

Appendix C. Monitoring Results

Air Quality Monitoring Results

1-hour TSP Results

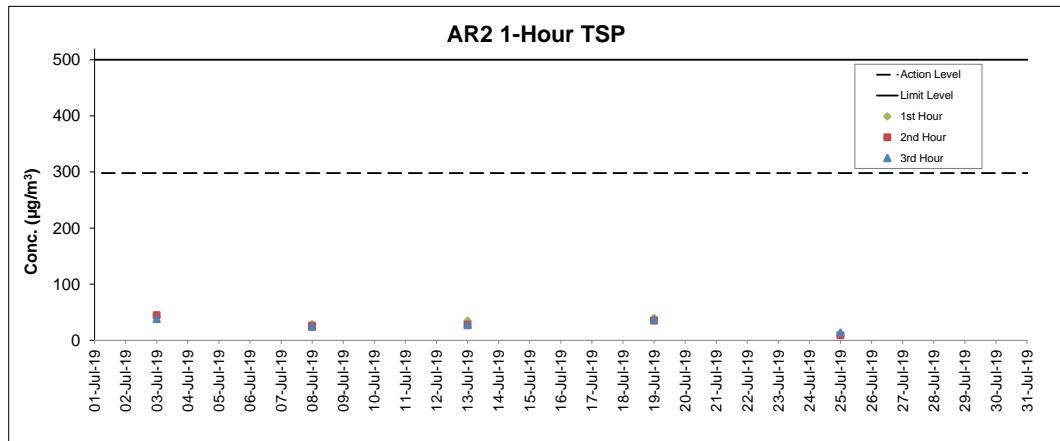
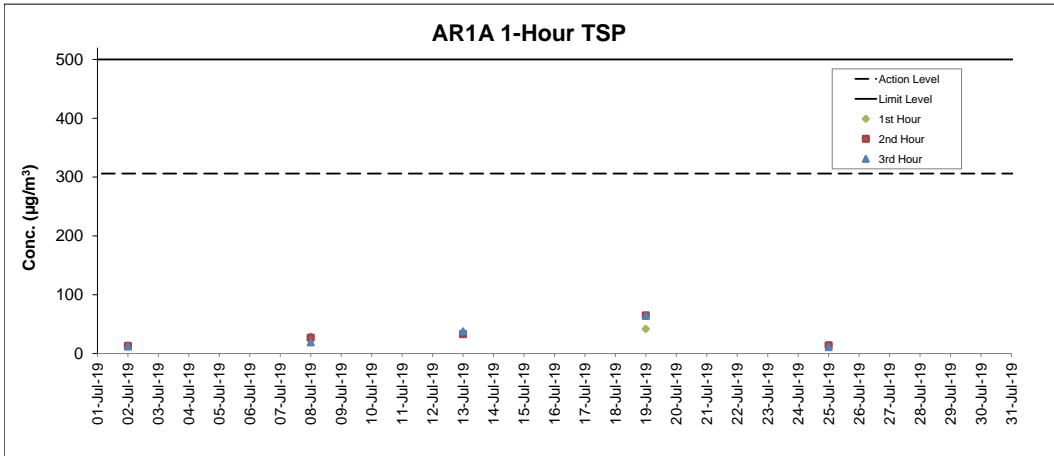
Station: AR1A- Man Tung Road Park

