
						4.1	-	-	24.0	24.0	8.2	8.2	31.9	31.9	103.4	103.4	7.3	7.3	4.9	6	-	-	-	-	-	819983	812655	-	-	-	-			
						4.1	-	-	24.0	24.0	8.2	8.2	31.9	31.9	103.5	103.5	7.3	7.3	4.9	5	-	-	-	-	-	819983	812655	-	-	-	-			
					SR2	Cloudy	Moderate	20:44	4.7	Surface	1.0	0.4	88	24.1	24.1	8.1	8.1	31.8	31.8	106.7	106.7	7.5	7.5	2.8	3	88	88	88	821474	814167	<0.2	0.6	<0.2	0.6
											1.0	0.4	96	24.1	24.1	8.1	8.1	31.8	31.8	106.6	106.6	7.5	7.5	2.8	4	88	88	88	821474	814167	<0.2	0.6	<0.2	0.6
											-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	821474	814167	<0.2	0.6
Middle	-	-	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	821474	814167	<0.2	0.6	<0.2	0.6			
	3.7	0.4	109	24.0						24.0	8.0	8.0	31.9	31.9	103.1	103.1	7.2	7.2	4.5	6	90	90	90	821474	814167	<0.2	0.8	<0.2	0.8					
	3.7	0.4	110	24.0						24.0	8.0	8.0	31.9	31.9	103.0	103.0	7.2	7.2	4.6	4	86	86	86	821474	814167	<0.2	0.8	<0.2	0.8					
SR3	Cloudy	Moderate	21:55	8.8						Surface	1.0	0.4	190	24.2	24.2	8.3	8.3	30.9	30.9	109.3	109.3	7.7	7.7	2.2	4	-	-	-	822158	807576	-	-	-	-
											1.0	0.5	204	24.2	24.2	8.3	8.3	30.9	30.9	109.2	109.2	7.7	7.7	2.2	3	-	-	-	822158	807576	-	-	-	-
											4.4	0.2	236	24.2	24.2	8.3	8.2	31.1	31.1	108.3	108.3	7.6	7.6	2.3	4	-	-	-	822158	807576	-	-	-	-
					Middle	4.4	0.2	248	24.2	24.2	8.2	8.2	31.1	31.1	108.3	108.3	7.6	7.6	2.3	4	-	-	-	822158	807576	-	-	-	-					
						7.8	0.1	322	24.2	24.2	8.2	8.2	31.3	31.3	107.4	107.4	7.5	7.5	3.1	6	-	-	-	822158	807576	-	-	-	-					
						7.8	0.1	344	24.2	24.2	8.2	8.2	31.3	31.3	107.4	107.4	7.5	7.5	3.2	6	-	-	-	822158	807576	-	-	-	-					
					SR4A	Cloudy	Calm	21:17	8.6	Surface	1.0	0.2	241	24.1	24.1	8.1	8.1	33.1	33.1	102.2	102.2	7.1	7.1	6.5	13	-	-	-	817182	807802	-	-	-	-
											1.0	0.2	244	24.1	24.1	8.1	8.1	33.1	33.1	102.2	102.2	7.1	7.1	6.7	14	-	-	-	817182	807802	-	-	-	-
											4.3	0.1	66	24.1	24.1	8.1	8.1	33.1	33.1	101.9	101.9	7.1	7.1	8.7	11	-	-	-	817182	807802	-	-	-	-
Middle	4.3	0.1	69	24.1						24.1	8.1	8.1	33.1	33.1	101.9	101.9	7.1	7.1	8.7	10	-	-	-	817182	807802	-	-	-	-					
	7.6	0.0	84	24.0						24.0	8.0	8.0	33.1	33.1	102.5	102.5	7.1	7.1	10.9	9	-	-	-	817182	807802	-	-	-	-					
	7.6	0.0	84	24.0						24.0	8.0	8.0	33.2	33.1	102.7	102.6	7.2	7.2	10.8	9	-	-	-	817182	807802	-	-	-	-					
SR5A	Cloudy	Calm	21:33	5.2						Surface	1.0	0.0	309	24.1	24.1	8.1	8.1	32.5	32.5	107.4	107.4	7.5	7.5	9.6	13	-	-	-	816570	810677	-	-	-	-
											1.0	0.0	336	24.1	24.1	8.1	8.1	32.5	32.5	107.4	107.4	7.5	7.5	9.7	13	-	-	-	81657					

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

Water Quality Monitoring Results on 21 November 19 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	Average	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA	Value	DA										
C1	Cloudy	Moderate	15:07	7.8	Surface	1.0	0.5	355	24.2	24.2	8.1	8.1	33.4	33.4	103.9	103.9	7.2	7.2	8.0	6	89	90	89	90	90	815606	804247	<0.2	0.5	<0.2	0.6													
						1.0	0.5	14	24.2	8.1	8.1	33.4	33.4	103.9	103.9	7.2	7.2	8.0	5	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89						
						3.9	0.5	352	23.8	23.8	8.1	8.1	33.4	33.4	101.8	101.6	7.1	7.1	4.3	6	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89					
					Middle	3.9	0.5	9	23.8	23.8	8.1	8.1	33.5	33.4	101.4	101.4	7.1	7.1	4.4	4	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90				
						6.8	0.3	342	23.8	23.8	8.1	8.0	33.6	33.6	100.2	100.1	7.0	7.0	4.9	4	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89			
						6.8	0.3	359	23.8	23.8	8.0	8.0	33.6	33.6	100.0	100.0	7.0	7.0	5.1	6	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90				
					C2	Fine	Moderate	13:43	10.5	Surface	1.0	0.2	96	24.3	24.3	8.2	8.2	30.6	30.6	110.2	110.2	7.8	7.8	1.7	3	85	85	85	85	85	825671	806959	<0.2	1.1	<0.2	1.1								
											1.0	0.2	104	24.3	24.2	8.2	8.2	30.6	30.9	110.2	110.2	7.8	7.8	1.7	5	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86
											5.3	0.2	92	24.2	24.2	8.2	8.2	30.9	30.9	105.3	105.3	7.4	7.4	1.8	4	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87
Middle	5.3	0.2	92	24.2						24.2	8.2	8.2	30.9	30.9	105.2	105.2	7.4	7.4	1.8	4	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87			
	9.5	0.2	92	24.1						24.1	8.2	8.2	31.3	31.3	101.9	101.9	7.2	7.2	4.5	4	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89			
	9.5	0.2	97	24.1						24.1	8.2	8.2	31.3	31.3	101.9	101.9	7.2	7.2	4.5	5	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89			
Bottom	9.5	0.2	97	24.1						24.1	8.2	8.2	31.3	31.3	101.9	101.9	7.2	7.2	4.5	5	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89				
	1.0	0.2	213	24.3						24.3	8.3	8.3	32.0	32.0	108.3	108.3	7.6	7.6	1.4	6	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87				
	5.3	0.2	216	24.3						24.3	8.3	8.3	32.0	32.0	108.3	108.3	7.6	7.6	1.3	5	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88				
C3	Fine	Moderate	15:41	10.6	Surface	1.0	0.2	247	24.4	24.4	8.1	8.1	32.4	32.4	99.6	99.6	6.9	6.9	2.6	3	89	89	89	89	89	822113	817804	<0.2	0.8	<0.2	0.8													
						5.3	0.2	257	24.4	24.4	8.1	8.1	32.4	32.4	99.5	99.5	6.9	6.9	2.6	4	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89							
						9.6	0.2	285	24.4	24.4	8.1	8.1	32.5	32.5	97.5	97.6	6.8	6.8	7.3	3	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90						
					Middle	9.6	0.2	285	24.4	24.4	8.1	8.1	32.5	32.5	97.5	97.6	6.8	6.8	7.3	3	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90				
						5.3	0.2	257	24.4	24.4	8.1	8.1	32.4	32.4	99.5	99.6	6.9	6.9	2.6	4	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89			
						1.0	0.2	213	24.3	24.3	8.3	8.3	32.0	32.0	108.3	108.3	7.6	7.6	1.4	6	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87				
					Bottom	9.6	0.2	285	24.4	24.4	8.1	8.1	32.5	32.5	97.5	97.6	6.8	6.8	7.3	3	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90				
						9.6	0.2	292	24.4	24.4	8.1	8.1	32.5	32.5	97.6	97.6	6.8	6.8	7.0	4	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90				
						1.0	0.3	11	23.9	23.9	8.0	8.0	33.9	33.9	100.3	100.5	7.0	7.0	7.5	5	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89					
IM1	Cloudy	Calm	15:39	5.4	Surface	1.0	0.3	11	23.9	23.9	8.0	8.0	33.9	33.9	100.3	100.5	7.0	7.0	7.5	5	89	89	89	89	89	817943	807140	<0.2	0.5	<0.2	0.5													
						1.0	0.3	11	23.9	23.9	8.0	8.0	33.9	33.9	100.6	100.6	7.0	7.0	7.2	5	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89							
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
						4.4	0.2	325	24.2	24.2	8.1	8.1	33.3	33.3	104.8	104.8	7.3	7.3	4.2	6	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89					
						4.4	0.2	333	24.2	24.2	8.1	8.1	33.3	33.3	104.7	104.7	7.3	7.3	4.2	6	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89				
					Bottom	4.4	0.2	325	24.2	24.2	8.1	8.1	33.3	33.3	104.8	104.8	7.3	7.3	4.2	6	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89					
						4.4	0.2	333	24.2	24.2	8.1	8.1	33.3	33.3	104.7	104.7	7.3	7.3	4.2	6	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89				
						1.0	0.2	0	24.0	24.0	8.1	8.1	33.2	33.3	109.3	109.2	7.6	7.6	4.6	6	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88					
IM2	Cloudy	Moderate	15:44	6.8	Surface	1.0	0.2	0	24.0	24.0	8.1	8.1	33.2	33.3	109.3	109.2	7.6	7.6	4.6	6	88	88	88	88	88	818148	806166	<0.2	0.7	<0.2	0.7													
						1.0	0.2	0	24.0	24.0	8.1	8.1	33.3	33.3	109.0	109.0	7.6	7.6	5.1	4	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89								
						3.4	0.3	1	23.9	23.9	8.1	8.1	33.6	33.6	103.2	103.1	7.2	7.2	6.6	5	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89							
					Middle	3.4	0.3	1	23.9	23.9	8.1	8.1	33.6	33.6	103.0	103.1	7.2	7.2	6.5	6	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89					
						5.8	0.2	350	24.0	24.0	8.0	8.0	33.8	33.8	102.5	102.8	7.1	7.1	7.3	5	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90					
						5.8	0.2	322	24.0	24.0	8.0	8.0	33.8	33.8	103.0	102.8	7.1	7.1	7.4	6	90																							

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

Water Quality Monitoring

Water Quality Monitoring Results on 21 November 19 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	Fine	Moderate	14:14	6.9	Surface	1.0	0.4	278	24.1	24.1	8.2	8.2	31.5	31.5	116.6	116.6	8.2	8.1	2.9	2.8	3	4	87	88	88	822106	808826	<0.2	<0.2	1.1	1.1												
						1.0	0.5	297	24.1	8.2	8.2	31.5	31.5	116.5	116.5	8.2	8.1	2.9	2.8	4	4	86	87																				
						3.5	0.4	286	24.1	8.2	8.2	31.6	31.6	112.5	112.5	7.9	7.8	2.6	2.4	4	4	87	88																				
					Middle	3.5	0.5	302	24.1	8.2	8.2	31.6	31.6	112.5	112.5	7.9	7.9	2.6	2.4	4	4	87	87	87								87											
						5.9	0.3	281	24.0	8.1	8.1	31.6	31.6	110.8	110.8	7.8	7.8	2.9	2.8	5	4	90	89																				
						5.9	0.3	290	24.0	8.1	8.1	31.6	31.6	110.8	110.8	7.8	7.8	3.0	2.8	4	4	89	89																				
					IM10	Fine	Moderate	14:23	7.6	Surface	1.0	0.4	286	24.1	24.1	8.2	8.2	31.7	31.7	114.8	114.8	8.0	8.0	1.9								2.4	3	4	87	88	89	822395	809794	<0.2	<0.2	1.0	1.0
											1.0	0.4	307	24.1	8.2	8.2	31.7	31.7	114.8	114.8	8.0	8.0	1.9	2.4								2	4	91	88								
											3.8	0.4	290	24.1	8.2	8.2	31.7	31.7	114.0	114.0	8.0	8.0	2.2	2.4								4	4	88	88								
Middle	3.8	0.4	296	24.1						8.2	8.2	31.7	31.7	114.0	114.0	8.0	8.0	2.1	2.4	4	4	88	88																				
	6.6	0.4	296	24.0						8.1	8.1	31.7	31.7	111.2	111.2	7.8	7.8	3.1	2.4	5	4	90	89																				
	6.6	0.4	311	24.0						8.1	8.1	31.7	31.7	111.2	111.2	7.8	7.8	3.1	2.4	6	4	90	89																				
IM11	Fine	Moderate	14:36	7.8						Surface	1.0	0.4	296	24.5	24.5	8.0	8.0	31.6	31.6	118.1	118.1	8.2	8.2	1.5	2.4	2	3	87	86	88	822052	811452	<0.2	<0.2	1.0	1.0							
											1.0	0.4	324	24.5	8.0	8.0	31.6	31.6	118.1	118.1	8.2	8.1	1.5	2.4	3	3	86	88															
											3.9	0.4	293	24.3	8.0	8.0	31.7	31.7	115.9	115.9	8.1	8.1	1.7	2.4	4	3	88	88															
					Middle	3.9	0.4	304	24.3	8.0	8.0	31.7	31.7	115.9	115.9	8.1	8.1	1.7	2.4	3	3	88	88																				
						6.8	0.4	296	24.0	8.0	8.0	31.8	31.8	108.5	108.5	7.6	7.6	3.9	2.4	4	4	89	89																				
						6.8	0.4	305	24.0	8.0	8.0	31.8	31.8	108.5	108.5	7.6	7.6	4.0	2.4	4	4	89	89																				
					IM12	Fine	Moderate	14:44	9.0	Surface	1.0	0.2	277	24.3	24.3	8.1	8.1	31.6	31.6	112.8	112.8	7.9	7.8	3.4	3.2	4	5	87	87								88	821438	812051	<0.2	<0.2	1.0	1.0
											1.0	0.2	292	24.3	8.1	8.1	31.6	31.6	112.8	112.8	7.9	7.9	3.4	3.2	5	5	87	88															
											4.5	0.2	275	24.1	8.2	8.2	31.7	31.7	108.0	108.0	7.6	7.6	2.8	3.2	4	5	88	88															
Middle	4.5	0.2	298	24.1						8.2	8.2	31.7	31.7	108.0	108.0	7.6	7.6	2.8	3.2	5	5	88	88																				
	8.0	0.2	292	24.0						8.2	8.2	31.8	31.8	107.1	107.1	7.5	7.5	3.4	3.2	6	5	90	89																				
	8.0	0.2	304	24.0						8.2	8.2	31.8	31.8	107.1	107.1	7.5	7.5	3.4	3.2	7	5	90	89																				
SR1A	Fine	Moderate	15:03	5.1						Surface	1.0	-	-	24.3	24.3	8.1	8.1	31.4	31.4	106.2	106.2	7.4	7.4	4.9	4.9	4	4	-	-	-	819972	812657	-	-	-	-							
											1.0	-	-	24.3	24.3	8.1	8.1	31.4	31.4	106.2	106.2	7.4	7.4	5.0	4.9	3	4	-	-														
											2.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-														
					Middle	2.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								-	-	-	-			
						4.1	-	-	24.3	24.3	8.1	8.1	31.4	31.4	106.2	106.2	7.4	7.4	4.8	4.9	5	4	-	-	-	-																	
						4.1	-	-	24.3	24.3	8.1	8.1	31.4	31.4	106.2	106.2	7.4	7.4	4.8	4.9	4	4	-	-	-	-																	
					SR2	Fine	Moderate	15:16	4.4	Surface	1.0	0.2	258	24.3	24.3	8.2	8.2	31.8	31.8	109.0	109.0	7.6	7.6	4.1	4.1	6	6	88	89								89	821477	814189	<0.2	<0.2	1.0	1.0
											1.0	0.2	264	24.3	8.2	8.2	31.8	31.8	109.0	109.0	7.6	7.6	4.1	4.1	6	6	89	89															
											-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-														
Middle	-	-	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-										
	3.4	0.1	282	24.3						8.2	8.2	31.8	31.8	108.7	108.7	7.6	7.6	4.2	4.1	6	6	89	89																				
	3.4	0.2	282	24.3						8.2	8.2	31.8	31.8	108.7	108.7	7.6	7.6	4.2	4.1	7	6	89	89																				
SR3	Fine	Moderate	14:00	8.3						Surface	1.0	0.4	269	24.2	24.2	8.2	8.2	30.8	30.8	111.3	111.3	7.8	7.8	1.9	2.1	2	4	-	-	-	822159	807571	-	-	-	-							
											1.0	0.4	295	24.2	8.2	8.2	30.8	30.8	111.3	111.3	7.8	7.8	1.9	2.1	3	4	-	-															
											4.2	0.5	265	24.2	8.2	8.2	31.0	31.0	109.8	109.8	7.7	7.7	2.1	2.1	4	4	-	-															
					Middle	4.2	0.5	280	24.2	8.2	8.2	31.0	31.0	109.7	109.7	7.7	7.7	2.0	2.1	4	4	-	-																				
						7.3	0.4	277	24.2	8.0	8.0	31.2	31.2	108.9	108.9	7.6	7.6	2.5	2.5	6	4	-	-																				
						7.3	0.4	297	24.2	8.0	8.0	31.2	31.2	108.9	108.9	7.6	7.6	2.5	2.5	4	4	-	-																				
					SR4A	Cloudy	Calm	14:25	8.9	Surface	1.0	0.1	321	24.3	24.3	8.1	8.1	32.9	32.9	105.4	105.3	7.3	7.3	5.7	6.7	4	4	-	-								-	817167	807826	-	-	-	-
											1.0	0.1	323	24.3	8.1	8.1	32.9	32.9	105.2	105.3	7.3	7.3	5.7	6.7	4	4	-	-															
											4.5	0.2	34	24.2	8.1	8.1	32.9	32.9	103.7	103.6	7.2	7.2	6.0	6.7	4	5	-	-															
Middle	4.5	0.2	36	24.2						8.1	8.1	32.9	32.9	103.5	103.6	7.2	7.2	6.1	6.7	5	5	-	-																				
	7.9	0.3	33	24.2						8.1	8.1	33.2	33.2	102.2	102.4	7.1	7.1	8.5	6.7	6	4	-	-																				
	7.9	0.3	33	24.2						8.1	8.1	33.2	33.2	102.5	102.4	7.1	7.1	8.5	6.7	7	4	-	-																				
SR5A	Cloudy	Calm	14:11	5.7						Surface	1.0	0.2	330	24.3	24.3	8.1	8.1	32.4	32.4	107.9	107.9	7.5	7.5	6.7	6.9	6	6	-	-	-	816579	810696	-	-	-	-							
											1.0	0.2	341	24.3	8.1	8.1	32.4	32.4	107.8	107.9	7.5	7.5	6.9	6.9	6	6	-	-															
											-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-														
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								-	-	-				
						4.7	0.3	9	24.3	8.1	8.1	32.5	32.5	106.8	106.8	7.4	7.4	9.3	6.9	7	7	-	-																				
						4.7	0.3	9	24.3	8.1	8.1	32.5	32.5	106.8	106.8	7.4	7.4	9.4	6.9	7	7	-	-																				
					SR6A	Cloudy	Calm	13:47	4.7	Surface	1.0	0.2	197	24.5	24.5	8.1	8.1	32.5	32.5	116.2	116.0	8.1	8.1	5.0	6.8	7	7	-	-								-	817985	814730	-	-	-	-
											1.0	0.2	211	24.4	8.1	8.1	32.5	32.5	115.8	116.0	8.0	8.1	5.6	6.8	7	7	-	-															
											-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-														
Middle	-	-	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-												
	3.7	0.1	251	24.4						8.1	8.1	32.6	32.6	108.1	108.2	7.5	7.5	8.3	6.8	4	6	-	-																				
	3.7	0.1	258	24.4						8.1	8.1	32.6	32.6	108.2	108.2	7.5																											



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

Water Quality Monitoring Results on 23 November 19 during Mid-Ebb 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	DA
IM9	Cloudy	Moderate	10:32	7.5	Surface	1.0	0.3	103	24.0	24.0	8.1	8.1	32.6	32.7	104.6	104.5	7.3	7.3	2.1	2.1	3	3	84	84	88	822079	808833	<0.2	1.0	<0.2	0.9		
						1.0	0.3	103	24.0	24.0	8.1	8.1	32.7	32.7	104.4	104.4	7.3	7.3	2.1	2.1	4	4	84	84	88	822079	808833	<0.2	0.9	<0.2	0.7		
						3.8	0.4	88	23.8	23.8	8.1	8.1	32.9	32.9	102.6	102.6	7.2	7.2	3.7	3.7	4	4	87	87	88	822079	808833	<0.2	0.9	<0.2	0.7		
					Middle	3.8	0.4	92	23.7	23.7	8.1	8.1	32.9	32.9	102.4	102.5	7.2	7.2	3.7	3.7	4	4	87	87	88	822079	808833	<0.2	0.9	<0.2	0.7		
						6.5	0.3	71	23.7	23.7	8.1	8.1	33.1	33.1	101.7	101.7	7.1	7.1	6.0	6.0	3	3	91	91	88	822079	808833	<0.2	0.8	<0.2	1.0		
						6.5	0.3	72	23.7	23.7	8.1	8.1	33.1	33.1	101.6	101.6	7.1	7.1	6.3	6.3	4	4	92	92	88	822079	808833	<0.2	0.9	<0.2	1.0		
					Bottom	1.0	0.7	97	23.9	23.9	8.1	8.1	32.7	32.7	103.4	103.3	7.2	7.2	2.5	2.5	4	4	84	84	88	822079	808833	<0.2	0.7	<0.2	0.6		
						1.0	0.7	100	23.9	23.9	8.1	8.1	32.7	32.7	103.2	103.2	7.2	7.2	2.5	2.5	3	3	85	85	88	822079	808833	<0.2	0.6	<0.2	0.6		
						3.8	0.6	93	23.8	23.8	8.1	8.1	32.8	32.8	102.0	102.0	7.1	7.1	3.6	3.6	4	4	87	87	88	822079	808833	<0.2	1.0	<0.2	0.8		
IM10	Cloudy	Moderate	10:24	7.6	Surface	1.0	0.7	97	23.9	23.9	8.1	8.1	32.7	32.7	103.4	103.3	7.2	7.2	2.5	2.5	4	4	84	84	88	822397	809813	<0.2	0.7	<0.2	0.6		
						1.0	0.7	100	23.9	23.9	8.1	8.1	32.7	32.7	103.2	103.2	7.2	7.2	2.5	2.5	3	3	85	85	88	822397	809813	<0.2	0.6	<0.2	0.6		
						3.8	0.6	93	23.8	23.8	8.1	8.1	32.8	32.8	102.0	102.0	7.1	7.1	3.6	3.6	4	4	87	87	88	822397	809813	<0.2	1.0	<0.2	0.8		
					Middle	3.8	0.6	99	23.8	23.8	8.1	8.1	32.8	32.8	101.9	101.9	7.1	7.1	3.7	3.7	4	4	87	87	88	822397	809813	<0.2	0.8	<0.2	0.8		
						6.6	0.2	64	23.8	23.8	8.1	8.1	32.9	32.9	101.6	101.6	7.1	7.1	5.1	5.1	4	4	91	91	88	822397	809813	<0.2	0.9	<0.2	0.9		
						6.6	0.3	66	23.8	23.8	8.1	8.1	32.9	32.9	101.6	101.6	7.1	7.1	5.1	5.1	4	4	92	92	88	822397	809813	<0.2	0.9	<0.2	0.9		
					Bottom	1.0	0.4	107	23.8	23.8	8.1	8.1	32.7	32.7	103.4	103.4	7.2	7.2	2.9	2.9	7	7	84	84	88	822397	809813	<0.2	0.8	<0.2	0.8		
						1.0	0.5	108	23.8	23.8	8.1	8.1	32.7	32.7	103.3	103.3	7.2	7.2	2.9	2.9	6	6	84	84	88	822397	809813	<0.2	0.8	<0.2	0.8		
						3.4	0.5	135	23.8	23.8	8.1	8.1	32.8	32.8	102.8	102.8	7.2	7.2	3.3	3.3	5	5	87	87	88	822397	809813	<0.2	0.6	<0.2	0.7		
IM11	Cloudy	Moderate	10:12	6.7	Surface	3.4	0.5	145	23.8	23.8	8.1	8.1	32.8	32.8	102.8	102.8	7.2	7.2	3.3	3.3	4	4	88	88	88	822063	811470	<0.2	0.7	<0.2	0.8		
						5.7	0.5	120	23.8	23.8	8.1	8.1	32.8	32.8	102.7	102.8	7.2	7.2	3.5	3.5	4	4	91	91	88	822063	811470	<0.2	0.9	<0.2	0.9		
						5.7	0.5	123	23.8	23.8	8.1	8.1	32.8	32.8	102.8	102.8	7.2	7.2	3.6	3.6	4	4	92	92	88	822063	811470	<0.2	1.0	<0.2	1.0		
					Middle	5.7	0.5	120	23.8	23.8	8.1	8.1	32.8	32.8	102.7	102.8	7.2	7.2	3.5	3.5	4	4	91	91	88	822063	811470	<0.2	0.9	<0.2	0.9		
						5.7	0.5	123	23.8	23.8	8.1	8.1	32.8	32.8	102.8	102.8	7.2	7.2	3.6	3.6	4	4	92	92	88	822063	811470	<0.2	1.0	<0.2	1.0		
						1.0	0.6	107	23.8	23.8	8.1	8.1	32.8	32.8	103.8	103.8	7.3	7.3	3.3	3.3	4	4	85	85	88	822063	811470	<0.2	0.6	<0.2	0.7		
					Bottom	1.0	0.6	107	23.8	23.8	8.1	8.1	32.8	32.8	103.8	103.8	7.3	7.3	3.3	3.3	4	4	85	85	88	822063	811470	<0.2	0.6	<0.2	0.7		
						3.4	0.5	104	23.8	23.8	8.1	8.1	32.8	32.8	103.0	103.0	7.2	7.2	4.8	4.8	4	4	89	89	88	822063	811470	<0.2	0.8	<0.2	0.8		
						3.4	0.5	110	23.8	23.8	8.1	8.1	32.8	32.8	102.9	102.9	7.2	7.2	4.8	4.8	4	4	89	89	88	822063	811470	<0.2	0.8	<0.2	0.8		
IM12	Cloudy	Moderate	10:07	6.8	Surface	5.8	0.4	107	23.8	23.8	8.1	8.1	32.8	32.8	102.2	102.2	7.2	7.2	7.3	7.3	4	4	91	91	88	821446	812057	<0.2	0.9	<0.2	0.9		
						5.8	0.4	109	23.8	23.8	8.1	8.1	32.8	32.8	102.2	102.2	7.2	7.2	7.3	7.3	4	4	91	91	88	821446	812057	<0.2	0.9	<0.2	0.9		
						1.0	0.6	107	23.8	23.8	8.1	8.1	32.8	32.8	103.8	103.8	7.3	7.3	3.3	3.3	4	4	85	85	88	821446	812057	<0.2	0.6	<0.2	0.7		
					Middle	1.0	0.6	107	23.8	23.8	8.1	8.1	32.8	32.8	103.8	103.8	7.3	7.3	3.3	3.3	4	4	85	85	88	821446	812057	<0.2	0.6	<0.2	0.7		
						3.4	0.5	104	23.8	23.8	8.1	8.1	32.8	32.8	103.0	103.0	7.2	7.2	4.8	4.8	4	4	89	89	88	821446	812057	<0.2	0.8	<0.2	0.8		
						3.4	0.5	110	23.8	23.8	8.1	8.1	32.8	32.8	102.9	102.9	7.2	7.2	4.8	4.8	4	4	89	89	88	821446	812057	<0.2	0.8	<0.2	0.8		
					Bottom	5.8	0.4	107	23.8	23.8	8.1	8.1	32.8	32.8	102.2	102.2	7.2	7.2	7.3	7.3	4	4	91	91	88	821446	812057	<0.2	0.9	<0.2	0.9		
						5.8	0.4	109	23.8	23.8	8.1	8.1	32.8	32.8	102.2	102.2	7.2	7.2	7.3	7.3	4	4	91	91	88	821446	812057	<0.2	0.9	<0.2	0.9		
						1.0	-	-	24.1	24.1	8.0	8.0	33.0	33.0	97.1	97.1	6.8	6.8	3.1	3.1	6	6	-	-	-	-	88	821982	812664	-	-	-	-
SR1A	Cloudy	Moderate	09:49	5.3	Surface	1.0	-	-	24.1	24.1	8.0	8.0	33.0	33.0	97.1	97.1	6.8	6.8	3.1	3.1	6	6	-	-	88	821982	812664	-	-	-	-		
						1.0	-	-	24.1	24.1	8.0	8.0	33.0	33.0	97.1	97.1	6.8	6.8	3.1	3.1	5	5	-	-	-	-	88	821982	812664	-	-	-	-
						2.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					Middle	2.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
						4.3	-	-	24.1	24.1	8.0	8.0	33.0	33.0	97.8	97.9	6.8	6.8	3.3	3.3	4	4	-	-	-	-	88	821982	812664	-	-	-	-
						4.3	-	-	24.1	24.1	8.0	8.0	33.0	33.0	98.0	98.0	6.8	6.8	3.3	3.3	5	5	-	-	-	-	88	821982	812664	-	-	-	-
					Bottom	1.0	0.4	114	24.1	24.1	8.1	8.1	33.1	33.1	97.8	97.8	6.8	6.8	2.2	2.2	4	4	83	83	88	821982	812664	<0.2	0.9	<0.2	0.8		
						1.0	0.4	114	24.1	24.1	8.1	8.1	33.1	33.1	97.8	97.8	6.8	6.8	2.2	2.2	5	5	84	84	88	821982	812664	<0.2	0.8	<0.2	0.8		
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SR2	Cloudy	Moderate	09:37	4.9	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
						3.9	0.3	115	24.0	24.0	8.0	8.0	33.1	33.1	97.9	98.0	6.8	6.8	3.4	3.4	4	4	88	88	88	821486	814166	<0.2	0.9	<0.2	0.8		
					Middle	3.9	0.3	115	24.0	24.0	8.0	8.0	33.1	33.1	97.9	98.0	6.8	6.8	3.4	3.4	4	4	88	88	88	821486	814166	<0.2	0.9	<0.2	0.8		
						3.9	0.4	115	24.0	24.0	8.0	8.0	33.1	33.1	98.1	98.0	6.8	6.8	3.3	3.3	4	4	88	88	88	821486	814166	<0.2	0.9	<0.2	0.8		
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					Bottom	1.0	0.3	154	24.0	24.0	8.1	8.1	32.0	32.0</																			

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

Water Quality Monitoring Results on 23 November 19 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
C1	Cloudy	Moderate	16:08	8.6	Surface	1.0	0.1	325	24.1	24.1	8.1	8.1	32.3	32.3	107.7	107.7	7.5	7.5	7.3	7.3	6	6	86	86			<0.2	0.8								
						1.0	0.1	343	24.1	24.1	8.1	8.1	32.3	32.3	107.7	107.7	7.5	7.5	7.3	7.3	6	6	87	87			<0.2	0.8								
						4.3	0.1	339	24.1	24.1	8.1	8.1	31.4	31.5	107.0	107.0	7.5	7.5	3.8	3.8	6	6	89	89			<0.2	0.6								
					4.3	0.1	359	24.1	24.1	8.1	8.1	31.5	31.5	106.9	106.9	7.5	7.5	3.8	3.8	6	6	89	89			<0.2	0.6									
					7.6	0.2	351	24.0	24.0	8.1	8.1	32.3	32.3	106.2	106.2	7.4	7.4	7.3	7.3	6	6	92	92			<0.2	0.6									
					7.6	0.2	11	23.9	23.9	8.1	8.1	32.2	32.2	106.4	106.4	7.8	7.8	8.1	8.1	6	6	90	90			<0.2	0.7									
C2	Cloudy	Moderate	14:58	8.3	Surface	1.0	0.2	211	24.1	24.1	8.1	8.1	32.1	32.1	105.8	105.8	7.4	7.4	1.7	1.7	2	2	83	83			<0.2	1.4								
						1.0	0.2	226	24.1	24.1	8.1	8.1	32.1	32.1	105.7	105.7	7.4	7.4	1.7	1.7	2	2	84	84			<0.2	1.4								
						4.2	0.3	309	24.2	24.2	8.0	8.0	32.9	32.9	97.2	97.2	6.8	6.8	6.1	6.1	4	4	88	88			<0.2	1.7								
					4.2	0.3	329	24.2	24.2	8.0	8.0	32.9	32.9	97.2	97.2	6.8	6.8	6.1	6.1	3	3	90	90			<0.2	1.8									
					7.3	0.3	335	24.2	24.2	8.1	8.1	33.0	33.0	97.4	97.4	6.8	6.8	9.8	9.8	6	6	91	91			<0.2	2.0									
					7.3	0.3	354	24.2	24.2	8.1	8.1	33.0	33.0	97.4	97.4	6.8	6.8	9.8	9.8	4	4	92	92			<0.2	1.8									
C3	Cloudy	Moderate	17:06	11.5	Surface	1.0	0.5	253	24.2	24.2	8.0	8.0	33.2	33.2	96.8	96.8	6.7	6.7	3.6	3.6	5	5	84	84			<0.2	0.8								
						1.0	0.5	267	24.2	24.2	8.0	8.0	33.2	33.2	96.8	96.8	6.7	6.7	3.6	3.6	5	5	88	88			<0.2	0.9								
						5.8	0.4	270	24.2	24.2	8.0	8.0	33.2	33.2	96.4	96.4	6.7	6.7	3.7	3.7	6	6	88	88			<0.2	0.8								
					5.8	0.4	284	24.2	24.2	8.0	8.0	33.2	33.2	96.4	96.4	6.7	6.7	3.3	3.3	6	6	88	88			<0.2	0.8									
					10.5	0.3	269	24.2	24.2	8.0	8.0	33.3	33.3	97.6	97.6	6.8	6.8	3.3	3.3	6	6	92	92			<0.2	0.9									
					10.5	0.3	271	24.2	24.2	8.0	8.0	33.3	33.3	98.0	98.0	6.8	6.8	3.3	3.3	7	7	92	92			<0.2	0.8									
IM1	Cloudy	Moderate	15:47	5.8	Surface	1.0	0.4	354	24.1	24.1	8.1	8.1	32.4	32.4	106.7	106.6	7.4	7.4	6.3	6.3	8	8	86	86			<0.2	1.0								
						1.0	0.4	326	24.1	24.1	8.1	8.1	32.4	32.4	106.4	106.4	7.4	7.4	6.7	6.7	8	8	85	85			<0.2	1.0								
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
					4.8	0.2	359	23.9	23.9	8.1	8.1	32.4	32.4	104.3	104.4	7.3	7.3	11.5	11.5	8	8	90	90			<0.2	1.0									
					4.8	0.2	330	23.9	23.9	8.1	8.1	32.4	32.4	104.4	104.4	7.3	7.3	11.5	11.5	8	8	90	90			<0.2	1.0									
					4.8	0.2	330	23.9	23.9	8.1	8.1	32.4	32.4	104.4	104.4	7.3	7.3	11.5	11.5	8	8	90	90			<0.2	1.0									
IM2	Cloudy	Moderate	15:40	6.8	Surface	1.0	0.3	325	23.8	23.8	8.1	8.1	32.4	32.4	104.5	104.5	7.3	7.3	6.3	6.3	7	7	86	86			<0.2	1.0								
						1.0	0.3	325	23.8	23.8	8.1	8.1	32.4	32.4	104.4	104.4	7.3	7.3	6.5	6.5	7	7	87	87			<0.2	0.9								
						3.4	0.4	331	23.8	23.8	8.1	8.1	32.4	32.4	104.1	104.1	7.3	7.3	7.8	7.8	7	7	88	88			<0.2	1.1								
					3.4	0.4	333	23.8	23.8	8.1	8.1	32.4	32.4	104.1	104.1	7.3	7.3	8.0	8.0	7	7	87	87			<0.2	1.1									
					5.8	0.3	326	23.8	23.8	8.1	8.1	32.4	32.4	104.0	104.0	7.3	7.3	9.3	9.3	9	9	90	90			<0.2	1.0									
					5.8	0.3	333	23.8	23.8	8.1	8.1	32.4	32.4	103.9	104.0	7.3	7.3	9.5	9.5	9	9	91	91			<0.2	0.9									
IM3	Cloudy	Moderate	15:32	7.1	Surface	1.0	0.5	331	23.8	23.8	8.1	8.1	32.2	32.2	106.8	106.8	7.5	7.5	5.3	5.3	12	12	86	86			<0.2	1.1								
						1.0	0.6	356	23.8	23.8	8.1	8.1	32.2	32.2	106.8	106.8	7.5	7.5	5.4	5.4	10	10	86	86			<0.2	1.2								
						3.6	0.5	340	23.8	23.8	8.1	8.1	32.3	32.3	106.2	106.2	7.5	7.5	13.4	13.4	10	10	88	88			<0.2	1.1								
					3.6	0.6	313	23.8	23.8	8.1	8.1	32.3	32.3	106.1	106.1	7.5	7.5	13.1	13.1	11	11	89	89			<0.2	1.1									
					6.1	0.4	356	23.8	23.8	8.1	8.1	32.3	32.3	105.8	105.8	7.4	7.4	9.4	9.4	9	9	90	90			<0.2	1.1									
					6.1	0.4	328	23.8	23.8	8.1	8.1	32.3	32.3	105.7	105.8	7.4	7.4	9.4	9.4	10	10	90	90			<0.2	1.0									
IM4	Cloudy	Moderate	15:21	7.4	Surface	1.0	0.4	341	23.8	23.8	8.1	8.1	32.0	32.0	108.1	108.1	7.6	7.6	8.9	8.9	9	9	86	86			<0.2	1.3								
						1.0	0.5	352	23.8	23.8	8.1	8.1	32.0	32.0	108.0	108.0	7.6	7.6	9.0	9.0	8	8	85	85			<0.2	1.3								
						3.7	0.6	364	23.8	23.8	8.1	8.1	32.0	32.0	107.5	107.5	7.6	7.6	9.2	9.2	10	10	89	89			<0.2	1.0								
					3.7	0.7	335	23.8	23.8	8.1	8.1	32.0	32.0	107.4	107.4	7.6	7.6	9.3	9.3	11	11	88	88			<0.2	1.0									
					6.4	0.4	11	23.8	23.8	8.1	8.1	32.0	32.0	106.3	106.2	7.5	7.5	11.3	11.3	10	10	90	90			<0.2	1.1									
					6.4	0.4	11	23.8	23.8	8.1	8.1	32.0	32.0	106.1	106.2	7.5	7.5	11.5	11.5	10	10	92	92			<0.2	1.1									
IM5	Cloudy	Moderate	15:12	7.6	Surface	1.0	0.3	358	23.7	23.7	8.1	8.1	31.9	31.9	108.1	108.1	7.6	7.6	5.6	5.6	5	5	86	86			<0.2	1.4								
						1.0	0.3	329	23.7	23.7	8.1	8.1	31.9	31.9	108.1	108.1	7.6	7.6	5.7	5.7	5	5	86	86			<0.2	1.3								
						3.8	0.3	344	23.7	23.7	8.1	8.1	31.9	31.9	107.7	107.7	7.6	7.6	7.8	7.8	6	6	88	88			<0.2	1.2								
					3.8	0.3	346	23.7	23.7	8.1	8.1	31.9	31.9	107.7	107.7	7.6	7.6	7.8	7.8	6	6	88	88			<0.2	1.3									
					6.6	0.3	306	23.7	23.7	8.1	8.1	31.9	31.9	107.4	107.4	7.6	7.6	7.6	7.6	7	7	90	90			<0.2	1.9									
					6.6	0.4	308	23.7	23.7	8.1	8.1	31.9	31.9	107.4	107.4	7.6	7.6	7.4	7.4	6	6	91	91			<0.2	1.6									
IM6	Cloudy	Moderate	15:05	6.6	Surface	1.0	0.2	308	23.8	23.8	8.1	8.1	31.9	31.9	106.4	106.4	7.5	7.5	4.0	4.0	2	2	86	86			<0.2	1.4								
						1.0	0.2	331	23.8	23.8	8.1	8.1	31.9	31.9	106.3	106.3	7.5	7.5	4.3	4.3	3	3	86	86			<0.2	1.4								
						3.3																														

Expansion of Hong Kong International Airport into a Three-Runway System  
 Water Quality Monitoring  
 Water Quality Monitoring Results on 23 November 19 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	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA				
IM9	Cloudy	Moderate	15:46	8.0	Surface	1.0	0.3	241	23.9	23.9	8.1	8.1	32.4	32.4	105.3	105.3	7.4	7.4	2.0	2.0	<2	<2	83	83	88	88	822108	808788	<0.2	1.5	<0.2	1.3	
						8.1	8.1	32.4	32.4	105.3	105.3	7.4	7.4	2.1	2.1	2	2	83	83	88	88	<0.2	<0.2	1.4	1.4	89	89	<0.2	1.5	<0.2	1.4		
						4.0	0.3	268	23.8	23.8	8.1	8.1	32.7	32.7	103.8	103.7	7.3	7.3	2.7	2.7	5	5	88	88	89	89	<0.2	1.4	<0.2	1.4			
					Middle	4.0	0.3	278	23.8	23.8	8.1	8.1	32.7	32.7	103.6	103.6	7.3	7.3	2.7	2.7	6	6	89	89	90	90	<0.2	1.4	<0.2	1.4			
						7.0	0.3	277	23.8	23.8	8.1	8.1	32.9	32.9	102.7	102.7	7.2	7.2	3.9	3.9	6	6	92	92	93	93	<0.2	1.4	<0.2	1.4			
						7.0	0.3	286	23.8	23.8	8.1	8.1	32.9	32.9	102.7	102.7	7.2	7.2	3.9	3.9	7	7	93	93	93	93	<0.2	1.4	<0.2	1.4			
IM10	Cloudy	Moderate	15:52	7.9	Surface	1.0	0.1	271	24.2	24.2	8.1	8.1	32.3	32.3	106.1	106.1	7.4	7.4	1.9	1.9	2	2	86	86	89	89	822377	809791	<0.2	1.1	<0.2	1.1	
						8.1	8.1	32.3	32.3	106.0	106.0	7.4	7.4	1.9	1.9	2	2	86	86	89	89	<0.2	<0.2	1.6	1.6	90	90	<0.2	1.2	<0.2	2.3		
						4.0	0.2	307	23.9	23.9	8.1	8.1	32.6	32.6	103.6	103.6	7.3	7.3	2.8	2.8	3	3	89	89	90	90	<0.2	1.2	<0.2	2.1			
					Middle	4.0	0.2	318	23.9	23.9	8.1	8.1	32.6	32.6	103.5	103.5	7.2	7.2	2.8	2.8	<2	<2	91	91	92	92	<0.2	2.1	<0.2	2.1			
						6.9	0.2	331	23.8	23.8	8.1	8.1	32.8	32.8	102.2	102.2	7.2	7.2	3.4	3.4	<2	<2	91	91	92	92	<0.2	2.3	<0.2	2.1			
						6.9	0.2	305	23.7	23.7	8.1	8.1	32.9	32.9	102.2	102.2	7.2	7.2	3.4	3.4	<2	<2	92	92	92	92	<0.2	2.1	<0.2	2.1			
IM11	Cloudy	Moderate	16:00	7.8	Surface	1.0	0.5	216	24.0	24.0	8.1	8.1	32.4	32.4	105.1	105.1	7.4	7.4	2.6	2.6	7	7	89	89	90	90	822052	811437	<0.2	1.8	<0.2	1.8	
						8.1	8.1	32.4	32.4	105.1	105.1	7.4	7.4	2.6	2.6	8	8	89	89	90	90	<0.2	<0.2	1.8	1.8	91	91	<0.2	1.7	<0.2	1.8		
						3.9	0.3	254	24.0	24.0	8.1	8.1	32.4	32.4	104.7	104.7	7.3	7.3	3.7	3.7	5	5	90	90	91	91	<0.2	1.8	<0.2	1.8			
					Middle	3.9	0.3	262	24.0	24.0	8.1	8.1	32.4	32.4	104.6	104.6	7.3	7.3	3.7	3.7	6	6	90	90	91	91	<0.2	1.7	<0.2	1.8			
						6.8	0.5	294	23.9	23.9	8.1	8.1	32.5	32.5	104.1	104.1	7.3	7.3	3.7	3.7	3	3	91	91	92	92	<0.2	1.7	<0.2	1.8			
						6.8	0.5	312	23.9	23.9	8.1	8.1	32.5	32.5	104.0	104.0	7.3	7.3	3.7	3.7	4	4	92	92	92	92	<0.2	1.8	<0.2	1.8			
IM12	Cloudy	Moderate	16:09	7.4	Surface	1.0	0.5	211	24.0	24.0	8.1	8.1	32.5	32.5	105.3	105.3	7.4	7.4	2.7	2.7	4	4	87	87	89	89	821444	812066	<0.2	1.1	<0.2	1.2	
						8.1	8.1	32.5	32.5	105.2	105.2	7.4	7.4	2.7	2.7	3	3	87	87	89	89	<0.2	<0.2	1.5	1.5	89	89	<0.2	1.4	<0.2	1.4		
						3.7	0.5	258	24.0	24.0	8.1	8.1	32.7	32.7	103.9	103.9	7.3	7.3	4.0	4.0	4	4	89	89	91	91	<0.2	1.4	<0.2	1.4			
					Middle	3.7	0.6	272	24.0	24.0	8.1	8.1	32.7	32.7	103.8	103.8	7.3	7.3	4.1	4.1	3	3	89	89	91	91	<0.2	1.4	<0.2	1.4			
						6.4	0.4	334	23.9	23.9	8.1	8.1	32.7	32.7	103.5	103.5	7.2	7.2	5.3	5.3	3	3	91	91	92	92	<0.2	1.4	<0.2	1.4			
						6.4	0.4	355	23.9	23.9	8.1	8.1	32.7	32.7	103.5	103.5	7.2	7.2	5.3	5.3	4	4	92	92	92	92	<0.2	1.4	<0.2	1.4			
SR1A	Cloudy	Moderate	16:31	4.3	Surface	1.0	-	-	24.1	24.1	8.1	8.1	32.7	32.7	105.5	105.5	7.4	7.4	3.5	3.5	3	3	-	-	-	-	819971	812663	-	-	-	-	
						8.1	8.1	32.7	32.7	105.5	105.5	7.4	7.4	3.5	3.5	4	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
						2.2	-	-	-	-	-	-	-	-	-	-	-	-	7.4	7.4	-	-	-	-	-	-	-	-	-	-	-	-	-
					Middle	2.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
						3.3	-	-	24.0	24.0	8.1	8.1	32.8	32.8	104.8	104.9	7.3	7.3	5.2	5.2	4	4	-	-	-	-	-	-	-	-	-	-	-
						3.3	-	-	24.0	24.0	8.1	8.1	32.8	32.8	104.9	104.9	7.3	7.3	5.3	5.3	4	4	-	-	-	-	-	-	-	-	-	-	-
SR2	Cloudy	Moderate	16:43	5.1	Surface	1.0	0.6	321	24.0	24.0	8.1	8.1	32.7	32.7	105.4	105.4	7.4	7.4	2.8	2.8	3	3	83	84	88	88	821468	814187	<0.2	1.5	<0.2	1.5	
						8.1	8.1	32.7	32.7	105.4	105.4	7.4	7.4	2.8	2.8	3	3	83	84	88	88	<0.2	<0.2	1.5	1.5	89	89	<0.2	1.5	<0.2	1.5		
						-	-	-	-	-	-	-	-	-	-	-	-	-	7.4	7.4	-	-	-	-	-	-	-	-	-	-	-	-	-
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
						4.1	0.4	332	23.9	23.9	8.1	8.1	32.8	32.8	104.5	104.5	7.3	7.3	7.7	7.7	4	4	92	92	92	92	<0.2	1.4	<0.2	1.4			
						4.1	0.5	345	23.9	23.9	8.1	8.1	32.8	32.8	104.5	104.5	7.3	7.3	7.7	7.7	3	3	92	92	92	92	<0.2	1.5	<0.2	1.5			
SR3	Cloudy	Moderate	15:25	8.2	Surface	1.0	0.2	194	24.1	24.1	8.1	8.1	32.5	32.5	104.7	104.7	7.3	7.3	3.9	3.9	2	2	-	-	-	-	822139	807575	-	-	-	-	
						8.1	8.1	32.5	32.5	104.6	104.7	7.3	7.3	3.9	3.9	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
						4.1	0.1	213	23.7	23.7	8.1	8.1	32.9	32.9	102.1	102.2	7.2	7.2	3.2	3.2	2	2	-	-	-	-	-	-	-	-	-	-	
					Middle	4.1	0.1	230	23.7	23.7	8.1	8.1	32.8	32.8	102.3	102.2	7.2	7.2	3.3	3.3	<2	<2	-	-	-	-	-	-	-	-	-	-	-
						7.2	0.2	298	23.9	23.9	8.1	8.1	32.7	32.7	103.4	103.4	7.2	7.2	5.5	5.5	<2	<2	-	-	-	-	-	-	-	-	-	-	-
						7.2	0.2	303	23.9	23.9	8.1	8.1	32.7	32.7	103.4	103.4	7.2	7.2	5.5	5.5	2	2	-	-	-	-	-	-	-	-	-	-	-
SR4A	Cloudy	Moderate	16:27	8.6	Surface	1.0	0.4	259	24.1	24.1	8.1	8.1	32.3	32.3	105.5	105.4	7.4	7.4	5.5	5.5	9	9	-	-	-	-	817198	807790	-	-	-	-	
						8.1	8.1	32.3	32.3	105.3	105.4	7.4	7.4	5.5	5.5	8	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
						4.3	0.5	262	23.9	23.9	8.1	8.1	32.4	32.4	103.8	103.8	7.3	7.3	6.1	6.1	9	9	-	-	-	-	-	-	-	-	-	-	
					Middle	4.3	0.5	266	23.9	23.9	8.1	8.1	32.4	32.4	103.8	103.8	7.3	7.3	5.9	5.9	8	8	-	-	-	-	-	-	-	-	-	-	-
						7.6	0.3	260	23.9	23.9	8.1	8.1	32.4	32.4	103.9	104.0	7.3	7.3	5.9	5.9	11	11	-	-	-	-	-	-	-	-	-	-	-
						7.6	0.4	263	23.9	23.9	8.1	8.1	32.4	32.4	104.0	104.0	7.3	7.3	6.0	6.0	12	12	-	-	-	-	-	-	-	-	-	-	-
SR5A	Cloudy	Moderate	16:43	4.4	Surface	1.0	0.1	242	24.2	24.2	8.1	8.1	32.2	32.2	106.6	106.6	7.5	7.5	4.8	4.8	6	6	-	-	-	-	816603	810716	-	-	-	-	
						8.1	8.1	32.2	32.2	106.6	106.6	7.4	7.4	4.9	4.9	6	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
						-	-	-	-	-	-	-	-	-	-	-	-	-	7.5	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
						3.4	0.2	266	24.2	24.2	8.1	8.1	32.2	32.2	106.5	106.4	7.4	7.4	5.1	5.1	6	6	-	-	-	-	-	-	-	-	-	-	-
						3.4	0.3	271	24.2	24.2	8.1	8.1	32.2	32.2	106.3	106.4	7.4	7.4	5.7	5.7	5	5	-	-	-	-							



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

Water Quality Monitoring

Water Quality Monitoring Results on

26 November 19 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	12:08	7.8	Surface	1.0	0.1	23	24.0	24.0	8.2	8.2	33.4	33.5	101.4	101.3	7.0	7.1	12.1	12.0	9	10	84	87	815617	804235	<0.2	1.6				
						1.0	0.1	23	24.0	8.2	8.2	33.5	33.8	101.2	102.0	7.0	7.1	12.0	12.0	8	8	84	87	815617	804235	<0.2	1.8					
						3.9	0.1	310	24.1	24.1	8.2	8.2	33.8	33.8	101.9	102.0	7.1	7.1	18.4	16.3	9	9	87	87	815617	804235	<0.2	2.1				
					Middle	3.9	0.1	325	24.1	24.1	8.2	8.2	33.7	33.7	102.1	102.0	7.1	7.1	18.4	16.3	9	9	87	87	815617	804235	<0.2	2.1				
						6.8	0.1	254	24.1	24.1	8.2	8.2	33.7	33.7	102.6	102.9	7.1	7.2	19.1	19.0	12	12	90	90	815617	804235	<0.2	2.0				
						6.8	0.1	276	24.1	24.1	8.2	8.0	33.7	33.7	103.3	103.3	7.2	7.2	19.0	19.0	12	12	90	90	815617	804235	<0.2	2.2				
C2	Cloudy	Rough	14:09	8.2	Surface	1.0	0.7	68	24.1	24.1	8.0	8.0	31.5	31.5	98.7	98.7	7.2	6.9	3.7	3.7	7	8	83	87	825705	806943	<0.2	1.1				
						1.0	0.7	68	24.1	24.1	8.0	8.0	31.5	31.5	98.7	98.7	6.9	6.9	3.7	3.7	6	6	83	87	825705	806943	<0.2	0.9				
						4.1	0.4	56	24.1	24.1	8.0	8.0	32.4	32.5	99.2	99.3	6.9	6.9	7.8	7.9	8	8	88	88	825705	806943	<0.2	1.3				
					Middle	4.1	0.5	58	24.1	24.1	8.0	8.0	32.5	32.5	99.3	99.3	6.9	6.9	7.9	7.9	8	8	88	88	825705	806943	<0.2	1.2				
						7.2	0.3	25	24.0	24.1	8.0	8.0	33.0	32.9	98.8	98.8	6.9	6.9	8.7	8.7	9	9	91	91	825705	806943	<0.2	1.5				
						7.2	0.3	25	24.1	24.1	8.0	8.0	32.8	32.9	98.7	98.8	6.9	6.9	8.7	8.7	10	10	91	91	825705	806943	<0.2	1.5				
C3	Cloudy	Rough	11:48	12.3	Surface	1.0	0.3	141	24.1	24.1	8.0	8.0	32.7	32.7	98.7	98.8	6.9	7.0	2.6	2.6	8	9	82	83	822119	817819	<0.2	1.0				
						1.0	0.3	143	24.1	24.1	8.0	8.0	32.7	32.7	98.8	98.8	6.9	7.0	2.6	2.6	9	9	83	83	822119	817819	<0.2	0.9				
						6.2	0.3	125	24.1	24.1	8.0	8.0	32.7	32.7	100.0	100.0	7.0	7.0	3.2	3.2	8	8	87	87	822119	817819	<0.2	1.4				
					Middle	6.2	0.3	133	24.1	24.1	8.0	8.0	32.7	32.7	100.0	100.0	7.0	7.0	3.2	3.2	8	8	87	87	822119	817819	<0.2	1.2				
						11.3	0.4	106	24.1	24.1	8.0	8.0	32.7	32.7	101.4	101.6	7.1	7.1	4.7	4.7	8	8	90	90	822119	817819	<0.2	1.2				
						11.3	0.4	109	24.1	24.1	8.0	8.0	32.7	32.7	101.7	101.7	7.1	7.1	4.7	4.7	10	10	90	90	822119	817819	<0.2	1.3				
IM1	Cloudy	Calm	12:22	5.3	Surface	1.0	0.1	154	24.0	24.0	8.2	8.2	33.2	33.2	101.8	101.3	7.1	7.1	8.4	8.4	10	10	85	85	817948	807129	<0.2	1.7				
						1.0	0.1	164	24.0	24.0	8.2	8.2	33.2	33.2	100.8	100.8	7.0	7.1	8.3	8.3	11	11	85	85	817948	807129	<0.2	1.6				
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					Middle	4.3	0.0	70	24.0	24.0	8.2	8.2	33.2	33.2	104.4	104.9	7.3	7.3	7.9	7.9	10	10	89	89	817948	807129	<0.2	1.2				
						4.3	0.0	70	24.0	24.0	8.2	8.2	33.2	33.2	105.4	105.4	7.3	7.3	7.6	7.6	9	9	90	90	817948	807129	<0.2	1.2				
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IM2	Cloudy	Moderate	12:32	6.8	Surface	1.0	0.1	197	24.1	24.1	8.2	8.2	33.2	33.2	102.0	102.0	7.1	7.1	10.1	10.6	8	8	83	83	818150	806167	<0.2	1.0				
						1.0	0.1	211	24.1	24.1	8.2	8.2	33.2	33.2	102.1	102.0	7.1	7.1	10.6	10.6	8	8	83	83	818150	806167	<0.2	0.9				
						3.4	0.1	154	24.1	24.1	8.2	8.2	33.2	33.2	102.0	101.4	7.1	7.1	11.3	11.3	8	8	86	86	818150	806167	<0.2	1.2				
					Middle	3.4	0.1	164	24.1	24.1	8.2	8.2	33.2	33.2	100.9	101.4	7.0	7.0	11.3	11.3	9	9	86	86	818150	806167	<0.2	1.0				
						5.8	0.1	101	24.1	24.1	8.2	8.2	33.2	33.2	102.7	103.2	7.1	7.1	11.3	11.3	10	10	89	89	818150	806167	<0.2	1.2				
						5.8	0.2	110	24.1	24.1	8.2	8.2	33.2	33.2	103.8	103.2	7.2	7.2	10.7	10.7	10	10	89	89	818150	806167	<0.2	1.6				
IM3	Cloudy	Moderate	12:43	7.0	Surface	1.0	0.2	182	24.1	24.1	8.1	8.1	33.2	33.2	101.0	101.0	7.0	7.0	12.7	13.1	7	8	83	83	818797	805594	<0.2	0.9				
						1.0	0.2	199	24.1	24.1	8.1	8.1	33.2	33.2	101.1	101.0	7.0	7.0	13.1	13.1	8	8	83	83	818797	805594	<0.2	0.8				
						3.5	0.2	215	24.1	24.1	8.1	8.1	33.4	33.4	100.1	100.1	6.9	6.9	15.2	15.0	8	8	86	86	818797	805594	<0.2	0.9				
					Middle	3.5	0.2	221	24.1	24.1	8.1	8.1	33.4	33.4	100.2	100.1	6.9	6.9	15.0	15.0	9	9	86	86	818797	805594	<0.2	0.7				
						6.0	0.1	193	24.1	24.1	8.1	8.1	33.5	33.5	100.0	100.0	6.9	6.9	17.1	17.1	10	10	89	89	818797	805594	<0.2	0.8				
						6.0	0.1	200	24.1	24.1	8.1	8.1	33.5	33.5	100.2	100.1	6.9	6.9	17.0	17.0	9	9	88	88	818797	805594	<0.2	0.8				
IM4	Cloudy	Moderate	12:53	7.2	Surface	1.0	0.3	199	24.1	24.1	8.2	8.2	33.4	33.4	100.7	100.6	7.0	7.0	13.7	14.1	9	10	83	83	819728	804626	<0.2	0.8				
						1.0	0.3	200	24.1	24.1	8.2	8.2	33.4	33.4	100.6	100.6	7.0	7.0	14.1	14.1	10	10	83	83	819728	804626	<0.2	0.8				
						3.6	0.2	211	24.1	24.1	8.1	8.1	33.6	33.6	100.5	100.6	7.0	7.0	17.1	17.1	10	10	85	85	819728	804626	<0.2	0.8				
					Middle	3.6	0.2	226	24.1	24.1	8.1	8.1	33.6	33.6	100.7	100.6	7.0	7.0	20.1	20.1	9	9	86	86	819728	804626	<0.2	0.8				
						6.2	0.3	224	24.1	24.1	8.1	8.1	33.8	33.8	101.0	100.9	7.0	7.0	18.1	18.1	10	10	88	88	819728	804626	<0.2	0.9				
						6.2	0.3	240	24.1	24.1	8.1	8.1	33.8	33.8	100.9	100.9	7.0	7.0	20.2	20.2	9	9	88	88	819728	804626	<0.2	0.9				
IM5	Cloudy	Moderate	13:03	6.8	Surface	1.0	0.3	69	24.1	24.1	8.1	8.1	33.2	33.2	98.8	98.8	6.9	6.9	15.6	15.6	10	10	83	83	820728	804864	<0.2	1.0				
						1.0	0.3	70	24.1	24.1	8.1	8.1	33.2	33.2	98.8	98.8	6.9	6.9	15.5	15.5	10	10	82	82	820728	804864	<0.2	0.9				
						3.4	0.3	65	24.1	24.1	8.1	8.1	33.2	33.2	99.6	99.6	6.9	6.9	18.5	18.5	11	11	86	86	820728	804864	<0.2	1.0				
					Middle	3.4	0.3	70	24.1	24.1	8.1	8.1	33.2	33.2	99.7	99.7	6.9	6.9	18.4	18.4	10	10	86	86	820728	804864	<0.2	2.0				
						5.8	0.3	71	24.1	24.1	8.1	8.1	33.2	33.2	100.9	100.9	7.0	7.0	20.2	20.2	10	10	89	89	820728	804864	<0.2	2.1				
						5.8	0.3	71	24.1	24.1	8.1	8.1	33.2	33.2	101.0	100.9	7.0	7.0	20.2	20.2	10	10	89	89	820728	804864	<0.2	1.0				
IM6	Cloudy	Moderate	13:13	6.9	Surface	1.0	0.1	29	24.1	24.1	8.2	8.2	33.0	33.0	102.6	102.5	7.1	7.1	8.8	8.8	12	12	83									