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 ($\mu\text{g}/\text{m}^3$)
02-Jul-19	9:04	Sunny	6.1	69	14	306	500
02-Jul-19	14:11	Cloudy	7.8	103	13	306	500
02-Jul-19	15:11	Cloudy	7.4	114	12	306	500
08-Jul-19	13:59	Sunny	7.3	201	29	306	500
08-Jul-19	14:59	Sunny	6.7	200	27	306	500
08-Jul-19	15:59	Sunny	7.2	189	19	306	500
13-Jul-19	14:30	Fine	6.4	205	33	306	500
13-Jul-19	15:30	Fine	7.3	199	33	306	500
13-Jul-19	16:30	Fine	7.2	201	38	306	500
19-Jul-19	14:10	Cloudy	10.8	258	42	306	500
19-Jul-19	15:10	Cloudy	9.7	216	65	306	500
19-Jul-19	16:10	Cloudy	16.6	226	64	306	500
25-Jul-19	9:05	Sunny	3.5	306	15	306	500
25-Jul-19	10:05	Sunny	4.7	258	14	306	500
25-Jul-19	11:05	Sunny	4.7	219	11	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 ($\mu\text{g}/\text{m}^3$)
03-Jul-19	9:36	Cloudy	3.8	84	41	298	500
03-Jul-19	10:36	Cloudy	7.2	98	45	298	500
03-Jul-19	11:36	Cloudy	5.7	84	38	298	500
08-Jul-19	9:39	Sunny	6.1	218	29	298	500
08-Jul-19	10:39	Sunny	5.8	215	26	298	500
08-Jul-19	11:39	Sunny	7.2	185	24	298	500
13-Jul-19	9:47	Fine	6.1	194	35	298	500
13-Jul-19	10:47	Fine	7.5	192	28	298	500
13-Jul-19	11:47	Fine	6.4	199	27	298	500
19-Jul-19	9:48	Cloudy	3.1	251	40	298	500
19-Jul-19	10:48	Cloudy	5.1	236	35	298	500
19-Jul-19	11:48	Cloudy	4.3	268	37	298	500
25-Jul-19	13:53	Sunny	7.7	233	10	298	500
25-Jul-19	14:53	Sunny	7.3	237	9	298	500
25-Jul-19	15:53	Sunny	6.9	221	14	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.
4. The air monitoring at AR1A and AR2 were rescheduled from 31 July 2019 to 2 August 2019 due to Strong Wind Signal No.3.

Noise Monitoring Results

Noise Measurement Results

Station: NM1A- Man Tung Road Park

Date	Weather	Time	Measured L ₁₀ dB(A)	Measured L ₅₀ dB(A)	L _{eq(30mins)} dB(A)
02-Jul-19	Cloudy	13:35	74.3	57.6	73
02-Jul-19	Cloudy	13:40	75.0	62.5	
02-Jul-19	Cloudy	13:45	73.4	66.8	
02-Jul-19	Cloudy	13:50	72.1	56.9	
02-Jul-19	Cloudy	13:55	71.4	56.0	
02-Jul-19	Cloudy	14:00	73.3	54.6	
08-Jul-19	Sunny	15:05	69.2	54.1	71
08-Jul-19	Sunny	15:10	72.8	54.8	
08-Jul-19	Sunny	15:15	71.7	53.2	
08-Jul-19	Sunny	15:20	72.5	53.8	
08-Jul-19	Sunny	15:25	71.0	52.8	
08-Jul-19	Sunny	15:30	71.4	53.8	
19-Jul-19	Cloudy	15:23	71.8	52.8	71
19-Jul-19	Cloudy	15:28	71.5	53.5	
19-Jul-19	Cloudy	15:33	70.8	52.8	
19-Jul-19	Cloudy	15:38	71.9	54.4	
19-Jul-19	Cloudy	15:43	70.6	53.8	
19-Jul-19	Cloudy	15:48	71.7	54.8	
25-Jul-19	Sunny	9:16	73.0	54.5	71
25-Jul-19	Sunny	9:21	72.4	54.5	
25-Jul-19	Sunny	9:26	72.7	54.7	
25-Jul-19	Sunny	9:31	71.8	54.2	
25-Jul-19	Sunny	9:36	72.5	54.6	
25-Jul-19	Sunny	9:41	73.1	54.6	