Expansion of Hong Kong International Airport into a Three-Runway System  
 Water Quality Monitoring  
 Water Quality Monitoring Results on 26 November 19 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	17:41	8.8	Surface	1.0	0.1	321	24.3	24.2	8.2	8.2	33.8	33.9	101.0	101.0	7.0	7.0	6.4	6.7	15	13	83	86	815613	804251	<0.2	<0.2	0.9	0.8				
						1.0	0.1	330	24.2	8.2	8.2	33.9	34.1	100.9	101.9	7.0	7.0	6.7	7.5	6.7	12	13	83	86	<0.2	<0.2	0.7	0.8						
						4.4	0.1	342	24.2	8.2	8.2	34.1	34.1	102.0	101.9	7.0	7.0	7.5	7.6	7.6	12	11	86	89	<0.2	<0.2	0.9	0.8						
					4.4	0.1	12	24.2	8.2	8.2	34.1	34.1	101.8	101.9	7.0	7.0	7.6	7.6	7.6	13	14	86	89	<0.2	<0.2	0.8	0.8							
					7.8	0.2	344	24.2	24.2	8.2	8.2	34.1	34.1	102.4	102.4	7.1	7.1	8.7	8.7	8.7	11	12	89	89	<0.2	<0.2	0.8	0.8						
					7.8	0.2	350	24.2	24.2	8.2	8.2	34.1	34.1	102.3	102.4	7.1	7.1	8.7	8.7	8.7	12	12	89	89	<0.2	<0.2	0.8	0.8						
C2	Fine	Rough	16:39	8.3	Surface	1.0	0.2	211	24.1	24.1	8.1	8.1	32.2	32.2	101.8	101.8	7.1	7.1	6.3	6.3	9	12	82	86	825671	806929	<0.2	<0.2	0.9	1.1				
						1.0	0.3	226	24.1	24.1	8.1	8.0	32.2	31.9	101.8	100.4	7.1	7.1	6.3	4.2	12	12	82	87	<0.2	<0.2	1.0	1.3						
						4.2	0.3	300	24.1	24.1	8.0	8.0	31.9	31.9	100.4	100.4	7.0	7.0	4.2	4.3	12	14	86	90	<0.2	<0.2	1.2	1.3						
					7.3	0.3	334	24.1	24.1	8.0	8.0	32.1	32.1	101.0	101.0	7.1	7.1	5.7	5.7	14	14	87	90	<0.2	<0.2	1.3	1.1							
					7.3	0.3	350	24.1	24.1	8.0	8.0	32.1	32.1	101.0	101.0	7.1	7.1	5.7	5.7	14	14	87	90	<0.2	<0.2	1.1	1.1							
					1.0	0.5	261	24.3	24.3	8.0	8.0	33.1	33.1	94.8	94.8	6.6	6.6	3.0	3.0	7	7	82	87	<0.2	<0.2	1.2	1.2							
C3	Fine	Rough	19:06	11.6	Surface	1.0	0.5	267	24.3	24.3	8.0	8.0	33.1	33.1	94.7	94.8	6.6	6.6	3.1	3.1	7	7	83	87	822103	817821	<0.2	<0.2	1.0	1.1				
						5.8	0.4	275	24.4	24.4	8.0	8.0	33.4	33.4	90.9	90.9	6.3	6.3	4.4	4.4	7	6	87	87	<0.2	<0.2	1.1	0.9						
						5.8	0.4	278	24.4	24.4	8.0	8.0	33.4	33.4	90.8	90.8	6.3	6.3	4.4	4.4	6	8	87	90	<0.2	<0.2	0.9	1.1						
					10.6	0.3	269	24.4	24.4	8.0	8.0	33.5	33.5	90.2	90.2	6.2	6.2	5.7	5.7	8	7	90	90	<0.2	<0.2	1.1	1.4							
					10.6	0.3	292	24.4	24.4	8.0	8.0	33.5	33.5	90.2	90.2	6.2	6.2	5.8	5.8	7	7	90	90	<0.2	<0.2	1.4	1.4							
					1.0	0.0	342	24.1	24.1	8.2	8.2	33.1	33.1	101.7	101.4	7.1	7.1	9.3	9.3	13	12	85	85	<0.2	<0.2	1.2	1.4							
IM1	Cloudy	Calm	17:21	5.1	Surface	1.0	0.0	315	24.1	24.1	8.2	8.2	33.1	33.1	101.1	101.1	7.0	7.0	9.3	9.3	12	14	85	85	817957	807135	<0.2	<0.2	1.4	1.7				
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					4.1	0.2	353	24.1	24.1	8.2	8.2	33.1	33.1	101.7	101.8	7.1	7.1	10.0	10.0	15	15	89	89	<0.2	<0.2	1.9	2.1							
					4.1	0.2	325	24.1	24.1	8.2	8.2	33.1	33.1	101.8	101.8	7.1	7.1	10.0	10.0	15	15	89	89	<0.2	<0.2	1.9	2.1							
					1.0	0.3	321	24.2	24.2	8.2	8.2	33.2	33.2	101.9	101.5	7.1	7.1	7.4	7.4	13	12	83	83	<0.2	<0.2	1.9	2.0							
IM2	Cloudy	Moderate	17:13	7.3	Surface	1.0	0.4	325	24.2	24.2	8.2	8.2	33.2	33.2	101.1	101.5	7.0	7.0	7.5	7.5	12	12	83	83	818161	806178	<0.2	<0.2	1.4	1.5				
						3.7	0.4	336	24.1	24.1	8.2	8.2	33.4	33.4	101.4	101.3	7.0	7.0	8.3	8.3	11	12	87	87	<0.2	<0.2	1.4	1.4						
						3.7	0.4	342	24.1	24.1	8.2	8.2	33.4	33.4	101.2	101.3	7.0	7.0	8.4	8.4	12	12	87	87	<0.2	<0.2	1.4	1.4						
					6.3	0.3	320	24.1	24.1	8.2	8.2	33.7	33.7	99.9	100.2	6.9	6.9	10.0	10.0	11	11	89	89	<0.2	<0.2	1.0	1.0							
					6.3	0.3	331	24.1	24.1	8.2	8.2	33.7	33.7	100.5	100.2	7.0	7.0	9.5	9.5	11	11	89	89	<0.2	<0.2	1.1	1.1							
					1.0	0.5	336	24.1	24.1	8.2	8.2	33.0	33.0	103.1	103.1	7.2	7.2	4.4	4.4	13	12	83	83	<0.2	<0.2	1.6	1.4							
IM3	Cloudy	Moderate	17:06	7.5	Surface	1.0	0.5	352	24.1	24.1	8.2	8.2	33.6	33.6	103.1	103.1	7.2	7.2	4.4	4.4	12	13	83	87	818764	805612	<0.2	<0.2	0.8	1.0				
						3.8	0.5	330	24.1	24.1	8.2	8.2	33.2	33.2	103.4	102.9	7.2	7.2	5.3	5.3	13	13	86	86	<0.2	<0.2	0.8	0.8						
						3.8	0.6	332	24.1	24.1	8.2	8.2	33.2	33.2	102.4	102.9	7.1	7.1	5.4	5.4	13	13	86	86	<0.2	<0.2	0.8	0.8						
					6.5	0.4	362	24.2	24.2	8.2	8.2	33.6	33.6	103.5	104.0	7.2	7.2	5.7	5.7	14	14	89	89	<0.2	<0.2	0.7	0.7							
					6.5	0.4	333	24.1	24.1	8.2	8.2	33.6	33.6	104.5	104.0	7.2	7.2	5.5	5.5	14	14	89	89	<0.2	<0.2	0.9	0.9							
					1.0	0.4	342	24.2	24.2	8.2	8.2	33.6	33.6	99.6	99.7	6.9	6.9	8.3	8.3	17	17	82	82	<0.2	<0.2	0.7	0.7							
IM4	Cloudy	Moderate	16:58	8.2	Surface	1.0	0.5	315	24.1	24.1	8.2	8.2	33.7	33.7	101.1	101.1	7.0	7.0	10.0	10.0	16	16	86	86	819716	804586	<0.2	<0.2	0.9	0.8				
						4.1	0.6	369	24.1	24.1	8.2	8.2	33.7	33.7	101.0	101.1	7.0	7.0	10.4	10.4	17	17	87	87	<0.2	<0.2	0.8	0.8						
						4.1	0.6	339	24.1	24.1	8.2	8.2	33.7	33.7	101.0	101.1	7.0	7.0	11.5	11.5	14	14	89	89	<0.2	<0.2	0.8	0.8						
					7.2	0.4	12	24.1	24.1	8.2	8.2	33.8	33.8	101.1	101.6	7.1	7.1	11.6	11.6	14	14	89	89	<0.2	<0.2	1.0	1.0							
					1.0	0.2	275	24.2	24.2	8.2	8.2	33.8	33.8	103.0	102.9	7.1	7.1	7.3	7.3	14	14	83	83	<0.2	<0.2	1.1	1.1							
					1.0	0.3	294	24.1	24.1	8.2	8.2	33.2	33.2	102.7	102.9	7.1	7.1	7.6	7.6	14	14	83	83	<0.2	<0.2	1.1	1.1							
IM5	Cloudy	Moderate	16:48	7.6	Surface	3.8	0.2	308	24.1	24.1	8.2	8.2	33.2	33.3	100.6	100.7	7.0	7.0	9.0	9.0	19	19	86	85	820712	804863	<0.2	<0.2	1.1	1.0				
						3.8	0.3	331	24.1	24.1	8.2	8.2	33.3	33.3	100.8	100.7	7.0	7.0	9.7	9.7	20	20	85	85	<0.2	<0.2	0.8	0.8						
						6.6	0.4	336	24.1	24.1	8.1	8.1	33.5	33.5	102.8	102.9	7.1	7.1	11.6	11.6	22	22	88	88	<0.2	<0.2	0.8	0.8						
					6.6	0.4	357	24.1	24.1	8.1	8.1	33.5	33.5	102.9	102.9	7.1	7.1	10.2	10.2	22	22	89	89	<0.2	<0.2	0.8	0.8							
					1.0	0.2	215	24.1	24.1	8.2	8.2	32.9	32.9	102.7	102.5	7.2	7.2	7.0	7.0	16	16	83	83	<0.2	<0.2	0.9	0.9							
					1.0	0.3	224	24.1	24.1	8.2	8.2	32.9	32.9	102.2	102.2	7.1	7.1	7.1	7.1	16	16	83	83	<0.2	<0.2	0.8	0.8							
IM6	Cloudy	Moderate	16:41	7.3	Surface	3.7	0.1	254	24.1	24.1	8.2	8.2	33.0	33.0	102.7	102.7	7.2	7.2	8.1	8.1	20	20	86	86	821043	805820	<0.2	<0.2	2.2	1.4				
						3.7	0.1	278	24.1																									

**Expansion of Hong Kong International Airport into a Three-Runway System**  
**Water Quality Monitoring**  
**Water Quality Monitoring Results on 26 November 19 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	Rough	17:32	8.1	Surface	1.0	0.3	249	24.2	24.2	8.0	8.0	32.0	32.0	101.3	101.3	7.1	7.1	4.8	4.8	11	11	83	83	822077	808810	<0.2	0.9	1.0						
						1.0	0.3	254	24.2	8.0	8.0	32.0	32.0	101.3	101.3	7.1	7.1	4.8	4.8	10	10	83	83	<0.2			1.0								
					Middle	4.1	0.3	265	24.1	24.1	8.0	8.0	32.5	32.5	100.8	100.8	7.0	7.1	5.1	5.3	10	10	87	87			<0.2	1.1							
						4.1	0.3	281	24.1	24.1	8.0	8.0	32.5	32.5	100.8	100.8	7.0	7.0	5.2	5.3	9	9	87	87			<0.2	1.0							
					Bottom	7.1	0.3	277	24.1	24.1	8.0	8.0	32.8	32.8	100.6	100.6	7.0	7.0	6.0	6.0	9	9	90	90			<0.2	1.1							
						7.1	0.3	288	24.1	24.1	8.0	8.0	32.8	32.8	100.6	100.6	7.0	7.0	6.0	6.0	9	9	91	91			<0.2	1.0							
IM10	Fine	Rough	17:40	7.5	Surface	1.0	0.1	354	24.2	24.2	8.0	8.0	32.0	32.0	102.6	102.6	7.2	7.2	3.9	3.9	10	10	82	82	822379	809786	<0.2	1.2	1.2						
						1.0	0.1	326	24.2	24.2	8.0	8.0	32.0	32.0	102.6	102.6	7.2	7.2	3.9	3.9	10	10	82	82			<0.2	1.2							
					Middle	3.8	0.2	353	24.2	24.2	8.0	8.0	32.1	32.2	101.3	101.2	7.1	7.1	3.9	4.7	13	13	87	87			<0.2	1.2							
						3.8	0.3	325	24.2	24.2	8.0	8.0	32.2	32.2	101.1	101.2	7.1	7.1	3.9	4.7	13	13	87	87			<0.2	1.1							
					Bottom	6.5	0.2	304	24.1	24.1	8.0	8.0	32.8	32.8	100.8	100.9	7.0	7.0	6.2	6.2	13	13	90	90			<0.2	1.2							
						6.5	0.2	308	24.1	24.1	8.0	8.0	32.8	32.8	101.0	100.9	7.0	7.0	6.2	6.2	12	12	91	91			<0.2	1.2							
IM11	Fine	Rough	17:53	7.7	Surface	1.0	0.5	301	24.2	24.2	8.0	8.0	32.3	32.3	98.9	98.9	6.9	6.9	5.4	5.4	13	13	82	82	822043	811463	<0.2	1.4	1.3						
						1.0	0.5	317	24.2	24.2	8.0	8.0	32.4	32.3	98.8	98.9	6.9	6.9	5.5	5.5	14	14	83	83			<0.2	1.3							
					Middle	3.9	0.3	327	24.2	24.2	8.0	8.0	32.5	32.5	98.2	98.3	6.9	6.9	6.2	7.6	14	14	86	86			<0.2	1.4							
						3.9	0.3	353	24.2	24.2	8.0	8.0	32.5	32.5	98.3	98.3	6.9	6.9	6.3	7.6	14	14	87	87			<0.2	1.2							
					Bottom	6.7	0.5	311	24.1	24.1	8.0	8.0	32.5	32.5	98.9	99.1	6.9	6.9	11.1	11.1	15	15	90	90			<0.2	1.1							
						6.7	0.5	324	24.1	24.1	8.0	8.0	32.5	32.5	99.2	99.2	6.9	6.9	11.1	11.1	14	14	90	90			<0.2	1.2							
IM12	Fine	Rough	17:58	7.2	Surface	1.0	0.5	299	24.2	24.2	8.0	8.0	32.1	32.1	101.3	101.3	7.1	7.1	3.1	3.1	9	9	82	82	821444	812067	<0.2	1.3	1.4						
						1.0	0.5	317	24.2	24.2	8.0	8.0	32.1	32.1	101.2	101.2	7.1	7.1	3.1	3.1	8	8	83	83			<0.2	1.3							
					Middle	3.6	0.5	285	24.2	24.2	8.0	8.0	32.1	32.1	99.8	99.6	6.9	6.9	3.6	4.3	11	11	86	86			<0.2	1.4							
						3.6	0.6	309	24.2	24.2	8.0	8.0	32.1	32.1	99.4	99.6	6.9	6.9	3.6	4.3	12	12	86	86			<0.2	1.4							
					Bottom	6.2	0.4	312	24.2	24.2	8.0	8.0	32.7	32.7	97.4	97.4	6.8	6.8	6.2	6.8	11	11	90	90			<0.2	1.4							
						6.2	0.4	329	24.2	24.2	8.0	8.0	32.7	32.7	97.4	97.4	6.8	6.8	6.2	6.8	12	12	90	90			<0.2	1.4							
SR1A	Fine	Rough	18:27	5.2	Surface	1.0	-	-	24.2	24.2	8.0	8.0	32.8	32.8	97.0	97.0	6.8	6.8	5.2	5.3	9	9	-	-	819981	812663	-	-	-						
						1.0	-	-	24.2	24.2	8.0	8.0	32.8	32.8	97.0	97.0	6.8	6.8	5.3	5.3	9	9	-	-											
					Middle	2.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-		-	-	-	-	-	-
						2.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-		-	-	-	-	-	-
					Bottom	4.2	-	-	24.2	24.2	8.0	8.0	32.8	32.8	97.4	97.5	6.8	6.8	6.8	6.8	8	8	-	-			-	-							
						4.2	-	-	24.2	24.2	8.0	8.0	32.8	32.8	97.6	97.5	6.8	6.8	6.8	6.8	10	10	-	-			-	-							
SR2	Fine	Rough	18:40	3.6	Surface	1.0	0.6	325	24.3	24.3	8.0	8.0	32.8	32.8	99.3	99.4	6.9	6.9	4.0	4.0	8	8	83	83	821451	814158	<0.2	1.4	1.3						
						1.0	0.6	350	24.3	24.3	8.0	8.0	32.8	32.8	99.3	99.4	6.9	6.9	4.0	4.0	9	9	83	83			<0.2	1.4							
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-		-	-	-	-	-	-
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-		-	-	-	-	-	-
					Bottom	2.6	0.4	318	24.3	24.3	8.0	8.0	32.8	32.8	98.1	98.1	6.8	6.8	3.8	3.8	10	10	87	87			<0.2	1.2							
						2.6	0.4	344	24.3	24.3	8.0	8.0	32.8	32.8	98.1	98.1	6.8	6.8	3.8	3.8	11	11	87	87			<0.2	1.2							
SR3	Fine	Rough	17:15	7.9	Surface	1.0	0.2	187	24.1	24.1	8.0	8.0	32.0	32.0	99.5	99.5	7.0	7.0	4.3	4.3	6	6	-	-	822144	807580	-	-	-						
						1.0	0.2	189	24.1	24.1	8.0	8.0	32.0	32.0	99.5	99.5	7.0	7.0	4.4	4.4	6	6	-	-											
					Middle	4.0	0.1	213	24.1	24.1	8.0	8.0	32.2	32.2	99.3	99.3	6.9	6.9	2.9	2.9	7	7	-	-											
						4.0	0.1	230	24.1	24.1	8.0	8.0	32.3	32.2	99.3	99.3	6.9	6.9	3.0	3.0	6	6	-	-											
					Bottom	6.9	0.2	298	24.1	24.1	8.0	8.0	32.5	32.5	99.6	99.6	7.0	7.0	5.2	5.2	6	6	-	-											
						6.9	0.2	317	24.1	24.1	8.0	8.0	32.5	32.5	99.6	99.6	7.0	7.0	5.3	5.3	6	6	-	-											
SR4A	Cloudy	Calm	18:04	9.4	Surface	1.0	0.4	255	24.2	24.2	8.2	8.2	33.1	33.1	103.8	103.7	7.2	7.2	7.3	7.3	10	10	-	-	817212	807823	-	-	-						
						1.0	0.4	259	24.2	24.2	8.2	8.2	33.1	33.1	103.5	103.7	7.2	7.2	7.4	7.4	9	9	-	-											
					Middle	4.7	0.5	259	24.1	24.1	8.2	8.2	33.1	33.1	101.6	101.6	7.1	7.1	9.4	9.1	10	10	-	-											
						4.7	0.5	261	24.1	24.1	8.2	8.2	33.1	33.1	101.6	101.6	7.1	7.1	9.4	9.1	11	11	-	-											
					Bottom	8.4	0.3	251	24.1	24.1	8.2	8.2	33.1	33.1	101.2	101.3	7.0	7.0	10.3	10.3	13	13	-	-											
						8.4	0.3	256	24.1	24.1	8.2	8.2	33.1	33.1	101.3	101.3	7.0	7.0	10.8	10.8	14	14	-	-											
SR5A	Cloudy	Calm	18:20	3.5	Surface	1.0	0.1	32	24.3	24.3	8.1	8.1	33.0	33.0	102.1	102.1	7.1	7.1	9.3	9.3	12	12	-	-	816576	810693	-	-	-						
						1.0	0.1	33	24.3	24.3	8.1	8.1	33.0	33.0	102.0	102.0	7.1	7.1	9.5	9.5	12	12	-	-											
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-		-	-	-	-	-	-
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-		-	-	-	-	-	-
					Bottom	2.5	0.2	74	24.2	24.2	8.1	8.1	33.0	33.0	103.5	103.7	7.2	7.2	8.9	8.5	15	15	-	-											
						2.5	0.3	76	24.2	24.2	8.1	8.1	33.1	33.0	103.8	103.7	7.2	7.2	8.5	8.5	15	15	-	-											
SR6A	Cloudy	Calm	18:52	3.3	Surface	1.0	0.0	201	24.2	24.2	8.1	8.1	32.6	32.6	97.5	97.6	6.8	6.8	6.7	6.7	14	14	-	-	817943	814720	-	-	-						

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

Water Quality Monitoring

Water Quality Monitoring Results on 28 November 19 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	13:31	7.8	Surface	1.0	0.1	135	24.4	24.4	7.5	7.5	34.6	34.6	91.1	91.1	6.3	6.3	1.7	6	90	91	815636	804246	<0.2	1.9	1.4	1.5					
						1.0	0.1	156	24.4	7.5	7.5	34.6	34.6	91.1	91.1	6.3	6.3	1.7	6	90	91	815636	804246	<0.2	1.4	1.4	1.5						
						3.9	0.1	132	24.3	7.4	7.4	34.6	34.6	89.7	89.7	6.2	6.2	2.7	6	91	91	815636	804246	<0.2	1.2	1.4	1.5						
					Middle	3.9	0.1	137	24.3	7.4	7.4	34.6	34.6	89.7	89.7	6.2	6.2	2.7	5	91	91	815636	804246	<0.2	1.4	1.4	1.5						
						6.8	0.0	114	24.3	7.3	7.3	34.6	34.6	89.6	89.6	6.2	6.2	3.6	6	92	92	815636	804246	<0.2	1.5	1.5	1.5						
						6.8	0.0	115	24.3	7.3	7.3	34.6	34.6	89.5	89.5	6.2	6.2	3.6	5	92	92	815636	804246	<0.2	1.4	1.4	1.5						
					C2	Fine	Rough	12:30	10.5	Surface	1.0	0.3	250	24.1	24.1	8.0	8.0	30.9	30.9	94.3	94.3	6.6	6.6	5.3	12	89	90	825690	806924	<0.2	1.6	1.7	1.6
											1.0	0.3	222	24.1	8.0	8.0	30.9	30.9	94.3	94.3	6.6	6.6	5.4	13	89	90	825690	806924	<0.2	1.7	1.6	1.6	
											5.3	0.4	184	24.1	8.0	8.0	30.9	30.9	94.1	94.1	6.6	6.6	6.5	10	90	90	825690	806924	<0.2	1.6	1.6	1.6	
Middle	5.3	0.4	199	24.1						8.0	8.0	30.9	30.9	94.1	94.1	6.6	6.6	6.6	10	90	90	825690	806924	<0.2	1.5	1.5	1.5						
	9.5	0.5	146	23.9						8.0	8.0	31.6	31.6	93.4	93.4	6.6	6.6	11.7	9	91	91	825690	806924	<0.2	1.5	1.5	1.5						
	9.5	0.6	149	23.9						8.0	8.0	31.6	31.6	93.5	93.5	6.6	6.6	11.4	9	91	91	825690	806924	<0.2	1.8	1.8	1.8						
C3	Fine	Rough	14:50	10.4						Surface	1.0	0.3	70	24.3	24.3	8.0	8.0	33.4	33.4	89.4	89.4	6.2	6.2	4.2	9	88	89	822101	817787	<0.2	0.9	1.0	0.9
											1.0	0.3	75	24.3	8.0	8.0	33.4	33.4	89.3	89.3	6.2	6.2	4.2	10	89	89	822101	817787	<0.2	1.0	1.0	0.9	
											5.2	0.1	87	24.2	8.0	8.0	33.4	33.4	88.3	88.3	6.1	6.1	6.9	8	89	89	822101	817787	<0.2	0.9	0.9	0.9	
					Middle	5.2	0.1	93	24.2	8.0	8.0	33.4	33.4	88.2	88.2	6.1	6.1	6.9	7	89	89	822101	817787	<0.2	0.9	0.9	0.9						
						9.4	0.2	100	24.2	8.0	8.0	33.4	33.4	88.3	88.3	6.1	6.1	8.9	8	90	90	822101	817787	<0.2	0.9	0.9	0.9						
						9.4	0.2	105	24.2	8.0	8.0	33.4	33.4	88.5	88.5	6.1	6.1	8.9	8	90	90	822101	817787	<0.2	1.0	1.0	1.0						
					IM1	Fine	Rough	13:12	4.4	Surface	1.0	0.0	123	24.2	24.2	8.1	8.1	34.2	34.2	94.4	94.4	6.5	6.5	4.6	8	89	90	817954	807154	<0.2	1.0	0.9	1.1
											1.0	0.0	131	24.2	8.1	8.1	34.2	34.2	94.4	94.4	6.5	6.5	4.6	9	89	89	817954	807154	<0.2	0.9	0.9	1.1	
											-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Middle	-	-	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3.4	0.0	245	24.2						8.0	8.0	34.2	34.2	94.2	94.2	6.5	6.5	7.0	7	90	90	817954	807154	<0.2	1.1	1.1	1.2						
	3.4	0.0	267	24.2						8.0	8.0	34.2	34.2	94.2	94.2	6.5	6.5	7.0	8	91	91	817954	807154	<0.2	1.2	1.2	1.2						
IM2	Fine	Rough	13:07	6.6						Surface	1.0	0.1	132	24.2	24.2	8.1	8.1	34.3	34.3	95.6	95.6	6.6	6.6	4.2	9	89	90	818156	806181	<0.2	1.3	1.2	1.2
											1.0	0.1	135	24.2	8.1	8.1	34.3	34.3	95.5	95.5	6.6	6.6	4.2	8	88	88	818156	806181	<0.2	1.2	1.2	1.2	
											3.3	0.1	119	24.2	8.1	8.1	34.3	34.3	95.2	95.2	6.6	6.6	6.8	8	90	90	818156	806181	<0.2	1.1	1.1	1.1	
					Middle	3.3	0.1	120	24.2	8.1	8.1	34.3	34.3	95.2	95.2	6.6	6.6	6.9	7	91	91	818156	806181	<0.2	1.1	1.1	1.1						
						5.6	0.1	129	24.2	8.1	8.1	34.3	34.3	95.2	95.2	6.6	6.6	8.5	8	91	91	818156	806181	<0.2	1.1	1.1	1.1						
						5.6	0.1	129	24.2	8.1	8.1	34.3	34.3	95.3	95.3	6.6	6.6	8.4	7	92	92	818156	806181	<0.2	1.2	1.2	1.2						
					IM3	Fine	Rough	13:01	6.8	Surface	1.0	0.3	131	24.2	24.2	8.1	8.1	34.2	34.2	96.3	96.2	6.7	6.7	4.2	8	90	90	818782	805583	<0.2	1.1	1.2	1.1
											1.0	0.3	133	24.2	8.1	8.1	34.2	34.2	96.1	96.1	6.6	6.6	4.2	7	89	89	818782	805583	<0.2	1.2	1.2	1.1	
											3.4	0.2	146	24.2	8.1	8.1	34.2	34.2	97.4	97.4	6.7	6.7	8.8	8	91	91	818782	805583	<0.2	1.1	1.1	1.1	
Middle	3.4	0.2	155	24.2						8.1	8.1	34.2	34.2	97.4	97.4	6.7	6.7	8.8	8	90	90	818782	805583	<0.2	0.9	0.9	0.9						
	5.8	0.2	129	24.2						8.1	8.1	34.2	34.2	97.0	97.0	6.7	6.7	14.6	6	91	91	818782	805583	<0.2	1.0	1.0	1.0						
	5.8	0.3	141	24.2						8.1	8.1	34.2	34.2	97.0	97.0	6.7	6.7	14.6	7	91	91	818782	805583	<0.2	1.0	1.0	1.0						
IM4	Fine	Rough	12:54	7.1						Surface	1.0	0.4	241	24.2	24.2	8.1	8.1	34.3	34.3	97.5	97.5	6.7	6.7	5.5	8	88	89	819727	804592	<0.2	2.3	2.4	2.4
											1.0	0.4	248	24.2	8.1	8.1	34.3	34.3	97.5	97.5	6.7	6.7	5.5	8	89	89	819727	804592	<0.2	2.4	2.4	2.4	
											3.6	0.5	234	24.2	8.1	8.1	34.3	34.3	97.2	97.2	6.7	6.7	9.2	8	90	90	819727	804592	<0.2	2.3	2.3	2.3	
					Middle	3.6	0.5	225	24.2	8.1	8.1	34.3	34.3	97.2	97.2	6.7	6.7	9.3	7	90	90	819727	804592	<0.2	2.5	2.5	2.5						
						6.1	0.4	235	24.2	8.1	8.1	34.3	34.3	97.0	97.0	6.7	6.7	12.9	8	91	91	819727	804592	<0.2	2.4	2.4	2.4						
						6.1	0.4	229	24.2	8.1	8.1	34.3	34.3	97.0	97.0	6.7	6.7	13.0	6	91	91	819727	804592	<0.2	2.2	2.2	2.2						
					IM5	Fine	Rough	12:46	6.5	Surface	1.0	0.4	211	24.3	24.3	8.1	8.1	34.2	34.2	97.1	97.1	6.7	6.7	4.1	7	89	90	820750	804869	<0.2	2.2	2.1	2.2
											1.0	0.4	201	24.3	8.1	8.1	34.2	34.2	97.1	97.1	6.7	6.7	4.1	7	89	89	820750	804869	<0.2	2.1	2.1	2.1	
											3.3	0.4	215	24.3	8.1	8.1	34.2	34.2	96.9	96.9	6.7	6.7	8.3	8	90	90	820750	804869	<0.2	2.0	2.0	2.0	
Middle	3.3	0.4	223	24.3						8.1	8.1	34.2	34.2	96.9	96.9	6.7	6.7	8.3	7	91	91	820750	804869	<0.2	2.7	2.7	2.7						
	5.5	0.3	229	24.3						8.1	8.1	34.2	34.2	96.8	96.8	6.7	6.7	10.4	9	91	91	820750	804869	<0.2	1.9	1.9	1.9						
	5.5	0.3	208	24.3						8.1	8.1	34.2	34.2	96.8	96.8	6.7	6.7	10.5	8	91	91	820750	804869	<0.2	2.0	2.0	2.0						
IM6	Fine	Rough	12:40	6.3						Surface	1.0	0.2	198	24.3	24.3	8.1	8.1	34.2	34.2	97.2	97.2	6.7	6.7	3.5	9	89	90	821048	805842	<0.2	1.6	1.5	1.6
											1.0	0.2	193	24.3	8.1	8.1	34.2	34.2	97.2	97.2	6.7	6.7	3.5	8	88	88	821048	805842	<0.2	1.5	1.5	1.5	
											3.2	0.2	197	24.2	8.1	8.1	34.3	34.3	98.3	98.2	6.8	6.8											

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

Water Quality Monitoring Results on 28 November 19 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	Fine		Rough	12:57	7.6	Surface	1.0	0.2	154	24.1	24.1	8.0	8.0	31.1	31.2	97.7	97.8	6.9			6.9	4.4	7.9	8	8	88
					Middle	3.8	0.2	176	23.9	23.9	8.0	8.0	31.8	31.9	98.6	98.7	6.9	6.9	5.7	7.9	8	8	89	89	822077	808807	<0.2	0.6	<0.2	0.7		
					Bottom	6.6	0.1	158	23.8	23.8	8.0	8.0	32.4	32.4	100.2	100.4	7.0	7.1	13.5	7.9	7	8	90	91	822077	808807	<0.2	0.8	<0.2	0.8		
					Surface	1.0	0.2	141	24.1	24.1	8.0	8.0	31.2	31.2	97.3	97.4	6.9	6.9	4.4	7.3	6	7	89	89	822374	809803	<0.2	0.7	<0.2	0.8		
					Middle	3.9	0.1	160	23.9	23.9	8.0	8.0	31.7	31.8	97.7	97.7	6.9	6.9	4.9	7.3	7	7	89	89	822374	809803	<0.2	0.8	<0.2	0.7		
					Bottom	6.8	0.2	129	23.9	23.9	8.0	8.0	32.6	32.6	97.1	97.1	6.8	6.8	12.4	7.3	7	7	90	91	822374	809803	<0.2	0.8	<0.2	0.8		
					Surface	1.0	0.1	128	24.0	24.0	8.0	8.0	31.2	31.2	97.4	97.4	6.9	6.9	4.3	7.5	7	8	89	90	822048	811442	<0.2	0.8	<0.2	0.8		
					Middle	3.8	0.1	129	23.9	23.9	8.0	8.0	31.6	31.7	97.6	97.6	6.9	6.9	5.4	7.5	8	8	90	91	822048	811442	<0.2	0.4	<0.2	0.4		
					Bottom	6.5	0.1	131	23.8	23.8	8.0	8.0	32.6	32.6	97.4	97.4	6.8	6.8	12.6	7.5	7	8	91	91	822048	811442	<0.2	0.6	<0.2	0.6		
					Surface	1.0	0.2	126	24.3	24.3	8.0	8.0	33.4	33.4	89.3	89.3	6.2	6.2	3.8	4.1	6	6	88	88	821444	812031	<0.2	0.6	<0.2	0.8		
					Middle	4.2	0.2	123	24.2	24.2	8.0	8.0	33.4	33.4	88.9	88.9	6.2	6.2	4.1	4.1	6	6	89	90	821444	812031	<0.2	0.8	<0.2	0.9		
					Bottom	7.3	0.2	148	24.2	24.2	8.0	8.0	33.4	33.4	89.0	89.1	6.2	6.2	4.4	4.1	6	6	90	91	821444	812031	<0.2	0.7	<0.2	0.8		
					Surface	1.0	-	-	24.3	24.3	8.0	8.0	33.4	33.4	89.4	89.4	6.2	6.2	4.1	5.0	8	9	-	-	819974	812658	-	-	-	-		
					Middle	2.2	-	-	-	-	-	-	-	-	-	-	-	-	-	5.0	9	-	-	819974	812658	-	-	-	-			
					Bottom	3.3	-	-	24.3	24.3	8.0	8.0	33.4	33.4	89.4	89.5	6.2	6.2	6.0	5.0	9	10	-	-	819974	812658	-	-	-	-		
					Surface	1.0	0.2	117	24.3	24.3	8.0	8.0	33.4	33.4	89.4	89.4	6.2	6.2	4.2	5.5	7	8	89	89	821446	814150	<0.2	0.6	<0.2	0.5		
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.5	7	90	90	821446	814150	<0.2	0.6	<0.2	0.6			
					Bottom	3.6	0.1	68	24.3	24.3	8.0	8.0	33.4	33.4	89.3	89.3	6.2	6.2	6.8	5.5	6	7	90	90	821446	814150	<0.2	0.5	<0.2	0.6		
					Surface	1.0	0.3	198	24.1	24.1	8.0	8.0	31.1	31.1	97.4	97.4	6.9	6.9	4.5	7.7	7	8	-	-	822129	807553	-	-	-	-		
					Middle	4.5	0.4	174	23.9	23.9	8.0	8.0	31.9	31.9	98.0	98.0	6.9	6.9	7.7	7.7	7	8	-	-	822129	807553	-	-	-	-		
					Bottom	8.0	0.5	168	23.8	23.8	8.0	8.0	32.5	32.5	98.0	98.2	6.9	6.9	10.4	7.7	8	8	-	-	822129	807553	-	-	-	-		
					Surface	1.0	0.4	76	24.2	24.2	8.1	8.1	34.3	34.3	96.0	96.0	6.6	6.6	3.9	4.9	7	7	-	-	817180	807825	-	-	-	-		
					Middle	4.1	0.3	79	24.2	24.2	8.1	8.1	34.3	34.3	97.3	97.3	6.7	6.7	5.3	4.9	7	7	-	-	817180	807825	-	-	-	-		
					Bottom	7.2	0.3	53	24.2	24.2	8.1	8.1	34.3	34.3	97.5	97.6	6.7	6.7	5.5	4.9	7	7	-	-	817180	807825	-	-	-	-		
					Surface	1.0	0.1	49	24.2	24.2	8.1	8.1	34.2	34.2	98.7	98.7	6.8	6.8	3.6	3.3	8	8	-	-	816596	810683	-	-	-	-		
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.3	8	-	-	816596	810683	-	-	-	-			
					Bottom	2.7	0.2	42	24.2	24.2	8.1	8.1	34.2	34.2	98.4	98.4	6.8	6.8	3.1	3.3	8	7	-	-	816596	810683	-	-	-	-		
					Surface	1.0	0.0	86	24.2	24.2	8.1	8.1	34.2	34.2	97.0	97.0	6.7	6.7	4.1	4.6	8	8	-	-	817964	814747	-	-	-	-		
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.6	8	-	-	817964	814747	-	-	-	-			
					Bottom	3.2	0.1	130	24.2	24.2	8.1	8.1	34.2	34.2	96.2	96.3	6.6	6.6	5.0	4.6	7	6	-	-	817964	814747	-	-	-	-		
					Surface	1.0	0.6	76	24.3	24.3	8.0	8.0	33.4	33.4	89.6	89.6	6.2	6.2	3.7	5.5	7	7	-	-	823636	823755	-	-	-	-		
					Middle	7.7	0.1	69	24.2	24.2	8.0	8.0	33.4	33.4	87.2	87.2	6.1	6.1	5.1	5.5	8	7	-	-	823636	823755	-	-	-	-		
					Bottom	14.3	0.1	302	24.2	24.2	8.0	8.0	33.4	33.4	87.3	87.4	6.1	6.1	7.7	5.5	7	7	-	-	823636	823755	-	-	-	-		
					Surface	1.0	-	-	24.3	24.3	8.0	8.0	33.4	33.4	89.5	89.5	6.2	6.2	4.8	6.3	7	6	-	-	820400	811610	-	-	-	-		
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.3	6	-	-	820400	811610	-	-	-	-			
					Bottom	3.4	-	-	24.3	24.3	8.0	8.0	33.4	33.4	89.5	89.5	6.2	6.2	7.9	6.3	6	6	-	-	820400	811610	-	-	-	-		
					Surface	1.0	-	-	24.3	24.3	8.0	8.0	33.4	33.4	89.5	89.5	6.2	6.2	7.9	6.3	6	6	-	-	820400	811610	-	-	-	-		
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.3	6	-	-	820400	811610	-	-	-	-			
					Bottom	3.4	-	-	24.3	24.3	8.0	8.0	33.4	33.4	89.5	89.5	6.2	6.2	7.9	6.3	6	6	-	-	820400	811610	-	-	-	-		

DA: Depth-Averaged

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

Value exceeding Action Level is underlined; Value exceeding Limit Level is bolded and underlined

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

Water Quality Monitoring Results on 28 November 19 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	Rough	09:00	7.3	Surface	1.0	0.5	36	23.7	23.7	8.0	8.0	33.2	33.2	97.9	98.0	6.9	6.9	7.2	10	13	89	90	815609	804264	<0.2	1.0	1.4	1.2					
						1.0	0.5	37	23.7	8.0	8.0	33.2	33.2	98.0	98.0	6.9	6.9	7.2	10	13	88	90	<0.2	1.3	1.4									
						3.7	0.4	30	23.8	23.8	8.0	8.0	33.6	33.6	98.1	98.0	6.8	6.8	8.7	14	15	90	91	<0.2	1.4	1.1								
					Middle	3.7	0.5	31	23.8	8.0	8.1	33.9	33.9	97.8	97.4	6.8	6.8	8.7	14	15	91	91	<0.2	1.6	1.1									
						6.3	0.3	29	23.9	23.9	8.1	8.1	33.9	33.9	97.3	97.4	6.8	6.8	11.4	15	15	91	91	<0.2	1.1	1.1								
						6.3	0.3	29	23.9	23.9	8.1	8.1	33.9	33.9	97.4	97.4	6.8	6.8	11.1	15	15	91	91	<0.2	1.1	1.1								
					C2	Fine	Moderate	10:31	10.2	Surface	1.0	0.3	318	24.1	24.1	8.0	8.0	30.9	30.9	94.9	94.9	6.7	6.7	5.3	10	10	90	90	825694	806947	<0.2	1.2	1.4	1.4
											1.0	0.3	324	24.1	24.0	8.0	8.0	30.9	30.9	94.8	94.8	6.7	6.7	5.3	10	10	90	90	<0.2	1.6	1.2			
											5.1	0.3	331	24.0	24.0	8.0	8.0	31.1	31.1	93.9	93.9	6.6	6.6	8.7	9	9	91	91	<0.2	1.6	1.2			
Middle	5.1	0.3	332	24.0						24.0	8.0	8.0	31.2	31.2	93.9	93.9	6.6	6.6	9.2	9	9	91	91	<0.2	1.6	1.2								
	9.2	0.2	334	23.9						23.9	8.0	8.0	31.6	31.5	94.1	94.2	6.6	6.6	11.2	9	9	91	91	<0.2	1.6	1.2								
	9.2	0.2	348	23.9						23.9	8.0	8.0	31.5	31.5	94.2	94.2	6.6	6.6	11.4	10	10	91	91	<0.2	1.3	1.3								
C3	Fine	Moderate	08:26	10.6						Surface	1.0	0.6	254	24.1	24.1	8.0	8.0	32.7	32.7	93.8	93.8	6.5	6.5	9.0	16	16	89	90	822110	817815	<0.2	1.0	1.1	1.1
											1.0	0.7	271	24.1	24.2	8.0	8.0	32.7	32.7	93.8	93.8	6.5	6.5	9.1	14	14	89	90	<0.2	1.2	1.3			
											5.3	0.6	260	24.2	24.2	8.0	8.0	32.7	32.7	93.7	93.7	6.5	6.5	13.2	16	16	90	90	<0.2	1.3	1.3			
					Middle	5.3	0.6	264	24.2	24.2	8.0	8.0	32.7	32.7	93.7	93.7	6.5	6.5	13.1	14	14	90	90	<0.2	1.0	1.0								
						9.6	0.5	268	24.2	24.2	8.0	8.0	32.7	32.7	93.5	93.5	6.5	6.5	14.5	15	15	91	91	<0.2	1.0	1.0								
						9.6	0.6	281	24.2	24.2	8.0	8.0	32.7	32.7	93.5	93.5	6.5	6.5	14.7	14	14	91	91	<0.2	1.1	1.1								
					IM1	Fine	Rough	09:19	4.7	Surface	1.0	0.1	0	23.8	23.8	8.1	8.1	34.2	34.2	97.3	97.3	6.8	6.8	8.1	15	15	89	90	817949	807112	<0.2	1.6	1.5	1.5
											1.0	0.1	0	23.8	23.8	8.1	8.1	34.2	34.2	97.3	97.3	6.8	6.8	8.1	16	16	89	90	<0.2	1.6	1.6			
											-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Middle	-	-	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	3.7	0.2	358	23.8						23.8	8.1	8.1	34.2	34.2	97.5	97.6	6.8	6.8	9.7	18	18	91	91	<0.2	1.3	1.3								
	3.7	0.2	329	23.8						23.8	8.1	8.1	34.2	34.2	97.7	97.6	6.8	6.8	10.3	16	16	90	90	<0.2	1.3	1.3								
IM2	Fine	Rough	09:30	6.8						Surface	1.0	0.2	9	23.9	23.9	8.0	8.0	33.7	33.7	98.0	98.1	6.8	6.8	9.8	17	17	88	89	818159	806179	<0.2	1.4	1.5	1.5
											1.0	0.2	9	23.9	23.9	8.0	8.0	33.7	33.7	98.1	98.1	6.8	6.8	9.8	16	16	89	90	<0.2	1.5	1.5			
											3.4	0.2	7	23.9	23.9	8.0	8.0	33.8	33.8	97.7	97.8	6.8	6.8	12.3	18	18	90	90	<0.2	1.5	1.5			
					Middle	3.4	0.3	7	23.9	23.9	8.0	8.0	33.8	33.8	97.8	97.8	6.8	6.8	12.4	18	18	90	90	<0.2	1.5	1.5								
						5.8	0.2	353	23.9	23.9	8.1	8.1	33.9	33.9	97.4	97.4	6.8	6.8	14.5	19	19	91	91	<0.2	1.6	1.6								
						5.8	0.2	325	23.9	23.9	8.1	8.1	33.9	33.9	97.4	97.4	6.8	6.8	14.6	18	18	92	92	<0.2	1.3	1.3								
					IM3	Fine	Rough	09:39	6.9	Surface	1.0	0.3	4	23.8	23.8	7.9	7.9	33.3	33.3	99.0	99.0	6.9	6.9	7.5	15	15	88	89	818782	805600	<0.2	1.3	1.4	1.4
											1.0	0.3	4	23.8	23.8	7.9	7.9	33.3	33.3	99.0	99.0	6.9	6.9	7.5	14	14	88	89	<0.2	1.3	1.3			
											3.5	0.3	356	23.9	23.9	7.9	7.9	33.5	33.5	96.8	96.8	6.7	6.7	10.6	15	15	89	89	<0.2	1.2	1.2			
Middle	3.5	0.4	328	23.9						23.9	7.9	7.9	33.5	33.5	96.8	96.8	6.7	6.7	10.9	14	14	89	89	<0.2	1.5	1.5								
	5.9	0.3	349	23.9						23.9	7.9	7.9	33.5	33.5	97.5	97.5	6.8	6.8	13.5	15	15	91	91	<0.2	1.6	1.6								
	5.9	0.3	321	23.9						23.9	7.9	7.9	33.5	33.5	97.6	97.6	6.8	6.8	13.5	13	13	90	90	<0.2	1.6	1.6								
IM4	Fine	Rough	09:50	7.6						Surface	1.0	0.4	352	23.9	23.9	7.9	7.9	33.3	33.3	97.6	97.6	6.8	6.8	15.0	18	18	88	89	819724	804614	<0.2	1.6	1.7	1.6
											1.0	0.5	324	23.9	23.9	7.9	7.9	33.3	33.3	97.6	97.6	6.8	6.8	15.3	18	18	88	89	<0.2	1.7	1.7			
											3.8	0.4	358	23.8	23.8	7.9	7.9	33.3	33.3	97.2	97.2	6.8	6.8	16.7	19	19	88	89	<0.2	2.0	2.0			
					Middle	3.8	0.5	329	23.8	23.8	7.9	7.9	33.3	33.3	97.1	97.1	6.8	6.8	16.7	18	18	89	89	<0.2	1.5	1.5								
						6.6	0.4	358	23.8	23.8	7.9	7.9	33.4	33.4	97.3	97.3	6.8	6.8	18.2	18	18	90	90	<0.2	1.5	1.5								
						6.6	0.4	329	23.8	23.8	7.9	7.9	33.4	33.4	97.2	97.2	6.8	6.8	17.9	19	19	90	90	<0.2	1.5	1.5								
					IM5	Fine	Rough	10:01	6.7	Surface	1.0	0.6	14	23.9	23.9	7.9	7.9	33.3	33.3	98.9	98.9	6.9	6.9	12.7	17	17	87	88	820738	804869	<0.2	1.7	1.7	1.7
											1.0	0.6	14	23.9	23.9	7.9	7.9	33.3	33.3	98.9	98.9	6.9	6.9	12.9	16	16	87	88	<0.2	1.9	1.9			
											3.4	0.6	14	23.9	23.9	7.9	7.9	33.3	33.3	97.7	97.8	6.8	6.8	14.5	16	16	89	89	<0.2	1.7	1.7			
Middle	3.4	0.6	14	23.9						23.9	7.9	7.9	33.3	33.3	97.9	97.8	6.8	6.8	14.6	18	18	88	88	<0.2	1.6	1.6								
	5.7	0.5	16	23.9						23.9	7.9	7.9	33.3	33.3	97.2	97.2	6.8	6.8	17.7	18	18	90	90	<0.2	1.8	1.8								
	5.7	0.6	17	23.9						23.9	7.9	7.9	33.3	33.3	97.2	97.2	6.8	6.8	17.7	20	20	90	90	<0.2	1.7	1.7								
IM6	Fine	Rough	10:09	6.8						Surface	1.0	0.2	186	23.9	23.9	7.9	7.9	33.6	33.6	98.2	98.3	6.8	6.8	10.0	18	18	87	88	821075	805816	<0.2	1.6	1.7	1.7
											1.0	0.2	186	23.9	23.9	7.9	7.9	33.6	33.6	98.3	98.3	6.8	6.8	10.0	18	18	88	88	<0.2	1.4	1.4			
											3.4	0.2	210	23.9	23.9	7.9	7.9	33.7	33.7	97.7	97.7	6.8	6.8	9.1	17	17	88	88	<0.2	1.6	1.6			
					Middle	3.4	0.2	211	23.9	23.9	7.9	7.9	33.7	33.7	97.6	97.7	6.8	6.8	9.1	17	17	89	89	<0.2	1.9	1.9								
						5.8	0.2	0	23.9	23.9	7.9	7.9	33.8	33.8	98.4	98.5	6.8	6.8	12.5	18	1													

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

Water Quality Monitoring Results on 28 November 19 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		
IM9	Fine	Moderate	10:04	7.8	Surface	1.0	0.1	346	24.0	24.0	8.0	8.0	31.1	31.1	96.2	96.3	6.8	6.8	8.0	7.8	13	14	89	90	822084	808794	<0.2	1.4	<0.2	1.2			
						8.0	0.1	318	23.9	23.9	8.0	8.0	31.1	31.1	96.3	96.3	6.8	6.8	7.8	7.8	14	14	89	89			<0.2	1.2	<0.2	1.2			
					Middle	3.9	0.1	59	23.9	23.9	8.0	8.0	31.5	31.5	96.6	96.6	6.8	6.8	5.9	5.9	13	13	89	90			<0.2	1.2	<0.2	1.2			
						3.9	0.1	64	23.9	23.9	8.0	8.0	31.5	31.5	96.6	96.6	6.8	6.8	5.9	5.9	15	15	89	90			<0.2	1.2	<0.2	1.2			
					Bottom	6.8	0.0	245	23.9	23.9	8.0	8.0	31.7	31.7	97.7	97.8	6.9	6.9	6.9	6.9	15	14	90	90			<0.2	1.2	<0.2	1.2			
						6.8	0.0	260	23.9	23.9	8.0	8.0	31.7	31.7	97.8	97.8	6.9	6.9	7.0	7.0	14	14	90	90			<0.2	1.2	<0.2	1.2			
IM10	Fine	Moderate	09:57	7.6	Surface	1.0	0.5	317	24.0	24.0	8.0	8.0	32.6	32.6	96.1	96.1	6.7	6.7	8.9	9.1	13	13	89	89	822388	809777	<0.2	1.1	<0.2	1.1			
						8.0	0.5	324	24.0	24.0	8.0	8.0	32.6	32.6	96.1	96.1	6.7	6.7	9.1	9.1	15	12	89	90			<0.2	1.1	<0.2	1.1			
					Middle	3.8	0.4	319	23.9	23.9	8.0	8.0	32.6	32.6	96.1	96.2	6.7	6.7	10.5	10.6	12	15	90	90			<0.2	1.1	<0.2	1.1			
						3.8	0.4	325	23.9	23.9	8.0	8.0	32.6	32.6	96.2	96.2	6.7	6.7	10.6	10.6	15	11	90	91			<0.2	1.1	<0.2	1.2			
					Bottom	6.6	0.5	321	23.9	23.9	8.0	8.0	32.6	32.6	97.2	97.4	6.8	6.8	10.4	10.1	11	12	91	87			<0.2	1.2	<0.2	1.3			
						6.6	0.5	332	23.9	23.9	8.0	8.0	32.6	32.6	97.5	97.5	6.8	6.8	10.1	10.1	12	12	87	87			<0.2	1.2	<0.2	1.3			
IM11	Fine	Moderate	09:47	8.3	Surface	1.0	0.4	247	24.0	24.0	8.0	8.0	32.3	32.3	96.4	96.5	6.8	6.8	10.8	10.9	14	14	88	89	822042	811457	<0.2	1.3	<0.2	1.2			
						8.0	0.4	253	24.0	24.0	8.0	8.0	32.3	32.3	96.5	96.5	6.8	6.8	10.9	11.6	14	15	89	89			<0.2	1.2	<0.2	1.2			
					Middle	4.2	0.3	265	24.0	24.0	8.0	8.0	32.3	32.3	96.3	96.3	6.7	6.7	11.3	11.3	14	15	89	90			<0.2	1.2	<0.2	1.2			
						4.2	0.3	290	24.0	24.0	8.0	8.0	32.3	32.3	96.3	96.3	6.7	6.7	11.3	11.3	15	14	90	90			<0.2	1.2	<0.2	1.2			
					Bottom	7.3	0.3	267	24.0	24.0	8.0	8.0	32.3	32.3	96.8	96.9	6.8	6.8	14.0	13.7	14	15	90	91			<0.2	1.2	<0.2	1.2			
						7.3	0.3	285	24.0	24.0	8.0	8.0	32.3	32.3	97.0	97.0	6.8	6.8	13.7	13.7	15	15	91	91			<0.2	1.2	<0.2	1.2			
IM12	Fine	Rough	09:41	8.2	Surface	1.0	0.4	267	24.0	24.0	8.0	8.0	32.4	32.4	96.2	96.2	6.7	6.7	9.1	9.2	14	13	89	90	821466	812048	<0.2	1.3	<0.2	1.2			
						8.0	0.4	268	24.0	24.0	8.0	8.0	32.4	32.4	96.2	96.1	6.7	6.7	9.2	8.7	13	16	89	90			<0.2	1.1	<0.2	1.2			
					Middle	4.1	0.4	274	24.0	24.0	8.0	8.0	32.4	32.4	96.1	96.1	6.7	6.7	8.6	8.6	16	16	90	90			<0.2	1.1	<0.2	1.1			
						4.1	0.4	284	24.0	24.0	8.0	8.0	32.4	32.4	96.1	96.2	6.7	6.7	8.6	13.0	16	14	90	91			<0.2	1.2	<0.2	1.2			
					Bottom	7.2	0.3	279	24.0	24.0	8.0	8.0	32.4	32.4	96.1	96.2	6.7	6.7	13.0	13.3	16	14	90	91			<0.2	1.2	<0.2	1.2			
						7.2	0.3	288	24.0	24.0	8.0	8.0	32.4	32.4	96.2	96.2	6.7	6.7	13.3	13.3	14	14	91	91			<0.2	1.2	<0.2	1.2			
SR1A	Fine	Moderate	09:05	4.2	Surface	1.0	-	-	23.8	23.8	8.0	8.0	32.8	32.8	91.1	91.1	6.4	6.4	5.7	5.7	9	9	-	-	819981	812663	-	-	-	-			
						8.0	-	-	23.8	23.8	8.0	8.0	32.8	32.8	91.1	91.1	6.4	6.4	5.7	5.7	9	9	-	-	-	-			-	-	-	-	
					Middle	2.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-
						2.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-
					Bottom	3.2	-	-	23.8	23.8	8.0	8.0	32.8	32.8	90.8	90.8	6.4	6.4	6.4	6.4	11	11	-	-	-	-			-	-	-	-	
						3.2	-	-	23.8	23.8	8.0	8.0	32.8	32.8	90.7	90.7	6.4	6.4	6.5	6.5	12	12	-	-	-	-			-	-	-	-	
SR2	Fine	Rough	08:47	4.4	Surface	1.0	0.7	325	24.1	24.1	8.0	8.0	32.4	32.4	95.5	95.5	6.7	6.7	10.3	10.4	15	15	88	89	821480	814157	<0.2	2.8	<0.2	2.6			
						8.0	0.7	325	24.1	24.1	8.0	8.0	32.4	32.4	95.5	95.5	6.7	6.7	10.4	10.4	15	16	89	90			<0.2	2.6	<0.2	2.6			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			<0.2	2.8	<0.2	2.6	
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			<0.2	2.8	<0.2	2.6	
					Bottom	3.4	0.6	318	24.1	24.1	8.0	8.0	32.4	32.4	95.5	95.5	6.7	6.7	11.6	11.5	16	17	90	90			<0.2	2.9	<0.2	2.9			
						3.4	0.6	343	24.1	24.1	8.0	8.0	32.4	32.4	95.5	95.5	6.7	6.7	11.5	11.5	17	17	90	90			<0.2	2.9	<0.2	2.9			
SR3	Fine	Moderate	10:15	8.8	Surface	1.0	0.2	318	24.0	24.0	8.0	8.0	31.2	31.2	95.9	95.9	6.8	6.8	5.0	5.1	8	9	-	-	822146	807584	-	-	-	-			
						8.0	0.2	326	24.0	24.0	8.0	8.0	31.2	31.2	95.9	95.9	6.8	6.8	5.1	5.1	9	8	-	-	-	-			-	-	-	-	
					Middle	4.4	0.1	340	24.0	24.0	8.0	8.0	31.5	31.5	96.2	96.3	6.8	6.8	5.4	5.4	8	9	-	-	-	-			-	-	-	-	
						4.4	0.1	343	24.0	24.0	8.0	8.0	31.5	31.5	96.3	96.3	6.8	6.8	5.4	5.4	9	6	-	-	-	-			-	-	-	-	
					Bottom	7.8	0.3	76	23.8	23.8	8.0	8.0	32.5	32.5	98.1	98.2	6.9	6.9	14.5	14.4	6	7	-	-	-	-			-	-	-	-	
						7.8	0.3	77	23.8	23.8	8.0	8.0	32.5	32.5	98.3	98.3	6.9	6.9	14.4	14.4	7	7	-	-	-	-			-	-	-	-	
SR4A	Fine	Calm	08:39	8.6	Surface	1.0	0.2	67	23.9	23.9	8.0	8.0	34.2	34.2	95.2	95.3	6.6	6.6	4.9	5.0	8	9	-	-	817206	807832	-	-	-	-			
						8.0	0.2	69	23.9	23.9	8.0	8.0	34.2	34.2	95.3	95.0	6.6	6.6	5.0	6.5	8	9	-	-	-	-			-	-	-	-	
					Middle	4.3	0.2	70	23.9	23.9	8.1	8.1	34.2	34.2	95.0	95.0	6.6	6.6	6.5	6.5	9	10	-	-	-	-			-	-	-	-	
						4.3	0.2	72	23.9	23.9	8.1	8.1	34.2	34.2	95.0	95.0	6.6	6.6	6.5	6.6	10	11	-	-	-	-			-	-	-	-	
					Bottom	7.6	0.2	62	23.8	23.8	8.1	8.1	34.2	34.2	94.5	94.5	6.6	6.6	6.6	6.6	11	10	-	-	-	-			-	-	-	-	
						7.6	0.2	62	23.8	23.8	8.1	8.1	34.2	34.2	94.5	94.5	6.6	6.6	6.6	6.6	10	10	-	-	-	-			-	-	-	-	
SR5A	Fine	Calm	08:20	3.5	Surface	1.0	0.1	302	23.8	23.8	8.1	8.1	34.3	34.3	95.6	95.6	6.6	6.6	5.4	5.4	12	11	-	-	816598	810695	-	-	-	-			
						8.1	0.1	316	23.8	23.8	8.1	8.1	34.3	34.3	95.5	95.5	6.6	6.6	5.4	5.4	11	11	-	-	-	-			-	-	-	-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-	
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-	
					Bottom	2.5	0.0	314	23.8	23.8	8.1	8.1	34.3	34.3	95.5	95.6	6.6	6.6	6.8	6.8	10	11	-	-	-	-			-	-	-	-	
						2.5	0.0	339	23.8	23.8	8.1	8.1	34.3	34.3	95.7	95.7	6.6	6.6	6.8	6.8	11	11	-	-	-	-			-	-	-	-	
SR6A	Fine	Calm	07:52	4.1	Surface	1.0	0.0	201	23.8	23.8	8.1	8.1	34.0	34.0	94.4	94.4	6.6	6.6	5.9	5.9	15	17	-	-	817950								



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

Water Quality Monitoring

Water Quality Monitoring Results on 30 November 19 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	15:05	8.5	Surface	1.0	0.3	221	23.2	23.2	8.0	8.0	<u>33.3</u>	33.4	96.0	96.0	6.8	6.8	9.5	8	86	86			88	815634	804223			<0.2	1.5	
						1.0	0.3	222	23.2	23.2	8.0	8.0	<u>33.4</u>		95.9	96.0	6.8	6.8	10.0	7	86	86			88						<0.2	1.5
						4.3	0.3	215	23.2	23.2	8.0	8.0	<u>33.5</u>		96.1	96.3	6.8	6.8	12.9	8	88	88			88						<0.2	1.5
					Middle	4.3	0.3	229	23.2	23.2	8.0	8.0	<u>33.5</u>	33.5	96.4	96.3	6.8	6.8	12.9	7	89	89			88						<0.2	1.5
						7.5	0.3	212	23.2	23.2	8.0	8.0	<u>33.5</u>		97.7	98.0	6.9	6.9	13.3	10	91	91			91						<0.2	1.5
						7.5	0.3	226	23.2	23.2	8.0	8.0	<u>33.5</u>	33.5	98.2	98.0	6.9	6.9	13.3	11	90	90			90						<0.2	1.5
					Bottom	1.0	0.4	204	23.4	23.4	8.1	8.1	<u>30.5</u>	30.5	95.9	95.9	6.9	6.9	3.8	5	83	83			83						<0.2	1.6
						1.0	0.4	205	23.4	23.4	8.1	8.1	<u>30.5</u>		95.8	95.9	6.8	6.8	3.8	6	84	84			84						<0.2	1.7
						4.4	0.4	198	23.3	23.3	8.1	8.1	<u>30.9</u>	30.9	92.3	92.3	6.6	6.6	5.3	4	88	88			88						<0.2	1.6
Bottom	4.4	0.5	205	23.3	23.3	8.1	8.1	<u>30.9</u>		92.3	92.3	6.6	6.6	5.4	5	88	88			88						<0.2	1.4					
	7.8	0.4	164	23.3	23.3	8.1	8.1	<u>31.2</u>		92.6	92.6	6.6	6.6	7.9	4	91	91			91						<0.2	1.5					
	7.8	0.4	159	23.3	23.3	8.1	8.1	<u>31.2</u>	31.2	92.6	92.6	6.6	6.6	8.0	4	91	91			91						<0.2	1.5					
C2	Fine	Rough	13:55	8.8	Surface	1.0	0.5	76	23.9	23.9	8.1	8.1	<u>32.6</u>	32.6	90.8	90.8	6.4	6.4	2.6	5	83	83			83				<0.2	1.0		
						1.0	0.5	79	23.9	23.9	8.1	8.1	<u>32.6</u>		90.8	90.8	6.4	6.4	2.6	4	84	84			84						<0.2	1.1
						5.4	0.5	90	23.7	23.7	8.1	8.1	<u>32.7</u>	32.7	87.3	87.3	6.1	6.1	5.5	3	88	88			88						<0.2	1.2
					Middle	5.4	0.5	96	23.7	23.7	8.1	8.1	<u>32.7</u>		87.3	87.3	6.1	6.1	5.5	4	88	88			88						<0.2	1.1
						9.8	0.4	88	23.7	23.7	8.1	8.1	<u>32.7</u>		87.9	88.0	6.2	6.2	6.2	3	91	91			91						<0.2	1.1
						9.8	0.4	89	23.7	23.7	8.1	8.1	<u>32.7</u>		88.0	88.0	6.2	6.2	6.2	4	92	92			92						<0.2	1.0
					Bottom	1.0	0.2	217	23.5	23.5	8.0	8.0	<u>33.5</u>	33.5	99.6	99.5	7.0	7.0	6.5	7	86	86			86						<0.2	1.2
						1.0	0.3	238	23.5	23.5	8.0	8.0	<u>33.5</u>		99.4	99.5	7.0	7.0	6.5	7	86	86			86						<0.2	1.4
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	88	817953	807108		<0.2
Bottom	3.8	0.1	191	23.3	23.3	8.0	8.0	<u>33.6</u>		99.4	99.6	7.0	7.0	6.3	7	90	90			90						<0.2	1.5					
	3.8	0.1	191	23.3	23.3	8.0	8.0	<u>33.6</u>	33.6	99.7	99.6	7.0	7.0	6.2	8	91	91			91						<0.2	1.3					
	1.0	0.2	180	23.3	23.3	8.0	8.0	<u>33.4</u>	33.4	96.0	95.9	6.8	6.8	11.4	10	86	86			86						<0.2	1.3					
Surface	1.0	0.2	196	23.3	23.3	8.0	8.0	<u>33.4</u>		95.8	95.8	6.8	6.8	11.6	10	86	86			86						<0.2	1.2					
	3.9	0.2	173	23.2	23.2	8.0	8.0	<u>33.4</u>	33.4	95.6	95.7	6.8	6.8	11.8	14	87	87			87						<0.2	1.2					
	3.9	0.2	179	23.2	23.2	8.0	8.0	<u>33.4</u>		95.7	95.7	6.8	6.8	11.8	16	89	89			89						<0.2	1.3					
Middle	6.8	0.2	133	23.2	23.2	8.0	8.0	<u>33.4</u>		96.1	96.2	6.8	6.8	16.2	19	90	90			90						<0.2	1.4					
	6.8	0.2	140	23.2	23.2	8.0	8.0	<u>33.4</u>	33.4	96.2	96.2	6.8	6.8	16.2	21	91	91			91						<0.2	1.5					
	1.0	0.2	209	23.2	23.2	8.0	8.0	<u>33.2</u>	33.2	94.9	94.9	6.7	6.7	14.6	12	86	86			86						<0.2	1.1					
Surface	1.0	0.3	214	23.1	23.1	8.0	8.0	<u>33.2</u>		94.9	94.9	6.7	6.7	14.2	13	87	87			87						<0.2	1.1					
	3.6	0.1	161	23.1	23.1	8.0	8.0	<u>33.2</u>	33.2	95.0	95.1	6.7	6.7	12.4	18	88	88			88						<0.2	1.1					
	3.6	0.2	166	23.1	23.1	8.0	8.0	<u>33.2</u>		95.1	95.1	6.7	6.7	12.4	19	89	89			89						<0.2	1.3					
Middle	6.2	0.1	140	23.1	23.1	8.0	8.0	<u>33.2</u>		97.1	97.2	6.9	6.9	16.0	29	90	90			90						<0.2	1.4					
	6.2	0.1	153	23.1	23.1	8.0	8.0	<u>33.2</u>	33.2	97.3	97.2	6.9	6.9	15.9	28	91	91			91						<0.2	1.2					
	1.0	0.2	175	23.1	23.1	8.0	8.0	<u>32.8</u>	32.8	94.9	94.9	6.7	6.7	10.2	11	86	86			86						<0.2	1.3					
Surface	1.0	0.3	183	23.1	23.1	8.0	8.0	<u>32.8</u>		94.9	94.9	6.7	6.7	10.8	12	85	85			85						<0.2	1.3					
	3.8	0.2	165	23.0	23.0	8.0	8.0	<u>32.8</u>	32.8	95.5	95.5	6.8	6.8	14.3	20	88	88			88						<0.2	1.3					
	3.8	0.2	166	23.0	23.0	8.0	8.0	<u>32.8</u>		95.5	95.5	6.8	6.8	14.3	20	88	88			88						<0.2	1.2					
Middle	6.5	0.2	160	23.0	23.0	8.0	8.0	<u>32.8</u>	32.8	96.5	96.6	6.8	6.8	17.0	17	90	90			90						<0.2	1.3					
	6.5	0.3	164	23.0	23.0	8.0	8.0	<u>32.8</u>		96.6	96.6	6.9	6.9	17.1	17	91	91			91						<0.2	1.3					
	1.0	0.2	204	23.1	23.1	8.0	8.0	<u>33.0</u>	33.0	94.3	94.3	6.7	6.7	12.8	9	86	86			86						<0.2	1.2					
Surface	1.0	0.2	210	23.1	23.1	8.0	8.0	<u>33.1</u>		94.3	94.3	6.7	6.7	12.5	10	85	85			85						<0.2	1.2					
	3.7	0.2	169	23.1	23.1	8.0	8.0	<u>33.1</u>	33.1	94.3	94.4	6.7	6.7	13.6	14	87	87			87						<0.2	1.1					
	3.7	0.2	181	23.1	23.1	8.0	8.0	<u>33.1</u>		94.4	94.4	6.7	6.7	13.6	12	89	89			89						<0.2	1.0					
Middle	6.3	0.2	153	23.1	23.1	8.0	8.0	<u>33.2</u>	33.2	95.9	95.9	6.8	6.8	15.3	16	90	90			90						<0.2	1.3					
	6.3	0.2	161	23.1	23.1	8.0	8.0	<u>33.2</u>		95.9	95.9	6.8	6.8	15.3	14	91	91			91						<0.2	1.1					
	1.0	0.2	261	23.2	23.2	8.0	8.0	<u>33.2</u>	33.2	95.9	95.9	6.8	6.8	8.9	11	86	86			86						<0.2	1.1					
Surface	1.0	0.2	280	23.2	23.2	8.0	8.0	<u>33.2</u>		95.9	95.9	6.8	6.8	9.0	10	85	85			85						<0.2	1.0					
	3.9	0.1	273	23.2	23.2	8.0	8.0	<u>33.2</u>	33.2	95.9	95.9	6.8	6.8	9.5	11	88	88			88						<0.2	1.0					
	3.9	0.1	274	23.2	23.2	8.0	8.0	<u>33.2</u>		95.9	95.9	6.8	6.8	9.7	11	89	89			89						<0.2	1.1					
Middle	6.8	0.1	195	23.2	23.2	8.0	8.0	<u>33.2</u>	33.2	96.9	97.0	6.8	6.8	9.8	11	90	90			90						<0.2	1.1					
	6.8	0.1	214	23.2	23.2	8.0	8.0	<u>33.2</u>		97.1	97.0	6.9	6.9	9.6	12	91	91			91						<0.2	1.1					
	1.0	0.1	305	23.6	23.6	8.0	8.0	<u>31.9</u>	31.9	95.9	96.0	6.8	6.8	4.3	4	86	86			86						<0.2	1.1					
Surface	1.0	0.1	333	23.6	23.6	8.0	8.0	<u>31.9</u>		96.0	96.0	6.8	6.8	4.3	5	85	85			85						<0.2	1.3					
	4.1	0.0	218	23.3	23.3	8.0	8.0	<u>33.0</u>	33.0	95.7	95.7	6.8	6.8	5.6	6	88	88			88						<0.2	0.8					
	4.1	0.0	229	23.3	23.3</																											



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

Water Quality Monitoring Results on 30 November 19 during Mid-Flood Tide

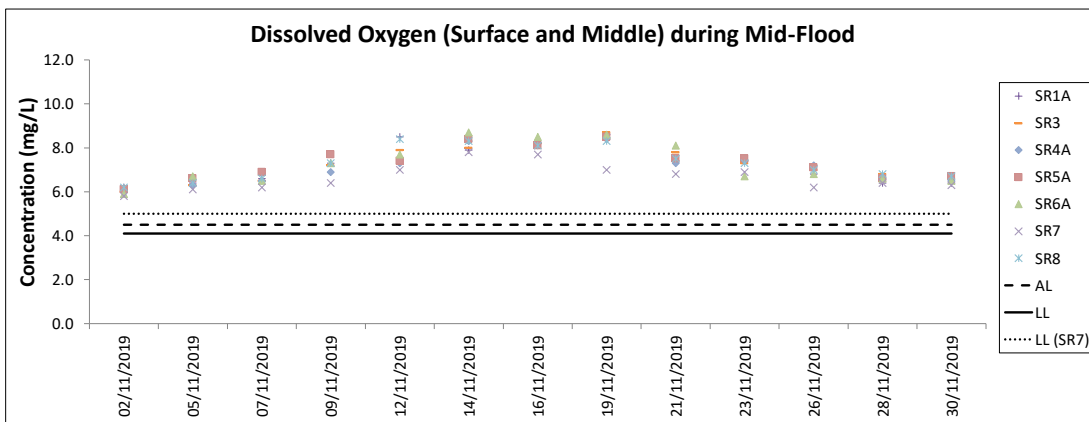
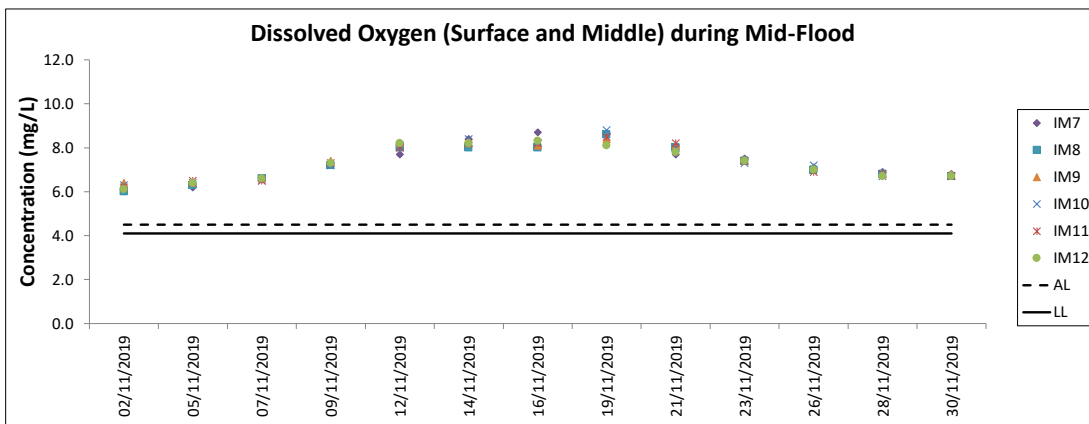
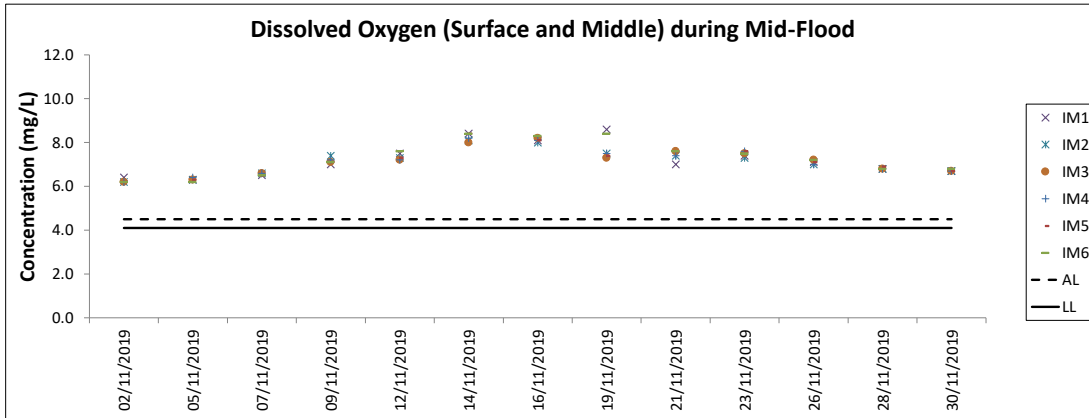
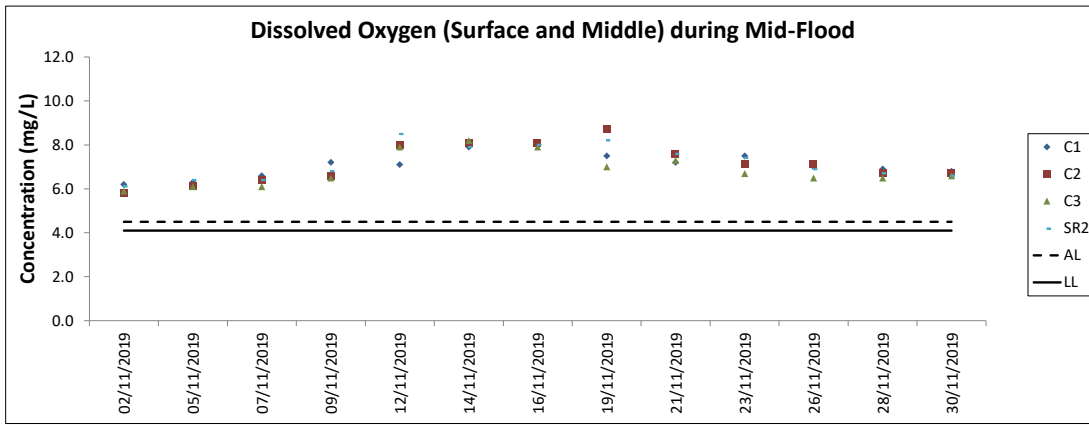
Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity (NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (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	10:45	8.0	Surface	1.0	0.5	52	23.1	23.1	8.0	8.0	32.9	32.9	95.6	95.6	6.8	6.8	6.9	8	8	86	88	88	815641	804239	<0.2	0.9	<0.2	0.9			
						1.0	0.5	54	23.1	8.0	8.0	32.9	32.9	95.5	95.5	6.8	6.8	6.9	8	8	87	88	88	88	88	88	88	<0.2	1.1	<0.2	1.1		
						4.0	0.4	36	23.1	23.1	8.0	8.0	33.5	33.5	94.5	94.5	6.7	6.7	14.4	12.0	9	9	88	88	89	88	88	88	<0.2	1.2	<0.2	1.2	
					Middle	4.0	0.4	36	23.1	23.1	8.0	8.0	33.5	33.5	94.5	94.5	6.7	6.7	14.1	12.0	9	9	89	88	90	88	88	88	88	<0.2	1.1	<0.2	1.1
						7.0	0.4	38	23.2	23.2	8.0	8.0	33.8	33.8	94.8	94.8	6.7	6.7	14.8	12.0	11	11	90	88	90	88	88	88	88	<0.2	1.1	<0.2	1.1
						7.0	0.4	39	23.2	23.2	8.0	8.0	33.8	33.8	94.8	94.8	6.7	6.7	14.8	12.0	12	12	90	88	90	88	88	88	88	<0.2	1.0	<0.2	1.0
					Bottom	1.0	0.3	331	23.4	23.4	8.1	8.1	30.6	30.6	94.0	94.0	6.7	6.7	4.3	4.8	4	4	85	88	85	88	88	88	88	<0.2	1.6	<0.2	1.6
						1.0	0.3	337	23.4	23.4	8.1	8.1	30.6	30.6	93.9	93.9	6.7	6.7	4.3	4.8	5	5	85	88	85	88	88	88	88	<0.2	1.5	<0.2	1.5
						4.3	0.3	5	23.4	23.4	8.1	8.1	30.8	30.8	93.0	93.0	6.6	6.6	5.0	4.8	6	6	88	88	88	88	88	88	88	<0.2	1.6	<0.2	1.6
C2	Sunny	Moderate	11:57	8.6	Surface	1.0	0.3	331	23.4	23.4	8.1	8.1	30.6	30.6	94.0	94.0	6.7	6.7	4.3	4.8	4	4	85	88	88	825670	806946	<0.2	1.6	<0.2	1.6		
						1.0	0.3	337	23.4	23.4	8.1	8.1	30.6	30.6	93.9	93.9	6.7	6.7	4.3	4.8	5	5	85	88	85	88	88	88	88	<0.2	1.5	<0.2	1.5
						4.3	0.3	5	23.4	23.4	8.1	8.1	30.8	30.8	93.0	93.0	6.6	6.6	5.0	4.8	6	6	88	88	88	88	88	88	88	<0.2	1.6	<0.2	1.6
					Middle	4.3	0.3	5	23.3	23.3	8.1	8.1	30.9	30.9	93.0	93.0	6.6	6.6	4.9	4.8	6	6	89	88	89	88	88	88	88	<0.2	1.5	<0.2	1.5
						7.6	0.3	35	23.3	23.3	8.1	8.1	31.0	31.0	93.9	93.9	6.7	6.7	5.1	4.8	6	6	91	88	91	88	88	88	88	<0.2	1.6	<0.2	1.6
						7.6	0.3	36	23.3	23.3	8.1	8.1	31.0	31.0	94.1	94.1	6.7	6.7	5.1	4.8	6	6	91	88	91	88	88	88	88	<0.2	1.4	<0.2	1.4
					Bottom	1.0	0.3	262	23.3	23.3	8.1	8.1	31.8	31.8	92.4	92.4	6.6	6.6	5.0	7.9	7	7	83	88	83	88	88	88	88	<0.2	1.1	<0.2	1.1
						1.0	0.4	279	23.3	23.3	8.1	8.1	31.8	31.8	92.4	92.4	6.6	6.6	5.1	7.9	8	8	84	88	84	88	88	88	88	<0.2	1.1	<0.2	1.1
						5.7	0.3	257	23.3	23.3	8.1	8.1	31.9	31.9	91.8	91.8	6.5	6.5	7.9	7.9	7	7	88	88	88	88	88	88	88	<0.2	1.0	<0.2	1.0
C3	Sunny	Moderate	09:08	11.3	Surface	1.0	0.3	262	23.3	23.3	8.1	8.1	31.8	31.8	92.4	92.4	6.6	6.6	5.0	7.9	7	7	83	88	88	822095	817818	<0.2	1.1	<0.2	1.1		
						1.0	0.4	279	23.3	23.3	8.1	8.1	31.8	31.8	92.4	92.4	6.6	6.6	5.1	7.9	8	8	84	88	84	88	88	88	88	<0.2	1.1	<0.2	1.1
						5.7	0.3	257	23.3	23.3	8.1	8.1	31.9	31.9	91.8	91.8	6.5	6.5	7.9	7.9	7	7	88	88	88	88	88	88	88	<0.2	1.0	<0.2	1.0
					Middle	5.7	0.3	257	23.3	23.3	8.1	8.1	31.9	31.9	91.7	91.7	6.5	6.5	7.9	7.9	6	6	88	88	88	88	88	88	88	<0.2	0.9	<0.2	0.9
						10.3	0.3	260	23.3	23.3	8.1	8.1	31.9	31.9	91.6	91.6	6.5	6.5	10.8	10.8	9	9	91	88	91	88	88	88	88	<0.2	1.1	<0.2	1.1
						10.3	0.3	275	23.3	23.3	8.1	8.1	31.9	31.9	91.6	91.6	6.5	6.5	10.9	10.9	10	10	91	88	91	88	88	88	88	<0.2	1.0	<0.2	1.0
					Bottom	1.0	0.2	354	23.2	23.2	8.0	8.0	33.5	33.5	95.2	95.2	6.7	6.7	10.4	11.4	9	9	86	88	86	88	88	88	88	<0.2	0.9	<0.2	0.9
						1.0	0.2	326	23.2	23.2	8.0	8.0	33.6	33.6	95.3	95.3	6.7	6.7	10.6	11.4	10	10	86	88	86	88	88	88	88	<0.2	1.1	<0.2	1.1
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bottom	3.8	0.2	356	23.1	23.1	8.0	8.0	33.6	33.6	97.3	97.3	6.9	6.9	12.3	11.4	14	14	90	88	90	88	88	88	88	<0.2	1.1	<0.2	1.1					
	3.8	0.2	328	23.1	23.1	8.0	8.0	33.6	33.6	97.5	97.5	6.9	6.9	12.4	11.4	16	16	90	88	90	88	88	88	88	<0.2	1.0	<0.2	1.0					
	IM1	Cloudy	Moderate	11:04	4.8	Surface	1.0	0.3	21	23.2	23.2	8.0	8.0	33.2	33.2	95.4	95.4	6.7	6.7	10.2	11	11	86	88	88	817972	807134	<0.2	1.4	<0.2	1.4		
1.0							0.3	21	23.2	23.2	8.0	8.0	33.2	33.2	95.2	95.2	6.7	6.7	10.2	11	11	86	88	86	88	88	88	88	<0.2	1.2	<0.2	1.2	
3.6							0.3	4	23.1	23.1	8.0	8.0	33.5	33.5	94.4	94.4	6.7	6.7	13.8	13.0	14	14	89	88	89	88	88	88	88	<0.2	1.3	<0.2	1.3
Middle						3.6	0.3	4	23.1	23.1	8.0	8.0	33.5	33.5	94.4	94.4	6.7	6.7	13.8	13.0	15	15	88	88	88	88	88	88	88	<0.2	1.2	<0.2	1.2
						6.2	0.2	345	23.0	23.0	8.0	8.0	33.6	33.6	95.2	95.2	6.7	6.7	15.0	13.0	13	13	90	88	90	88	88	88	88	<0.2	1.2	<0.2	1.2
						6.2	0.2	359	23.0	23.0	8.0	8.0	33.6	33.6	95.5	95.5	6.8	6.8	15.0	13.0	15	15	90	88	90	88	88	88	88	<0.2	1.2	<0.2	1.2
Bottom						1.0	0.3	352	23.2	23.2	8.0	8.0	33.0	33.0	94.4	94.4	6.7	6.7	10.1	11.4	9	9	85	88	85	88	88	88	88	<0.2	1.5	<0.2	1.5
						1.0	0.3	324	23.1	23.1	8.0	8.0	33.0	33.0	94.3	94.3	6.7	6.7	10.5	11.4	10	10	86	88	86	88	88	88	88	<0.2	1.4	<0.2	1.4
						3.6	0.3	343	23.1	23.1	8.0	8.0	33.1	33.1	93.9	93.9	6.6	6.6	13.4	12.0	11	11	88	88	88	88	88	88	88	<0.2	1.0	<0.2	1.0
Bottom	3.6	0.3	316	23.1	23.1	8.0	8.0	33.2	33.2	93.8	93.8	6.6	6.6	13.4	12.0	12	12	87	88	87	88	88	88	88	<0.2	1.0	<0.2	1.0					
	6.2	0.2	325	23.1	23.1	8.0	8.0	33.4	33.4	93.8	93.8	6.6	6.6	12.3	12.0	15	15	90	88	90	88	88	88	88	<0.2	1.2	<0.2	1.2					
	6.2	0.2	346	23.1	23.1	8.0	8.0	33.4	33.4	93.9	93.9	6.6	6.6	12.3	12.0	15	15	90	88	90	88	88	88	88	<0.2	1.2	<0.2	1.2					
IM2	Cloudy	Moderate	11:13	7.2	Surface	1.0	0.3	21	23.2	23.2	8.0	8.0	33.2	33.2	95.4	95.4	6.7	6.7	10.2	11	11	86	88	88	818175	806173	<0.2	1.4	<0.2	1.4			
						1.0	0.3	21	23.2	23.2	8.0	8.0	33.2	33.2	95.2	95.2	6.7	6.7	10.2	11	11	86	88	86	88	88	88	88	<0.2	1.2	<0.2	1.2	
						3.6	0.3	4	23.1	23.1	8.0	8.0	33.5	33.5	94.4	94.4	6.7	6.7	13.8	13.0	14	14	89	88	89	88	88</						

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

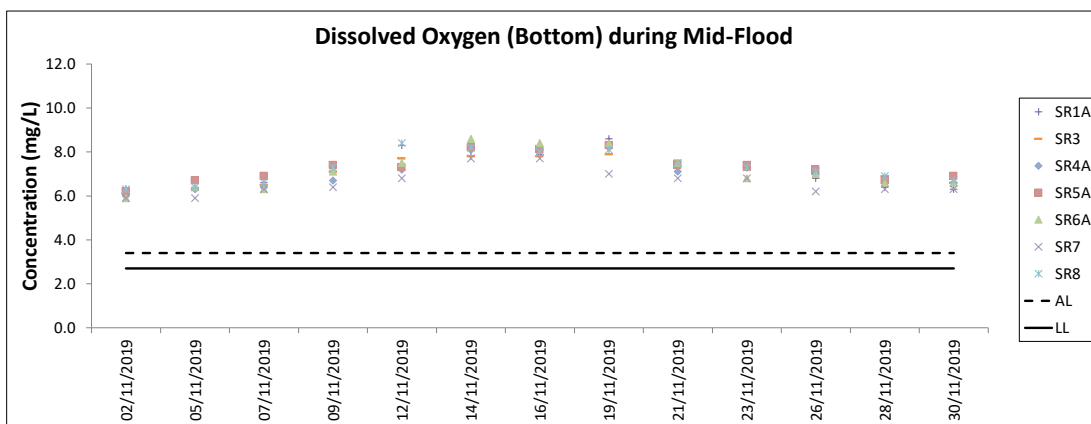
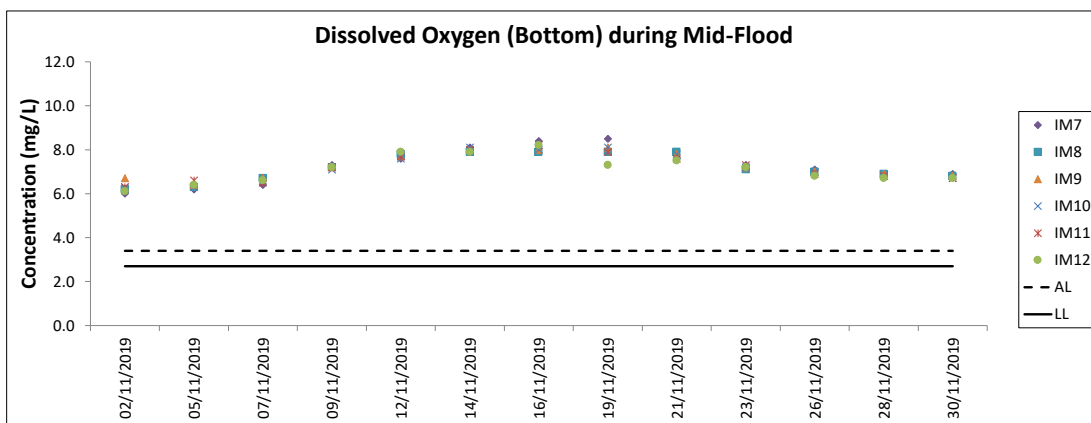
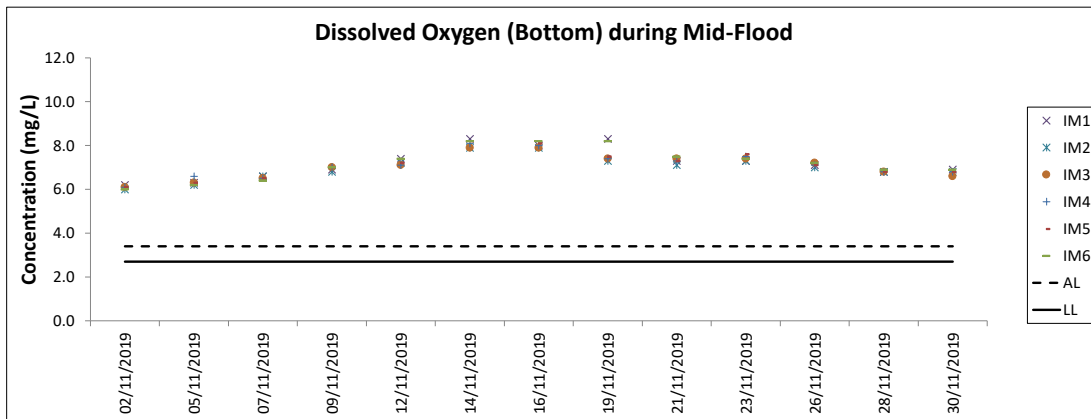
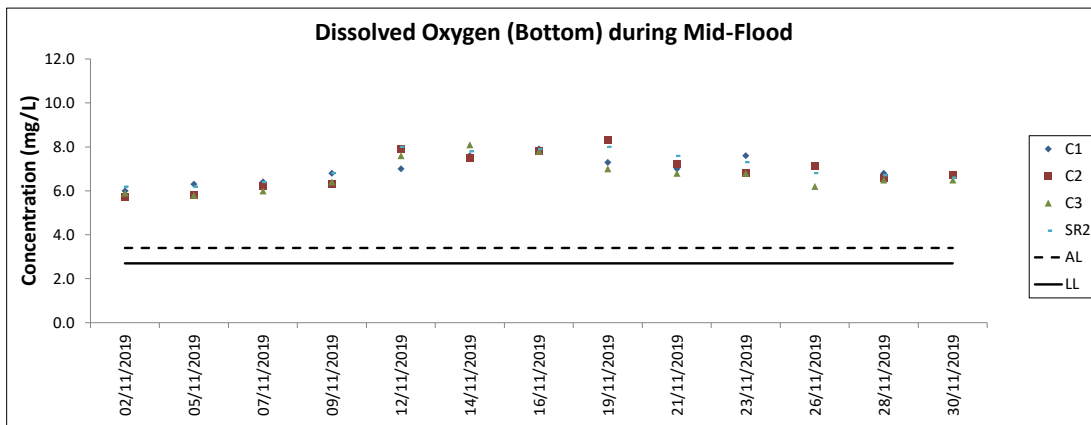
**Water Quality Monitoring Results on 30 November 19 during Mid-Flood Tide**

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	Sunny	Moderate	11:17	7.8	Surface	1.0	0.1	325	22.9	22.9	8.1	8.1	31.6	31.6	95.2	95.2	6.8	6.8	7.6	10	83	89	822078	808833	<0.2	1.5							
						1.0	0.1	354	22.9	22.9	8.1	8.1	31.6	31.6	95.2	95.2	6.8	6.8	7.6	11	85	89	822078	808833	<0.2	1.4							
						3.9	0.2	210	22.9	22.9	8.1	8.1	31.6	31.6	94.9	94.9	6.8	6.8	9.1	10	90	89	822078	808833	<0.2	1.4							
					Middle	3.9	0.2	215	22.9	22.9	8.1	8.1	31.6	31.6	94.9	94.9	6.8	6.8	9.2	11	90	89	822078	808833	<0.2	1.3							
						6.8	0.2	320	23.0	23.0	8.1	8.1	31.6	31.6	95.0	95.1	6.8	6.8	11.0	9	92	89	822078	808833	<0.2	1.3							
						6.8	0.2	346	23.0	23.0	8.1	8.1	31.6	31.6	95.1	95.1	6.8	6.8	11.1	10	92	89	822078	808833	<0.2	1.2							
					Bottom	1.0	0.4	302	23.1	23.1	8.1	8.1	31.9	31.9	93.9	93.9	6.7	6.7	2.6	12	85	88	822078	808833	<0.2	1.4							
						1.0	0.4	331	23.1	23.1	8.1	8.1	31.9	31.9	93.9	93.9	6.7	6.7	2.6	13	85	88	822078	808833	<0.2	1.5							
						3.8	0.4	295	23.1	23.1	8.1	8.1	31.9	31.9	93.5	93.5	6.7	6.7	3.3	14	88	89	822078	808833	<0.2	1.5							
IM10	Sunny	Moderate	11:11	7.6	Middle	3.8	0.4	314	23.1	23.1	8.1	8.1	31.9	31.9	93.5	93.5	6.7	6.7	3.4	13	89	88	822398	809816	<0.2	1.4							
						6.6	0.4	309	23.1	23.1	8.1	8.1	31.9	31.9	93.7	93.7	6.7	6.7	4.7	14	91	89	822398	809816	<0.2	1.5							
						6.6	0.4	321	23.1	23.1	8.1	8.1	31.9	31.9	93.7	93.7	6.7	6.7	4.7	16	91	89	822398	809816	<0.2	1.4							
IM11	Sunny	Moderate	11:02	8.5	Surface	1.0	0.6	286	23.2	23.2	8.1	8.1	31.8	31.8	94.0	94.0	6.7	6.7	8.3	12	85	89	822037	811437	<0.2	1.5							
						1.0	0.6	304	23.2	23.2	8.1	8.1	31.8	31.8	94.0	94.0	6.7	6.7	8.3	11	85	89	822037	811437	<0.2	1.5							
						4.3	0.5	279	23.2	23.2	8.1	8.1	31.8	31.8	93.8	93.8	6.7	6.7	9.0	11	88	89	822037	811437	<0.2	1.4							
					Middle	4.3	0.5	304	23.2	23.2	8.1	8.1	31.8	31.8	93.8	93.8	6.7	6.7	9.1	10	88	89	822037	811437	<0.2	1.4							
						7.5	0.3	298	23.1	23.1	8.1	8.1	31.8	31.8	93.7	93.7	6.7	6.7	9.8	10	91	89	822037	811437	<0.2	1.4							
						7.5	0.3	324	23.1	23.1	8.1	8.1	31.8	31.8	93.7	93.7	6.7	6.7	9.9	10	92	89	822037	811437	<0.2	1.5							
					Bottom	1.0	0.4	258	23.2	23.2	8.1	8.1	31.8	31.8	93.5	93.5	6.7	6.7	2.5	11	85	88	822037	811437	<0.2	1.5							
						1.0	0.4	265	23.2	23.2	8.1	8.1	31.8	31.8	93.5	93.5	6.7	6.7	2.5	10	85	88	822037	811437	<0.2	1.6							
						4.3	0.4	243	23.2	23.2	8.1	8.1	31.8	31.8	93.4	93.4	6.7	6.7	3.6	11	89	89	822037	811437	<0.2	1.4							
IM12	Sunny	Moderate	10:57	8.6	Middle	4.3	0.4	244	23.2	23.2	8.1	8.1	31.8	31.8	93.4	93.4	6.7	6.7	3.6	10	89	88	821469	812035	<0.2	1.4							
						7.6	0.3	257	23.1	23.1	8.1	8.1	31.8	31.8	94.0	94.1	6.7	6.7	6.2	10	91	89	821469	812035	<0.2	1.3							
						7.6	0.4	278	23.1	23.1	8.1	8.1	31.8	31.8	94.1	94.1	6.7	6.7	6.2	9	91	89	821469	812035	<0.2	1.3							
SR1A	Sunny	Moderate	10:26	4.8	Surface	1.0	-	-	23.1	23.1	8.1	8.1	31.7	31.7	89.1	89.1	6.4	6.4	3.4	8	-	-	819976	812659	-	-							
						1.0	-	-	23.1	23.1	8.1	8.1	31.7	31.7	89.0	89.0	6.4	6.4	3.5	7	-	-	819976	812659	-	-							
						2.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	819976	812659	-	-					
					Middle	2.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	819976	812659	-	-					
						3.8	-	-	23.0	23.0	8.1	8.1	31.7	31.7	88.3	88.3	6.3	6.3	6.5	8	-	-	-	-	819976	812659	-	-					
						3.8	-	-	23.0	23.0	8.1	8.1	31.7	31.7	88.3	88.3	6.3	6.3	6.6	7	-	-	-	-	819976	812659	-	-					
					Bottom	1.0	0.1	199	23.1	23.1	8.1	8.1	31.9	31.9	92.3	92.3	6.6	6.6	2.1	14	83	84	-	-	819976	812659	<0.2	1.2					
						1.0	0.2	200	23.1	23.1	8.1	8.1	31.9	31.9	92.3	92.3	6.6	6.6	2.2	13	84	84	-	-	819976	812659	<0.2	1.1					
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	819976	812659	-	-				
SR2	Sunny	Moderate	09:28	4.6	Surface	1.0	0.1	199	23.1	23.1	8.1	8.1	31.9	31.9	92.3	92.3	6.6	6.6	2.1	14	83	84	821477	814178	<0.2	1.2							
						1.0	0.2	200	23.1	23.1	8.1	8.1	31.9	31.9	92.3	92.3	6.6	6.6	2.2	13	84	84	821477	814178	<0.2	1.1							
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	821477	814178	-	-					
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	821477	814178	-	-					
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	821477	814178	-	-					
						3.6	0.1	248	23.1	23.1	8.1	8.1	31.9	31.9	92.7	92.7	6.6	6.6	3.9	12	88	89	-	-	821477	814178	<0.2	1.2					
					Bottom	3.6	0.2	260	23.1	23.1	8.1	8.1	31.9	31.9	92.7	92.7	6.6	6.6	4.0	13	89	89	-	-	821477	814178	<0.2	1.2					
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	821477	814178	-	-				
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	821477	814178	-	-				
SR3	Sunny	Moderate	11:27	8.2	Surface	1.0	0.1	16	23.4	23.4	8.1	8.1	30.9	30.9	93.1	93.1	6.6	6.6	5.9	7	-	-	822150	807575	-	-							
						1.0	0.1	16	23.4	23.4	8.1	8.1	30.9	30.9	93.0	93.1	6.6	6.6	5.9	7	-	-	-	-	822150	807575	-	-					
						4.1	0.1	324	23.3	23.3	8.1	8.1	30.9	30.9	92.3	92.3	6.6	6.6	7.7	6	-	-	-	-	822150	807575	-	-					
					Middle	4.1	0.1	324	23.3	23.3	8.1	8.1	30.9	30.9	92.3	92.3	6.6	6.6	7.7	5	-	-	-	-	822150	807575	-	-					
						7.2	0.1	53	23.4	23.4	8.1	8.1	30.9	30.9	92.2	92.3	6.6	6.6	11.5	6	-	-	-	-	822150	807575	-	-					
						7.2	0.1	54	23.4	23.4	8.1	8.1	30.9	30.9	92.3	92.3	6.6	6.6	11.4	6	-	-	-	-	822150	807575	-	-					
					Bottom	1.0	0.1	79	23.0	23.0	8.0	8.0	32.8	32.8	92.3	92.3	6.6	6.6	7.1	9	-	-	-	-	822150	807575	-	-					
						1.0	0.1	83	23.0	23.0	8.0	8.0	32.8	32.8	92.2	92.3	6.5	6.5	7.3	8	-	-	-	-	822150	807575	-	-					
						4.3	0.1	76	22.9	22.9	8.0	8.0	32.8	32.8	92.1	92.1	6.5	6.5	8.0	10	-	-	-	-	822150	807575	-	-					
SR4A	Cloudy	Moderate	10:23	8.5	Middle	4.3	0.1	80	22.9	22.9	8.0	8.0	32.8	32.8	92.1	92.1	6.5	6.5	8.1	11	-	-	817211	807831	-	-							
						7.5	0.1	93	22.9	22.9	8.0	8.0	32.8	32.8	92.4	92.5	6.6	6.6	8.7	11	-	-	-	-	817211	807831	-	-					
						7.5	0.1	94	22.9	22.9	8.0	8.0	32.8	32.8	92.5	92.5	6.6	6.6	8.8	10	-	-	-	-	817211	807831	-	-					
Bottom	1.0	0.1	320	23.0	23.0	8.0	8.0	32.7	32.7	94.6	94.7	6.7	6.7	7.8	16	-	-	-	-	817211	807831	-	-										
	1.0	0.1	336	23.0	23.0	8.0	8.0	32.7	32.7	94.8	94.7	6.7	6.7	7.7	16	-	-	-	-	817211	807831	-	-										
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	817211	807831	-	-									
SR5A	Cloudy	Moderate	10:05	4.8	Surface	1.0	0.1	320	23.0	23.0	8.0	8.0	32.7	32.7	94.6	94.7	6.7	6.7	7.8	16	-	-	816600	810710	-	-							

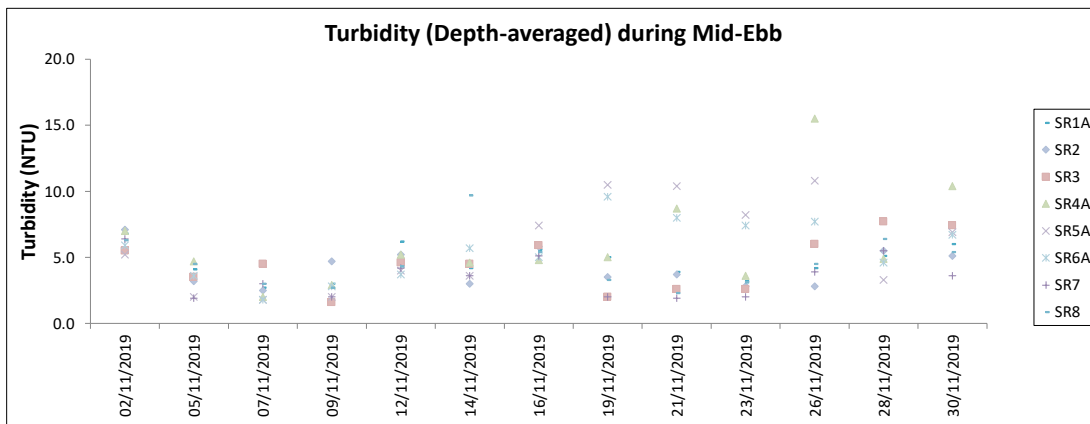
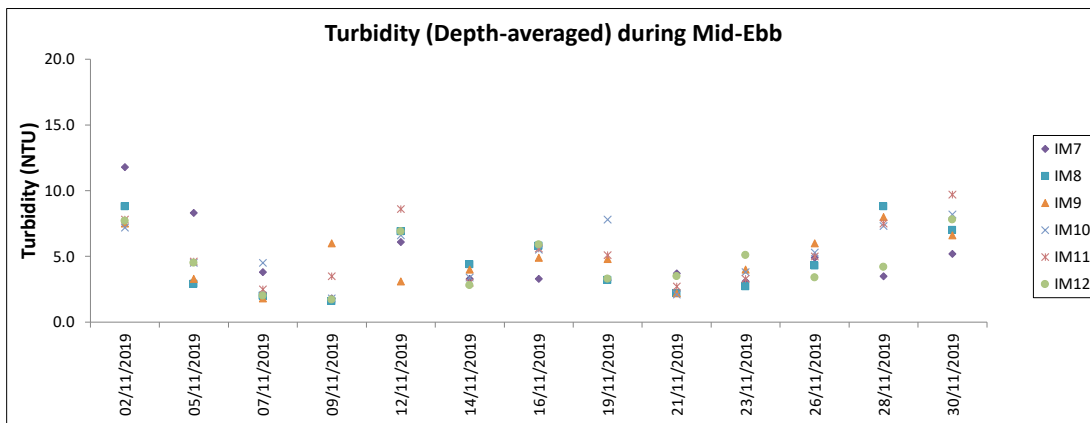
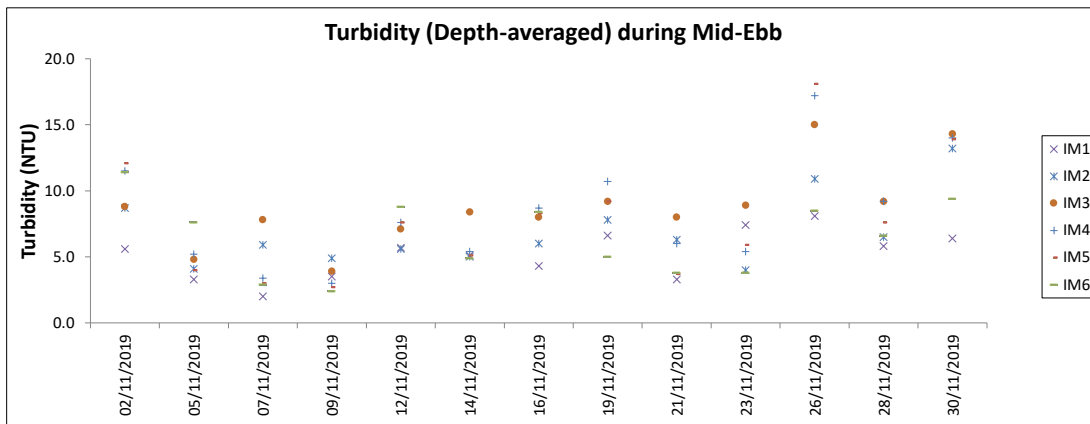
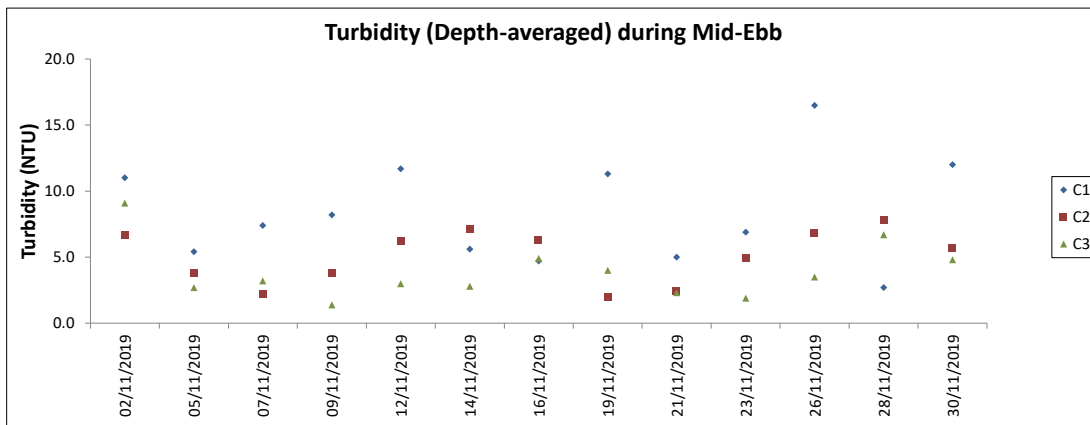




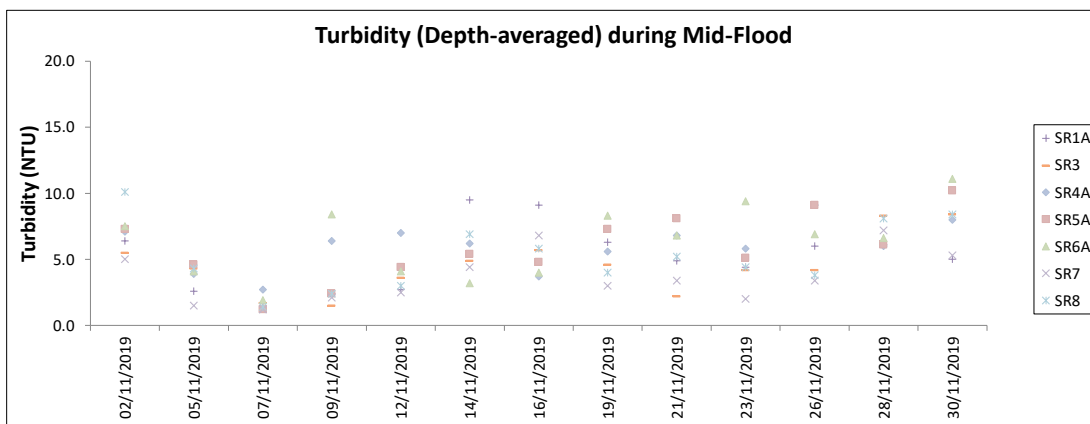
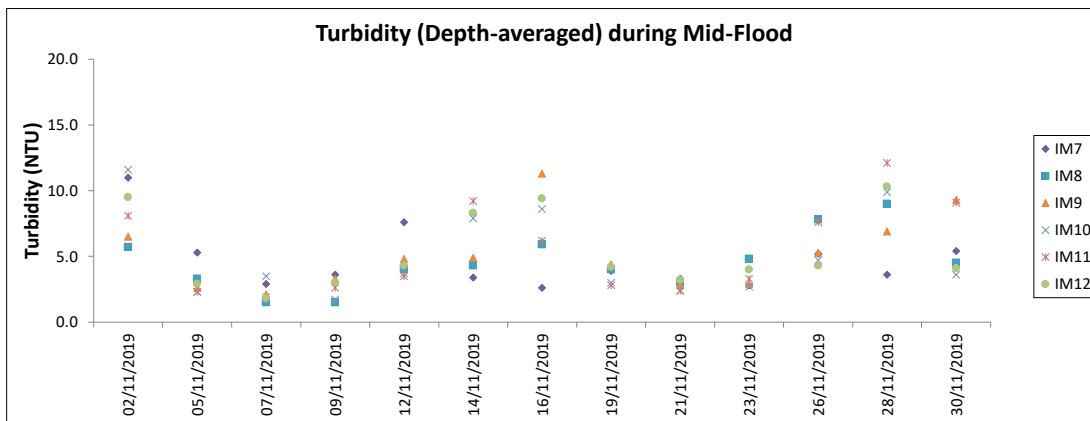
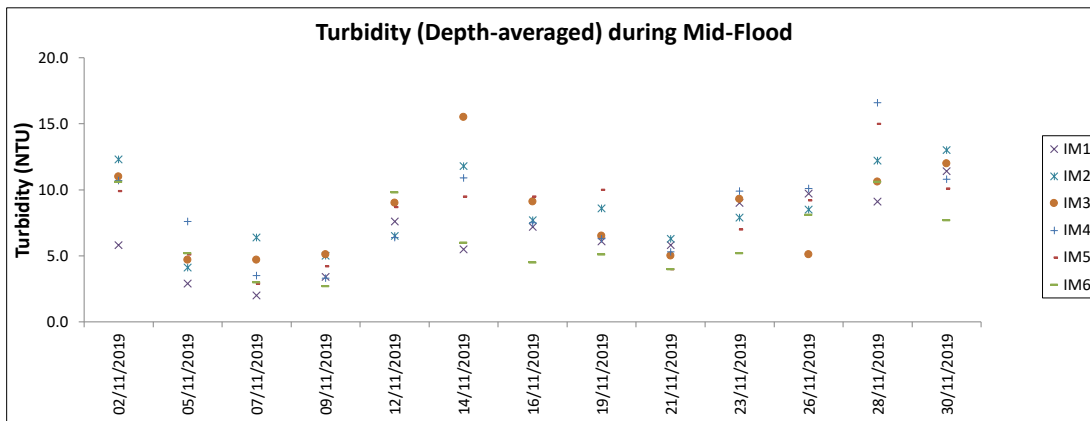
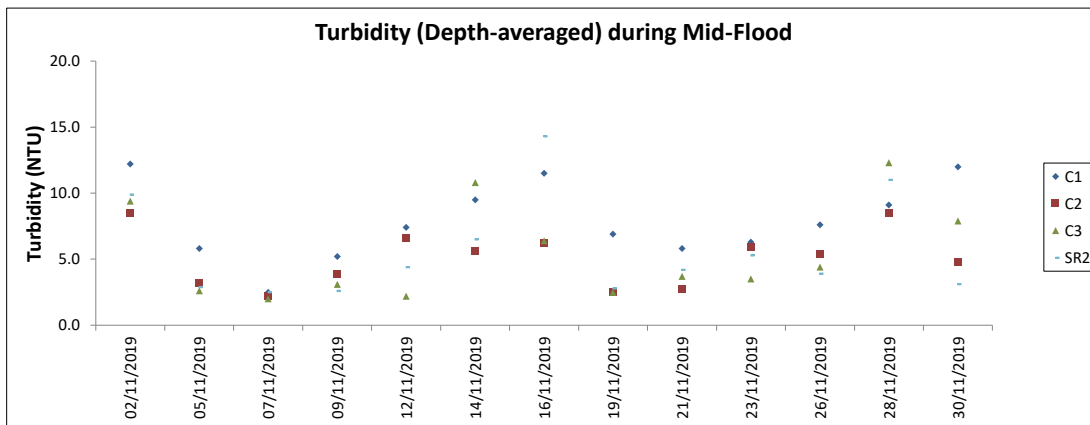




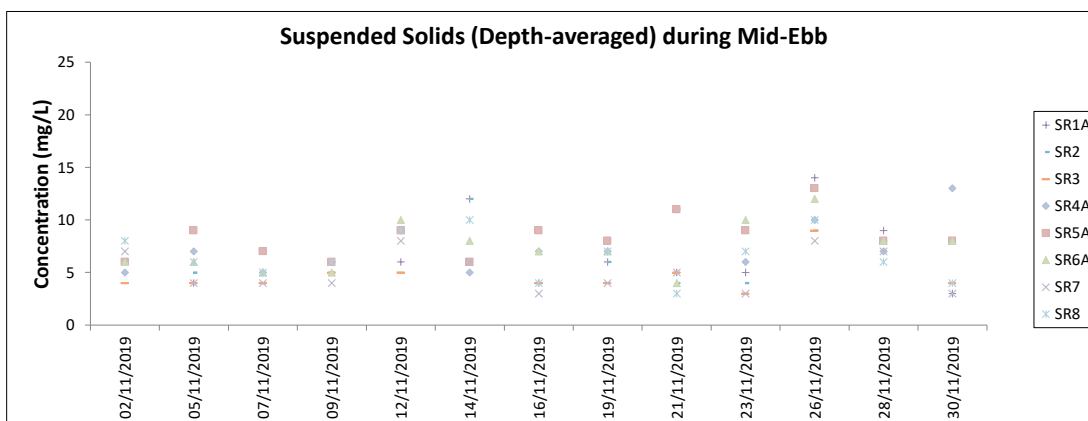
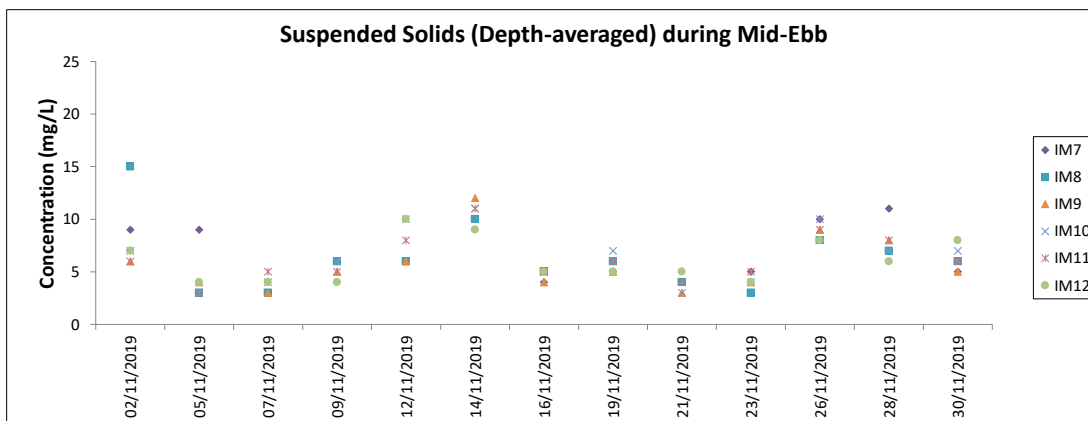
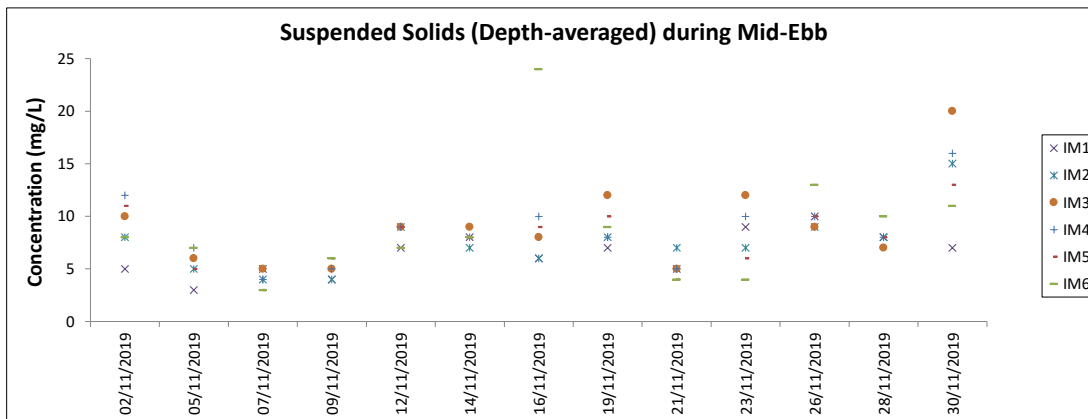
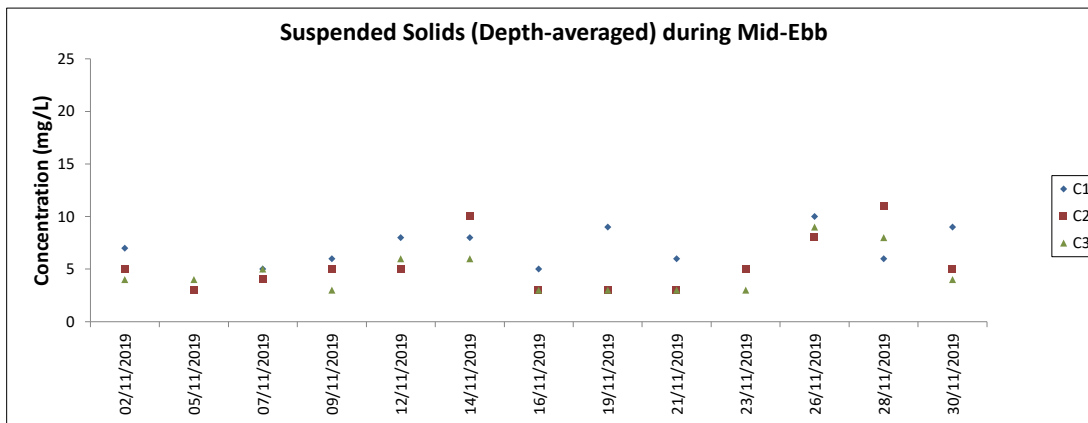




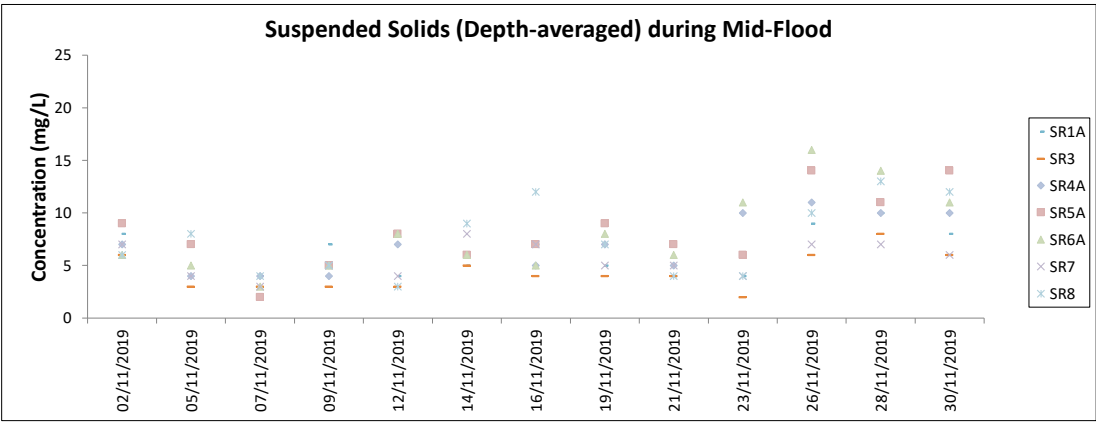
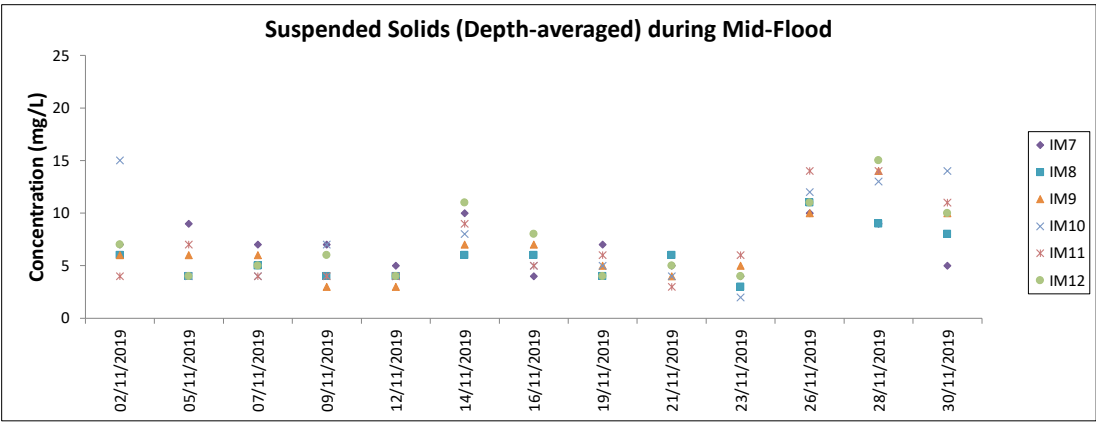
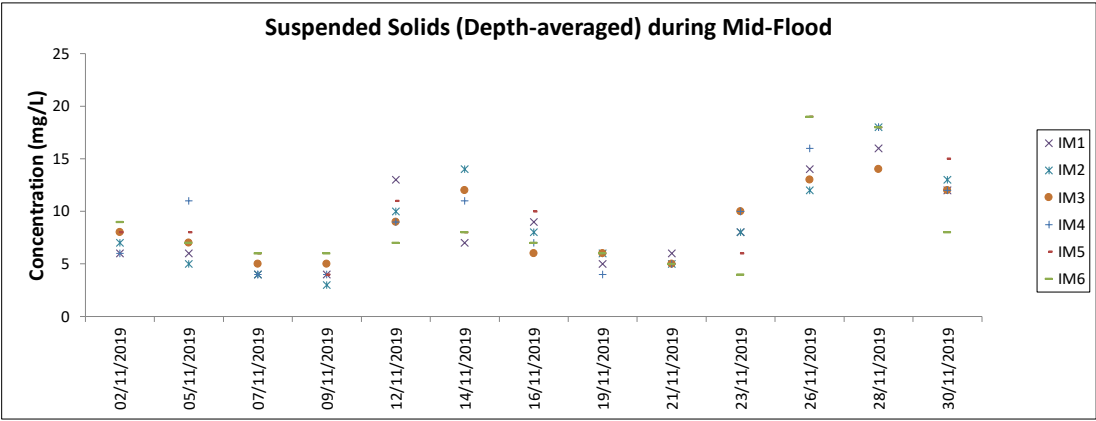
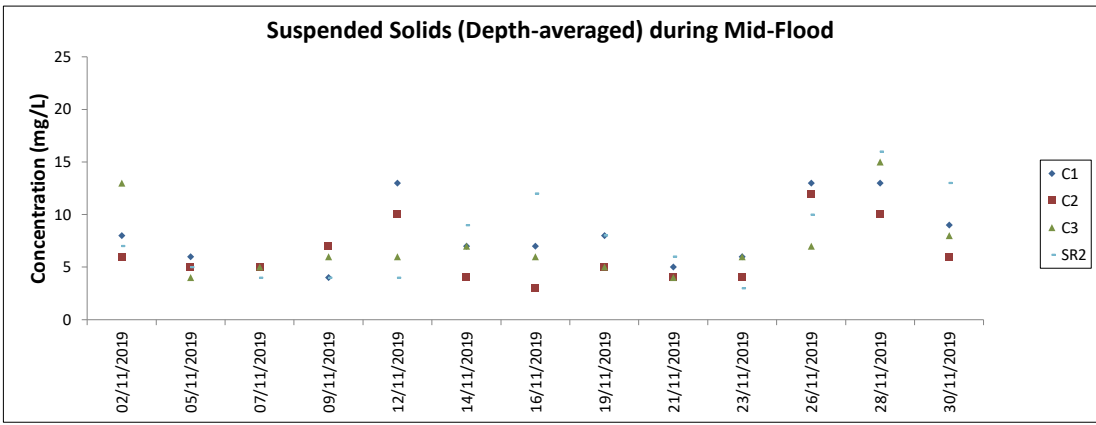
Note: The Action and Limit Level of turbidity can be referred to Table 4.2 of the monthly EM&A report.



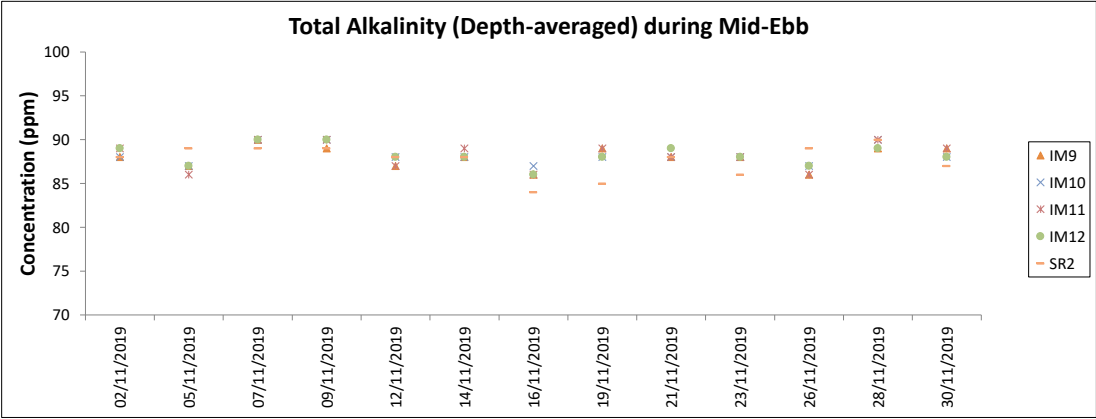
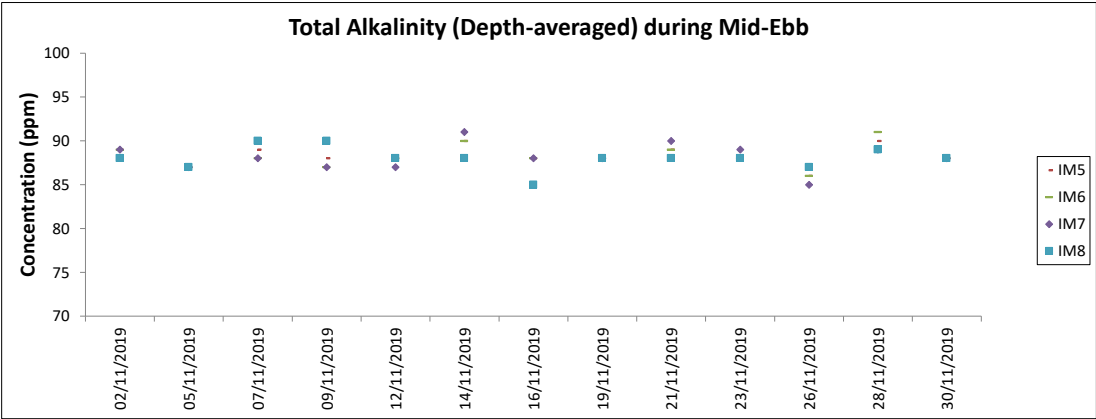
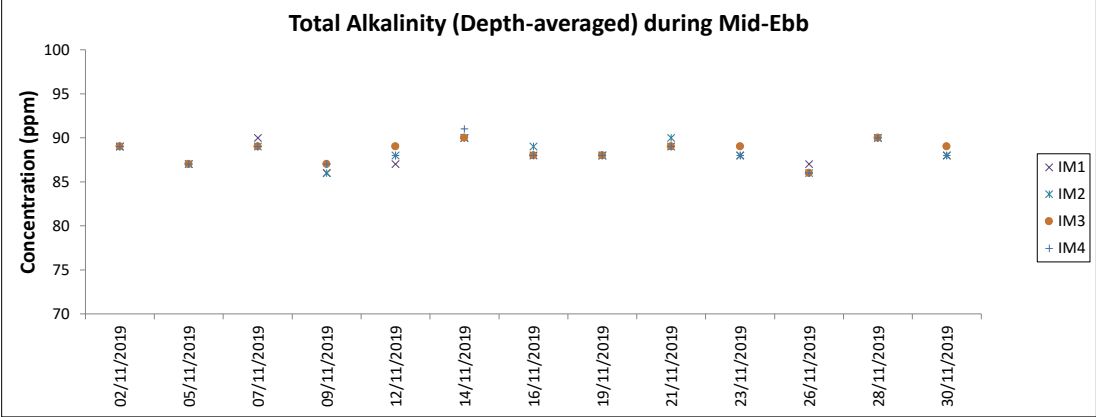
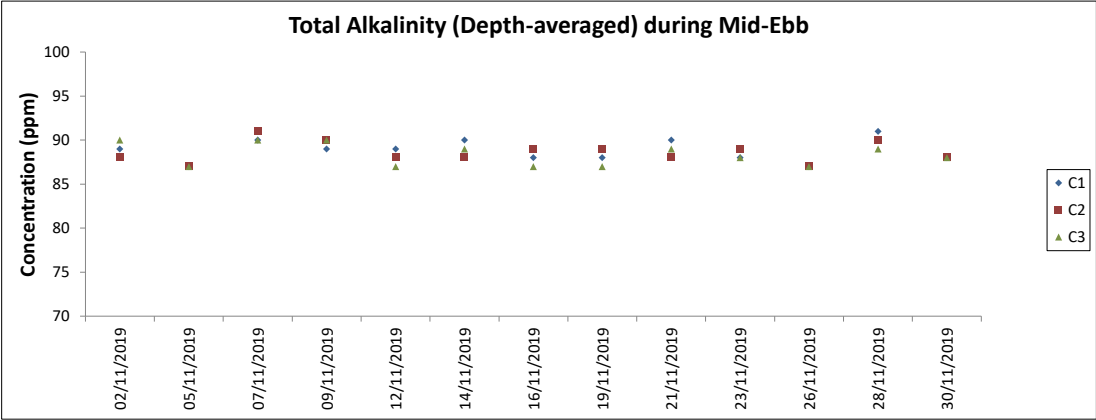
Note: The Action and Limit Level of turbidity can be referred to Table 4.2 of the monthly EM&A report.



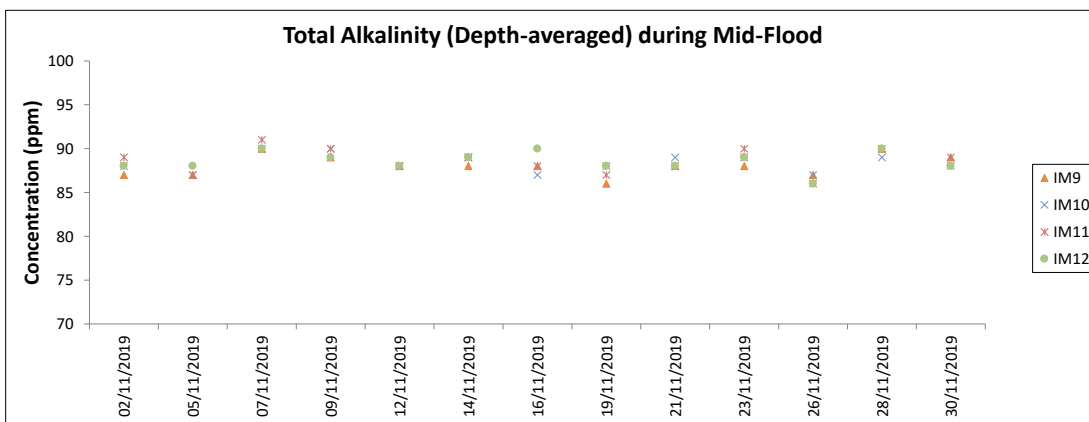
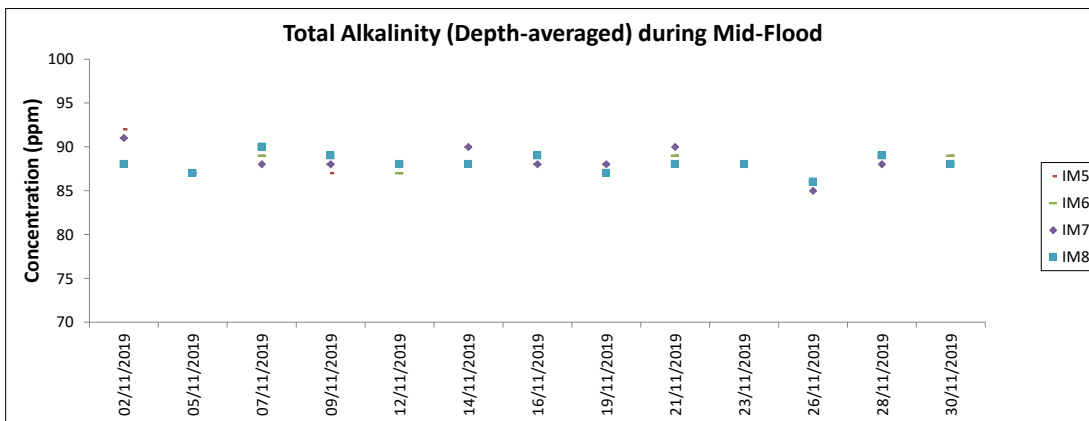
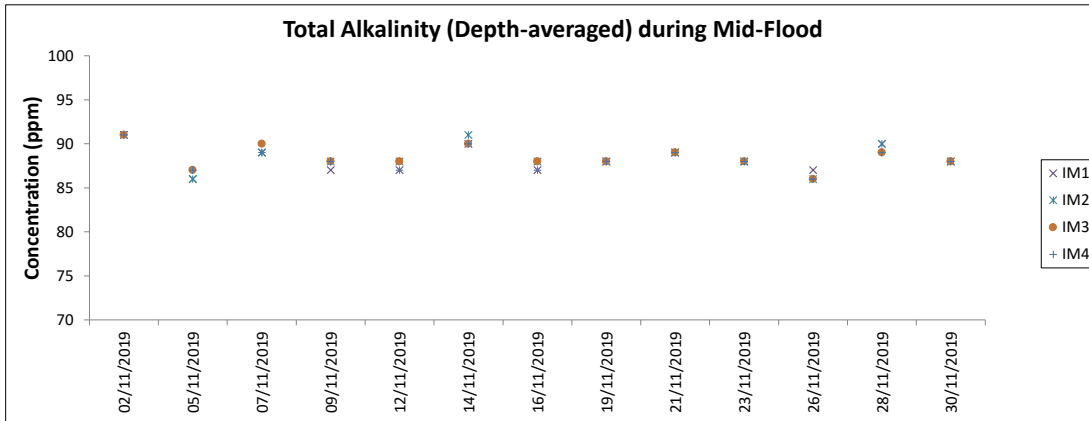
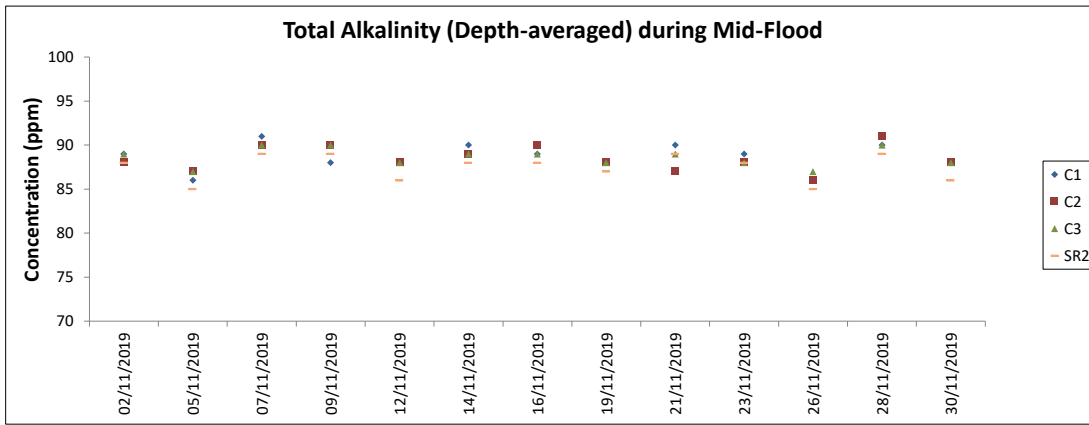
Note: The Action and Limit Level of suspended solids can be referred to Table 4.2 of the monthly EM&A report.



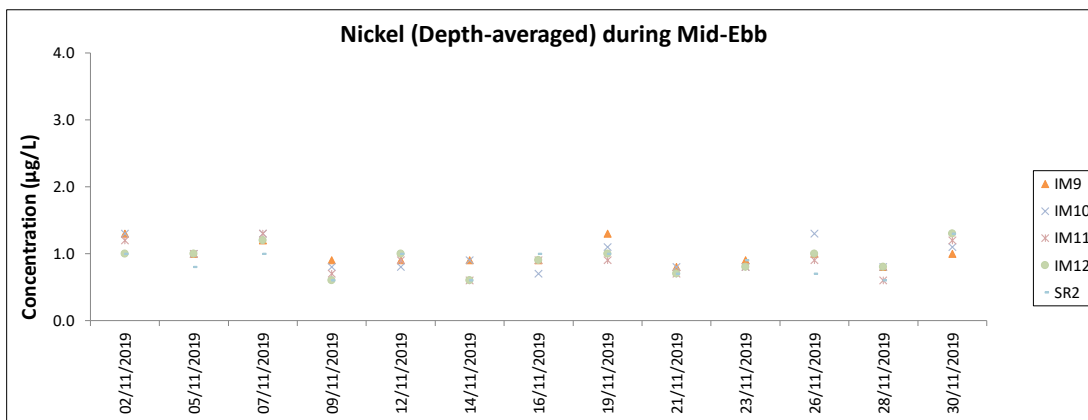
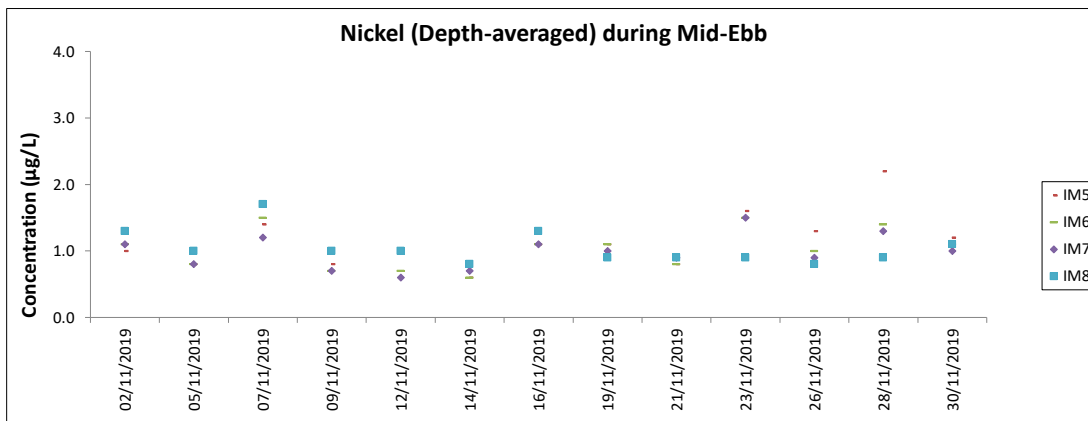
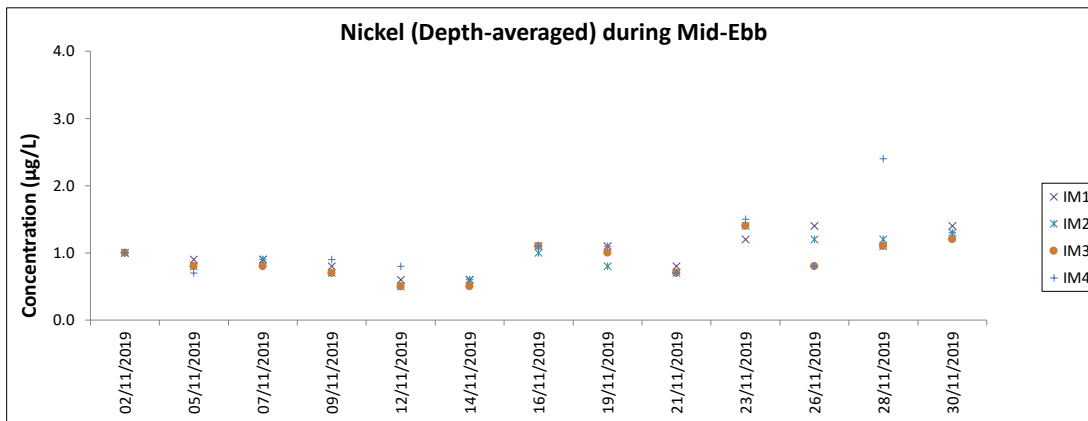
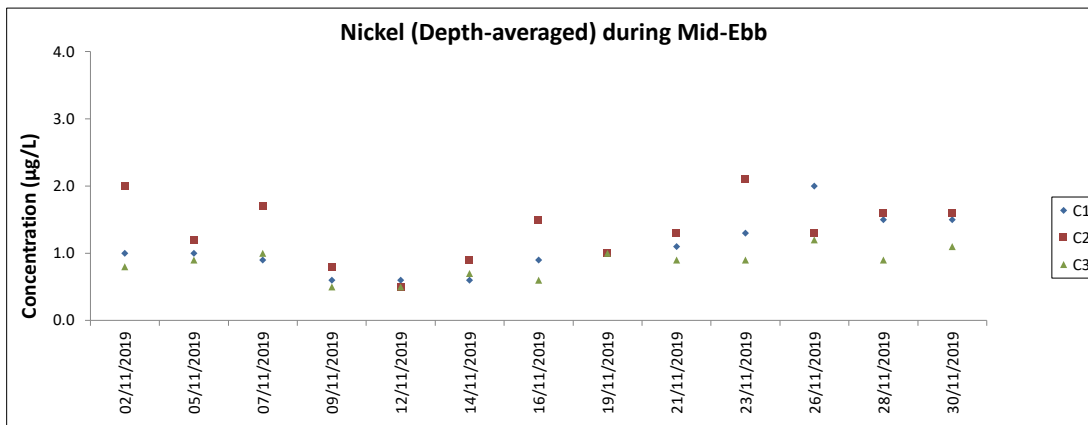
Note: The Action and Limit Level of suspended solids can be referred to Table 4.2 of the monthly EM&A report.



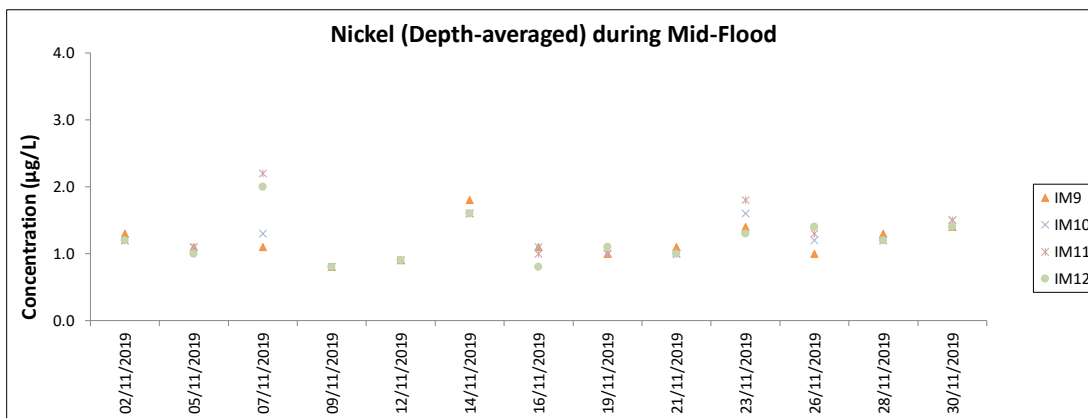
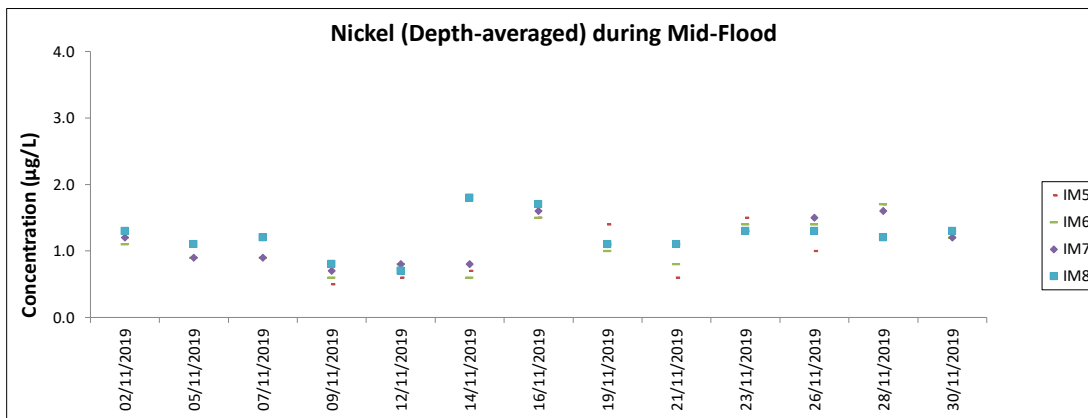
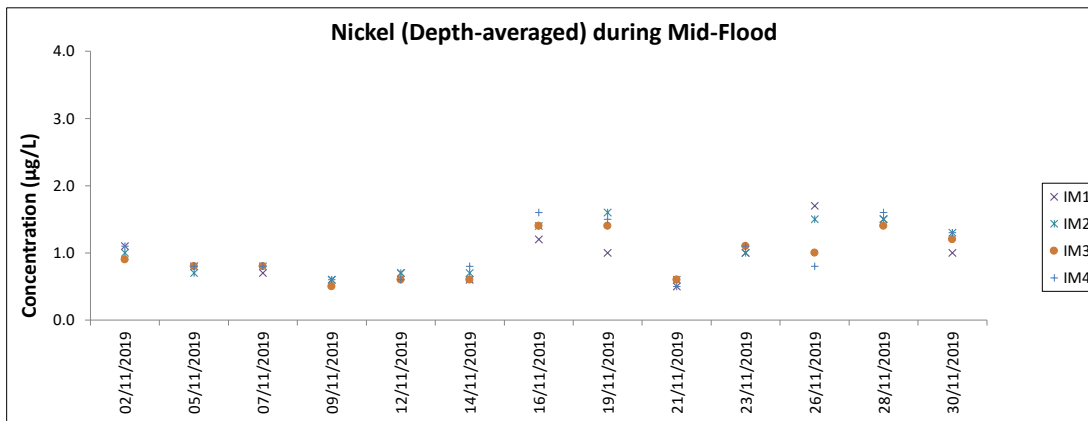
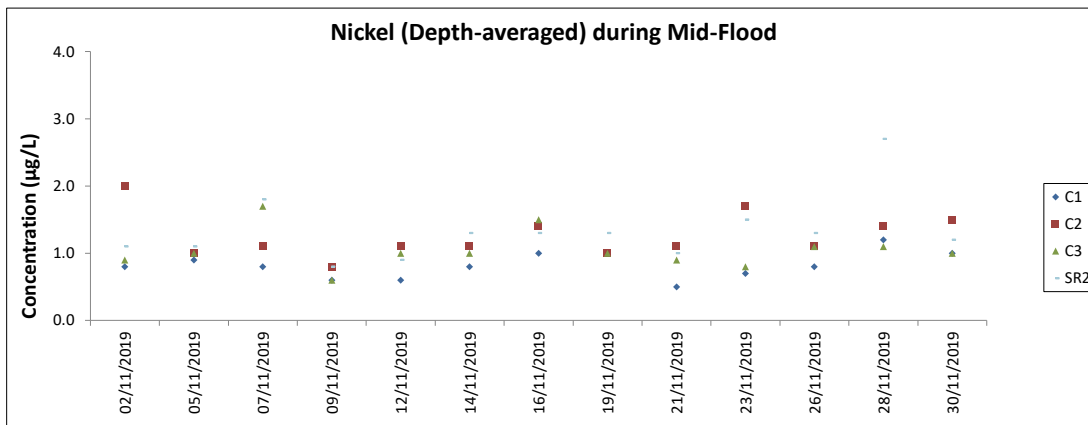
Note: The Action and Limit Level of total alkalinity can be referred to Table 4.2 of the monthly EM&A report.



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.  
All chromium results in the reporting period was below the reporting limit 0.2 µg/L.



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



## **Chinese White Dolphin Monitoring Result**

## CWD Small Vessel Line-transect Survey

## Survey Effort Data

DATE	AREA	BEAU	KM SEARCHED	SEASON	VESSEL	TYPE	P/S
9-Sep-19	SWL	2	41.156	AUTUMN	32166	3RS ET	P
9-Sep-19	SWL	3	10.484	AUTUMN	32166	3RS ET	P
9-Sep-19	SWL	2	13.766	AUTUMN	32166	3RS ET	S
9-Sep-19	SWL	3	2.924	AUTUMN	32166	3RS ET	S
11-Sep-19	NWL	2	48.170	AUTUMN	32166	3RS ET	P
11-Sep-19	NWL	3	15.330	AUTUMN	32166	3RS ET	P
11-Sep-19	NWL	2	11.300	AUTUMN	32166	3RS ET	S
11-Sep-19	NWL	3	1.200	AUTUMN	32166	3RS ET	S
12-Sep-19	AW	2	4.730	AUTUMN	32166	3RS ET	P
12-Sep-19	WL	2	14.440	AUTUMN	32166	3RS ET	P
12-Sep-19	WL	3	4.590	AUTUMN	32166	3RS ET	P
12-Sep-19	WL	2	6.600	AUTUMN	32166	3RS ET	S
12-Sep-19	WL	3	2.360	AUTUMN	32166	3RS ET	S
16-Sep-19	SWL	2	30.230	AUTUMN	32166	3RS ET	P
16-Sep-19	SWL	3	4.000	AUTUMN	32166	3RS ET	P
16-Sep-19	SWL	4	19.940	AUTUMN	32166	3RS ET	P
16-Sep-19	SWL	5	1.340	AUTUMN	32166	3RS ET	P
16-Sep-19	SWL	2	10.170	AUTUMN	32166	3RS ET	S
16-Sep-19	SWL	3	1.300	AUTUMN	32166	3RS ET	S
16-Sep-19	SWL	4	4.020	AUTUMN	32166	3RS ET	S
17-Sep-19	NEL	2	24.290	AUTUMN	32166	3RS ET	P
17-Sep-19	NEL	3	12.650	AUTUMN	32166	3RS ET	P
17-Sep-19	NEL	2	10.660	AUTUMN	32166	3RS ET	S
18-Sep-19	NEL	1	3.200	AUTUMN	32166	3RS ET	P
18-Sep-19	NEL	2	33.030	AUTUMN	32166	3RS ET	P
18-Sep-19	NEL	3	1.410	AUTUMN	32166	3RS ET	P
18-Sep-19	NEL	1	0.800	AUTUMN	32166	3RS ET	S
18-Sep-19	NEL	2	6.150	AUTUMN	32166	3RS ET	S
18-Sep-19	NEL	3	2.810	AUTUMN	32166	3RS ET	S
23-Sep-19	NWL	2	24.000	AUTUMN	32166	3RS ET	P
23-Sep-19	NWL	3	37.600	AUTUMN	32166	3RS ET	P
23-Sep-19	NWL	2	9.400	AUTUMN	32166	3RS ET	S
23-Sep-19	NWL	3	4.500	AUTUMN	32166	3RS ET	S
25-Sep-19	AW	2	4.870	AUTUMN	32166	3RS ET	P
25-Sep-19	WL	2	18.147	AUTUMN	32166	3RS ET	P
25-Sep-19	WL	2	9.262	AUTUMN	32166	3RS ET	S
2-Oct-19	SWL	2	21.630	AUTUMN	32166	3RS ET	P
2-Oct-19	SWL	3	32.292	AUTUMN	32166	3RS ET	P
2-Oct-19	SWL	2	4.878	AUTUMN	32166	3RS ET	S
2-Oct-19	SWL	3	11.810	AUTUMN	32166	3RS ET	S
3-Oct-19	AW	2	3.470	AUTUMN	32166	3RS ET	P
3-Oct-19	WL	2	17.515	AUTUMN	32166	3RS ET	P
3-Oct-19	WL	2	9.401	AUTUMN	32166	3RS ET	S
4-Oct-19	SWL	2	49.551	AUTUMN	32166	3RS ET	P
4-Oct-19	SWL	3	2.100	AUTUMN	32166	3RS ET	P
4-Oct-19	SWL	2	16.128	AUTUMN	32166	3RS ET	S
4-Oct-19	SWL	3	1.100	AUTUMN	32166	3RS ET	S

DATE	AREA	BEAU	KM SEARCHED	SEASON	VESSEL	TYPE	P/S
10-Oct-19	NWL	2	40.510	AUTUMN	32166	3RS ET	P
10-Oct-19	NWL	3	21.930	AUTUMN	32166	3RS ET	P
10-Oct-19	NWL	2	10.970	AUTUMN	32166	3RS ET	S
10-Oct-19	NWL	3	0.900	AUTUMN	32166	3RS ET	S
11-Oct-19	AW	2	4.930	AUTUMN	32166	3RS ET	P
11-Oct-19	WL	2	19.410	AUTUMN	32166	3RS ET	P
11-Oct-19	WL	2	10.760	AUTUMN	32166	3RS ET	S
16-Oct-19	NEL	2	15.140	AUTUMN	32166	3RS ET	P
16-Oct-19	NEL	3	22.770	AUTUMN	32166	3RS ET	P
16-Oct-19	NEL	2	5.040	AUTUMN	32166	3RS ET	S
16-Oct-19	NEL	3	5.350	AUTUMN	32166	3RS ET	S
17-Oct-19	NEL	2	37.340	AUTUMN	32166	3RS ET	P
17-Oct-19	NEL	2	10.060	AUTUMN	32166	3RS ET	S
22-Oct-19	NWL	2	41.400	AUTUMN	32166	3RS ET	P
22-Oct-19	NWL	3	21.600	AUTUMN	32166	3RS ET	P
22-Oct-19	NWL	2	8.700	AUTUMN	32166	3RS ET	S
22-Oct-19	NWL	3	3.300	AUTUMN	32166	3RS ET	S
7-Nov-19	NEL	2	5.760	AUTUMN	32166	3RS ET	P
7-Nov-19	NEL	3	27.790	AUTUMN	32166	3RS ET	P
7-Nov-19	NEL	4	3.700	AUTUMN	32166	3RS ET	P
7-Nov-19	NEL	2	2.990	AUTUMN	32166	3RS ET	S
7-Nov-19	NEL	3	7.460	AUTUMN	32166	3RS ET	S
8-Nov-19	NEL	2	11.100	AUTUMN	32166	3RS ET	P
8-Nov-19	NEL	3	25.840	AUTUMN	32166	3RS ET	P
8-Nov-19	NEL	2	6.500	AUTUMN	32166	3RS ET	S
8-Nov-19	NEL	3	4.160	AUTUMN	32166	3RS ET	S
11-Nov-19	NWL	2	56.549	AUTUMN	32166	3RS ET	P
11-Nov-19	NWL	3	2.200	AUTUMN	32166	3RS ET	P
11-Nov-19	NWL	4	2.900	AUTUMN	32166	3RS ET	P
11-Nov-19	NWL	2	11.051	AUTUMN	32166	3RS ET	S
11-Nov-19	NWL	4	0.900	AUTUMN	32166	3RS ET	S
12-Nov-19	AW	3	4.760	AUTUMN	32166	3RS ET	P
12-Nov-19	WL	2	3.570	AUTUMN	32166	3RS ET	P
12-Nov-19	WL	3	14.600	AUTUMN	32166	3RS ET	P
12-Nov-19	WL	4	2.600	AUTUMN	32166	3RS ET	P
12-Nov-19	WL	2	2.990	AUTUMN	32166	3RS ET	S
12-Nov-19	WL	3	5.730	AUTUMN	32166	3RS ET	S
12-Nov-19	WL	4	1.300	AUTUMN	32166	3RS ET	S
13-Nov-19	NWL	2	57.200	AUTUMN	32166	3RS ET	P
13-Nov-19	NWL	3	6.000	AUTUMN	32166	3RS ET	P
13-Nov-19	NWL	2	11.800	AUTUMN	32166	3RS ET	S
21-Nov-19	SWL	2	5.700	AUTUMN	32166	3RS ET	P
21-Nov-19	SWL	3	48.558	AUTUMN	32166	3RS ET	P
21-Nov-19	SWL	2	1.300	AUTUMN	32166	3RS ET	S
21-Nov-19	SWL	3	14.822	AUTUMN	32166	3RS ET	S
22-Nov-19	AW	1	2.900	AUTUMN	32166	3RS ET	P
22-Nov-19	AW	2	2.070	AUTUMN	32166	3RS ET	P
22-Nov-19	WL	2	6.843	AUTUMN	32166	3RS ET	P
22-Nov-19	WL	3	12.828	AUTUMN	32166	3RS ET	P

DATE	AREA	BEAU	KM SEARCHED	SEASON	VESSEL	TYPE	P/S
22-Nov-19	WL	2	1.987	AUTUMN	32166	3RS ET	S
22-Nov-19	WL	3	7.842	AUTUMN	32166	3RS ET	S
29-Nov-19	SWL	2	22.710	AUTUMN	32166	3RS ET	P
29-Nov-19	SWL	3	28.090	AUTUMN	32166	3RS ET	P
29-Nov-19	SWL	4	3.600	AUTUMN	32166	3RS ET	P
29-Nov-19	SWL	2	9.890	AUTUMN	32166	3RS ET	S
29-Nov-19	SWL	3	6.210	AUTUMN	32166	3RS ET	S

Notes: CWD monitoring survey data of the two preceding survey months (i.e. September and October 2019) 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
9-Sep-19	1	1029	CWD	1	SWL	2	173	ON	3RS ET	22.2110	113.9357	AUTUMN	NONE	P
9-Sep-19	2	1146	CWD	1	SWL	2	426	ON	3RS ET	22.2020	113.9177	AUTUMN	NONE	P
9-Sep-19	3	1240	FP	7	SWL	2	2	ON	3RS ET	22.1551	113.9078	AUTUMN	NONE	P
9-Sep-19	4	1312	CWD	1	SWL	2	41	ON	3RS ET	22.2041	113.9078	AUTUMN	NONE	P
9-Sep-19	5	1332	CWD	2	SWL	2	851	ON	3RS ET	22.1974	113.8974	AUTUMN	NONE	P
9-Sep-19	6	1351	CWD	7	SWL	2	1298	ON	3RS ET	22.1819	113.8970	AUTUMN	NONE	P
12-Sep-19	1	1035	CWD	4	WL	2	253	ON	3RS ET	22.2648	113.8579	AUTUMN	NONE	S
12-Sep-19	2	1057	CWD	8	WL	2	687	ON	3RS ET	22.2569	113.8366	AUTUMN	NONE	S
12-Sep-19	3	1137	CWD	9	WL	2	656	ON	3RS ET	22.2315	113.8305	AUTUMN	NONE	P
12-Sep-19	4	1208	CWD	2	WL	2	163	ON	3RS ET	22.2240	113.8372	AUTUMN	NONE	S
12-Sep-19	5	1240	CWD	3	WL	2	92	ON	3RS ET	22.2139	113.8239	AUTUMN	NONE	P
16-Sep-19	1	1422	FP	1	SWL	5	14	ON	3RS ET	22.1717	113.9268	AUTUMN	NONE	P
25-Sep-19	1	1019	CWD	1	WL	2	167	ON	3RS ET	22.2785	113.8611	AUTUMN	NONE	P
25-Sep-19	2	1037	CWD	6	WL	2	698	ON	3RS ET	22.2776	113.8569	AUTUMN	NONE	P
25-Sep-19	3	1110	CWD	1	WL	2	163	ON	3RS ET	22.2601	113.8477	AUTUMN	NONE	P
25-Sep-19	4	1129	CWD	1	WL	2	2	ON	3RS ET	22.2516	113.8334	AUTUMN	NONE	S
25-Sep-19	5	1207	CWD	2	WL	2	353	ON	3RS ET	22.2315	113.8387	AUTUMN	NONE	P
25-Sep-19	6	1234	CWD	1	WL	2	486	ON	3RS ET	22.2134	113.8238	AUTUMN	NONE	P
25-Sep-19	7	1259	CWD	2	WL	2	24	ON	3RS ET	22.2051	113.8319	AUTUMN	NONE	P
25-Sep-19	8	1320	CWD	6	WL	2	166	ON	3RS ET	22.1962	113.8356	AUTUMN	NONE	P
25-Sep-19	9	1329	CWD	17	WL	2	390	ON	3RS ET	22.1951	113.8424	AUTUMN	NONE	S
2-Oct-19	1	1101	FP	2	SWL	3	1	ON	3RS ET	22.1476	113.9274	AUTUMN	NONE	P
2-Oct-19	2	1114	FP	1	SWL	3	25	ON	3RS ET	22.1706	113.9277	AUTUMN	NONE	P
2-Oct-19	3	1131	CWD	1	SWL	2	36	ON	3RS ET	22.2055	113.9269	AUTUMN	NONE	P
3-Oct-19	1	0937	CWD	7	AW	2	165	ON	3RS ET	22.2983	113.8853	AUTUMN	NONE	P
3-Oct-19	2	1026	CWD	4	WL	2	485	ON	3RS ET	22.2924	113.8612	AUTUMN	NONE	P
3-Oct-19	3	1110	CWD	2	WL	2	155	ON	3RS ET	22.2605	113.8479	AUTUMN	NONE	P
3-Oct-19	4	1122	CWD	1	WL	2	127	ON	3RS ET	22.2603	113.8411	AUTUMN	NONE	P
3-Oct-19	5	1146	CWD	3	WL	2	181	ON	3RS ET	22.2416	113.8434	AUTUMN	NONE	P
3-Oct-19	6	1157	CWD	4	WL	2	207	ON	3RS ET	22.2416	113.8344	AUTUMN	NONE	P
3-Oct-19	7	1220	CWD	7	WL	2	382	ON	3RS ET	22.2282	113.8378	AUTUMN	NONE	S
3-Oct-19	8	1308	CWD	14	WL	2	265	ON	3RS ET	22.1960	113.8365	AUTUMN	NONE	P

DATE	STG #	TIME	CWD/FP	GP SZ	AREA	BEAU	PSD	EFFORT	TYPE	DEC LAT	DEC LON	SEASON	BOAT ASSOC.	P/S
4-Oct-19	1	1103	FP	16	SWL	2	112	ON	3RS ET	22.1428	113.9283	AUTUMN	NONE	S
4-Oct-19	2	1154	FP	2	SWL	2	114	ON	3RS ET	22.1899	113.9181	AUTUMN	NONE	P
4-Oct-19	3	1233	FP	3	SWL	2	65	ON	3RS ET	22.1542	113.9067	AUTUMN	NONE	S
4-Oct-19	4	1242	FP	2	SWL	2	19	ON	3RS ET	22.1568	113.8996	AUTUMN	NONE	S
4-Oct-19	5	1321	CWD	1	SWL	2	296	ON	3RS ET	22.2063	113.8972	AUTUMN	NONE	P
4-Oct-19	6	1356	FP	2	SWL	2	270	ON	3RS ET	22.1486	113.8921	AUTUMN	NONE	S
4-Oct-19	7	1411	FP	1	SWL	2	223	ON	3RS ET	22.1727	113.8882	AUTUMN	NONE	P
10-Oct-19	1	1047	CWD	2	NWL	3	16	ON	3RS ET	22.2709	113.8702	AUTUMN	NONE	P
10-Oct-19	2	1107	CWD	1	NWL	2	100	ON	3RS ET	22.2970	113.8779	AUTUMN	NONE	P
10-Oct-19	3	1205	CWD	4	NWL	2	112	ON	3RS ET	22.3769	113.8775	AUTUMN	NONE	P
11-Oct-19	1	1050	CWD	2	WL	2	214	ON	3RS ET	22.2503	113.8411	AUTUMN	NONE	P
11-Oct-19	2	1114	CWD	1	WL	2	26	ON	3RS ET	22.2414	113.8408	AUTUMN	NONE	P
11-Nov-19	1	1051	CWD	3	NWL	2	142	ON	3RS ET	22.2844	113.8702	AUTUMN	NONE	P
11-Nov-19	2	1155	CWD	1	NWL	2	112	ON	3RS ET	22.3605	113.8777	AUTUMN	NONE	P
11-Nov-19	3	1339	CWD	2	NWL	2	55	ON	3RS ET	22.3884	113.8980	AUTUMN	NONE	P
12-Nov-19	1	1039	CWD	3	WL	3	20	ON	3RS ET	22.2617	113.8548	AUTUMN	NONE	S
21-Nov-19	1	1113	FP	1	SWL	3	55	ON	3RS ET	22.1514	113.9361	AUTUMN	NONE	P
21-Nov-19	2	1151	CWD	1	SWL	3	23	ON	3RS ET	22.2056	113.9194	AUTUMN	NONE	S
21-Nov-19	3	1223	FP	1	SWL	3	151	ON	3RS ET	22.1518	113.9175	AUTUMN	NONE	P
21-Nov-19	4	1503	CWD	4	SWL	3	50	ON	3RS ET	22.1965	113.8686	AUTUMN	NONE	P
22-Nov-19	1	1020	CWD	1	WL	2	39	ON	3RS ET	22.2694	113.8571	AUTUMN	NONE	P
22-Nov-19	2	1100	CWD	4	WL	3	484	ON	3RS ET	22.2498	113.8460	AUTUMN	NONE	P
22-Nov-19	3	1127	CWD	1	WL	3	988	ON	3RS ET	22.2446	113.8493	AUTUMN	NONE	S
22-Nov-19	4	1145	CWD	3	WL	3	175	ON	3RS ET	22.2377	113.8275	AUTUMN	NONE	S
22-Nov-19	5	1216	CWD	1	WL	3	112	ON	3RS ET	22.2258	113.8375	AUTUMN	NONE	S
22-Nov-19	6	1329	CWD	2	SWL	2	N/A	OFF	3RS ET	22.1948	113.8524	AUTUMN	NONE	N/A
29-Nov-19	1	1321	FP	3	SWL	3	294	ON	3RS ET	22.1638	113.8972	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 (i.e. September 2019 and October 2019) 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 November 2019 encounter rates STG and ANI in the whole survey area (NEL, NWL, AW, WL, SWL):

A total of 439.800 km of survey effort was collected under Beaufort Sea State 3 or below with favourable visibility; total no. of 11 on-effort sightings and total number of 24 dolphins from on-effort sightings were collected under such condition. Calculation of the encounter rates in November 2019 are shown as below:

Encounter Rate by Number of Dolphin Sightings (STG) in November 2019

$$STG = \frac{11}{439.800} \times 100 = 2.50$$

Encounter Rate by Number of Dolphins (ANI) in November 2019

$$ANI = \frac{24}{439.800} \times 100 = 5.46$$

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

A total of 1315.314 km of survey effort was collected under Beaufort Sea State 3 or below with favourable visibility; total no. of 45 on-effort sightings and total number of 153 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)








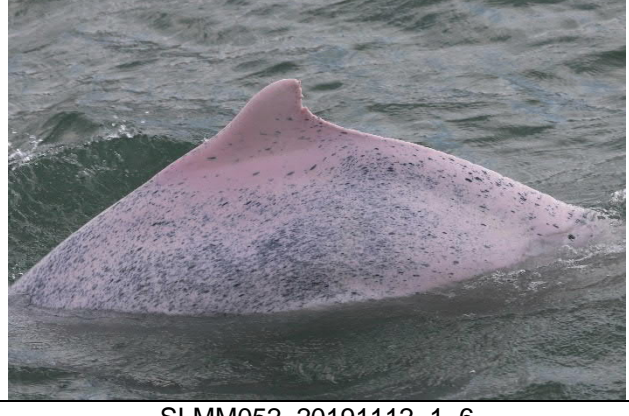
$$STG = \frac{45}{1315.314} \times 100 = 3.42$$

Running Quarterly Encounter Rate by Number of Dolphins (ANI)

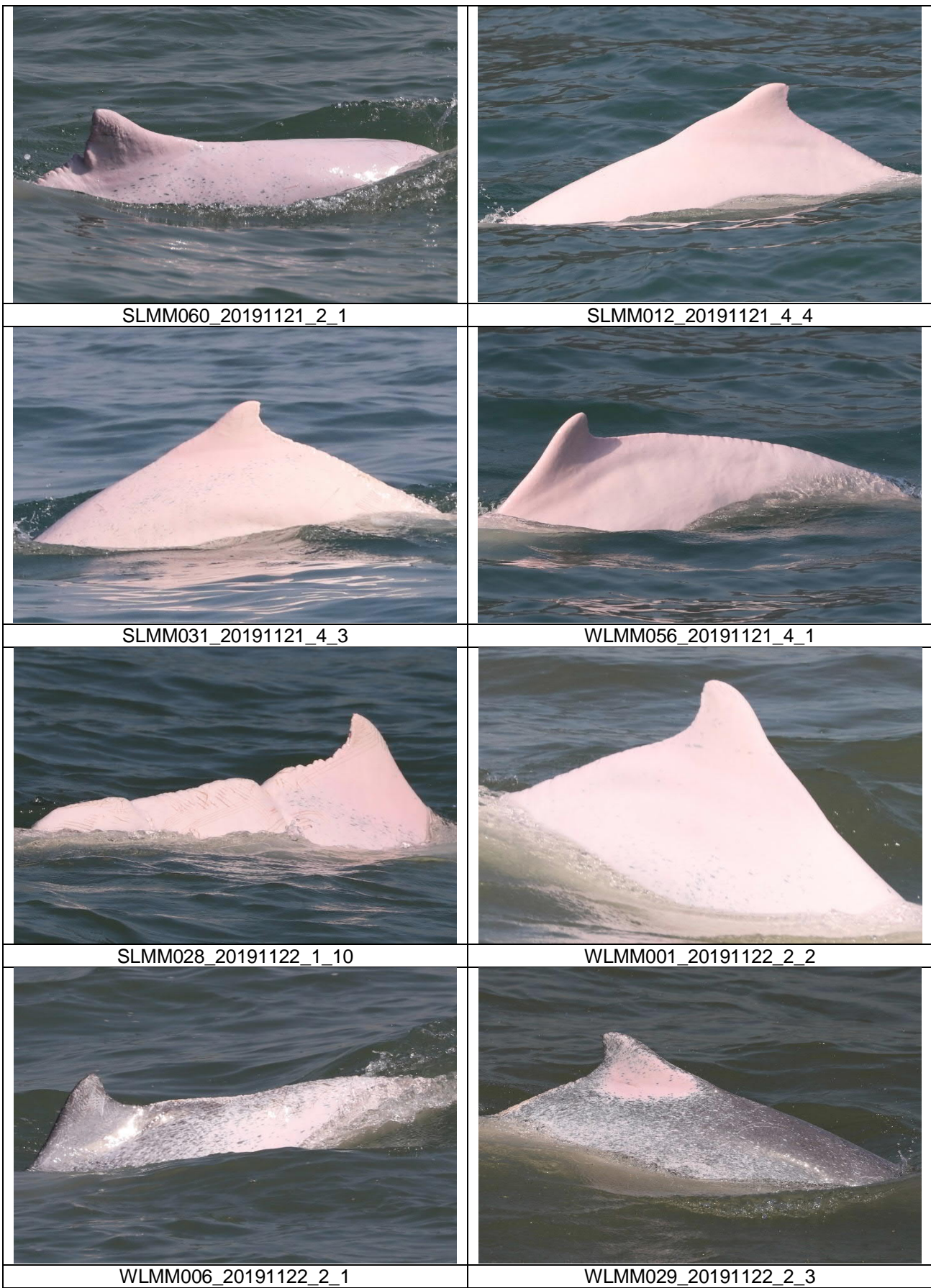
$$ANI = \frac{153}{1315.314} \times 100 = 11.63$$






CWD Small Vessel Line-transect Survey

Photo Identification

	
NLMM019_20191111_1_1	NLMM020_20191111_1_11
	
SLMM011_20191111_1_6	NLMM004_20191111_3_3
	
NLMM013_20191111_3_7	SLMM003_20191112_1_3
	
SLMM037_20191112_1_12	SLMM052_20191112_1_6





 A photograph of a shark's dorsal fin cutting through the water, viewed from a side-on perspective. The fin is light-colored and has a distinct, sharp peak.	 A photograph of a shark's dorsal fin, viewed from a slightly elevated angle. The fin is dark grey with a lighter, pinkish-red patch near the peak.
<p>WLMM063_20191122_2_2</p>	<p>NLMM019_20191122_4_4</p>
 A photograph of a shark's dorsal fin, viewed from a slightly elevated angle. The fin is dark grey with a lighter, pinkish-red patch near the peak.	 A photograph of a shark's dorsal fin, viewed from a side-on perspective. The fin is light-colored and has a distinct, sharp peak.
<p>SLMM053_20191122_4_2</p>	<p>WLMM008_20191122_5_2</p>
 A photograph of a shark's dorsal fin, viewed from a side-on perspective. The fin is light-colored and has a distinct, sharp peak.	
<p>SLMM049_20191122_6_5</p>	

**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>
12/Nov/19	Lung Kwu Chau	10:08	16:08	6:00	2-3	2-3	2	2-5
21/Nov/19	Lung Kwu Chau	8:56	14:56	6:00	3	3	0	-
28/Nov/19	Sha Chau	8:55	14:55	6:00	2-3	2	0	-

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