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 ₁₀ dB(A)	Measured L ₅₀ dB(A)	L _{eq(30mins)} dB(A)
02-Jul-19	Cloudy	14:35	66.5	59.6	60
02-Jul-19	Cloudy	14:40	67.4	60.5	
02-Jul-19	Cloudy	14:45	67.0	60.5	
02-Jul-19	Cloudy	14:50	66.3	58.8	
02-Jul-19	Cloudy	14:55	64.5	59.3	
02-Jul-19	Cloudy	15:00	66.3	59.2	
08-Jul-19	Sunny	17:01	70.0	59.2	60
08-Jul-19	Sunny	17:06	68.8	60.7	
08-Jul-19	Sunny	17:11	69.6	60.0	
08-Jul-19	Sunny	17:16	66.4	59.3	
08-Jul-19	Sunny	17:21	63.1	58.5	
08-Jul-19	Sunny	17:26	63.1	58.2	
19-Jul-19	Cloudy	14:26	62.2	59.0	63
19-Jul-19	Cloudy	14:31	62.4	58.7	
19-Jul-19	Cloudy	14:36	61.5	58.0	
19-Jul-19	Cloudy	14:41	62.4	58.7	
19-Jul-19	Cloudy	14:46	61.5	58.0	
19-Jul-19	Cloudy	14:51	61.8	58.6	
25-Jul-19	Sunny	10:32	61.4	57.2	63
25-Jul-19	Sunny	10:37	61.7	57.4	
25-Jul-19	Sunny	10:42	62.5	58.0	
25-Jul-19	Sunny	10:47	60.4	58.1	
25-Jul-19	Sunny	10:52	61.0	57.9	
25-Jul-19	Sunny	10:57	63.5	57.6	

Remarks:

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

Noise Measurement Results

Station: NM5- Village House, Tin Sum

Date	Weather	Time	Measured L ₁₀ dB(A)	Measured L ₅₀ dB(A)	L _{eq(30mins)} dB(A)
03-Jul-19	Cloudy	10:07	57.9	48.1	59
03-Jul-19	Cloudy	10:12	63.7	47.3	
03-Jul-19	Cloudy	10:17	56.5	47.6	
03-Jul-19	Cloudy	10:22	58.0	47.4	
03-Jul-19	Cloudy	10:27	58.3	47.4	
03-Jul-19	Cloudy	10:32	56.7	47.5	
08-Jul-19	Sunny	9:43	58.8	55.3	59
08-Jul-19	Sunny	9:48	58.5	54.7	
08-Jul-19	Sunny	9:53	59.0	56.9	
08-Jul-19	Sunny	9:58	57.0	51.9	
08-Jul-19	Sunny	10:03	51.0	50.2	
08-Jul-19	Sunny	10:08	64.8	44.5	
19-Jul-19	Fine	11:38	55.7	48.7	59
19-Jul-19	Fine	11:43	64.5	49.9	
19-Jul-19	Fine	11:48	60.4	48.6	
19-Jul-19	Fine	11:53	55.0	47.8	
19-Jul-19	Fine	11:58	55.6	48.5	
19-Jul-19	Fine	12:03	54.8	48.5	
25-Jul-19	Cloudy	13:53	48.2	42.9	62
25-Jul-19	Cloudy	13:58	48.6	42.6	
25-Jul-19	Cloudy	14:03	61.1	42.6	
25-Jul-19	Cloudy	14:08	49.4	42.4	
25-Jul-19	Cloudy	14:13	55.8	41.7	
25-Jul-19	Cloudy	14:18	50.1	43.1	

Remarks:

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

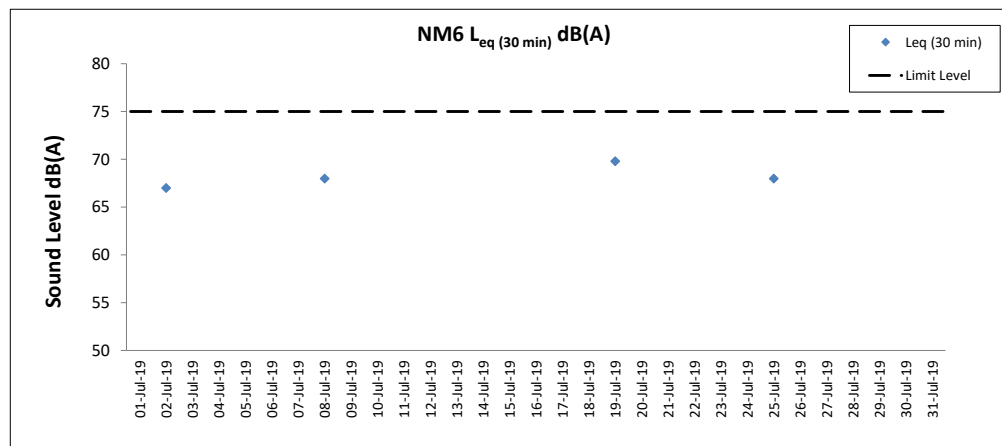
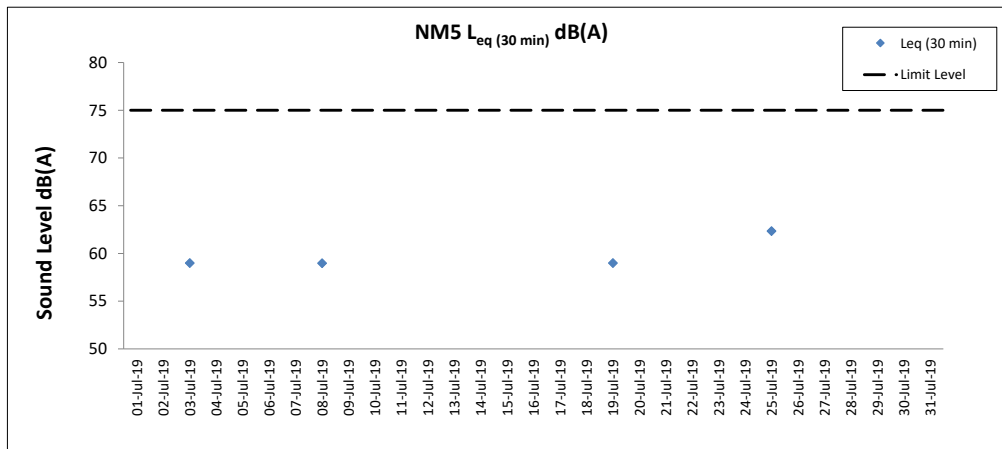
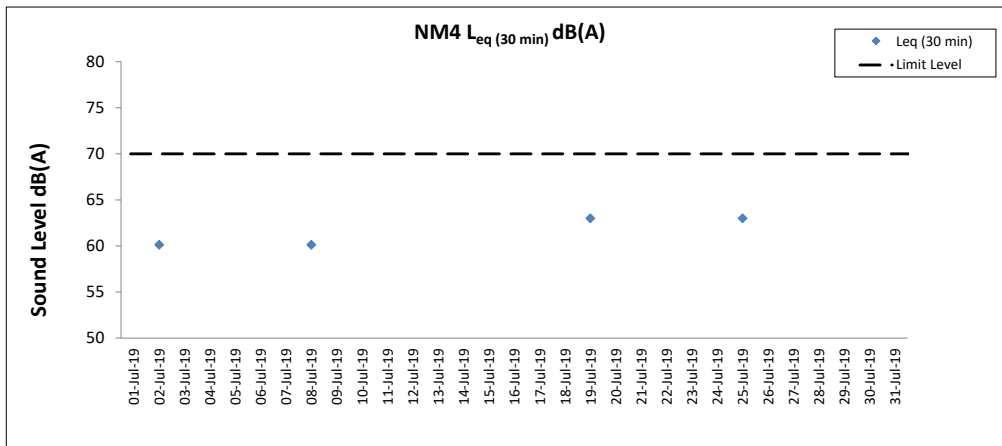
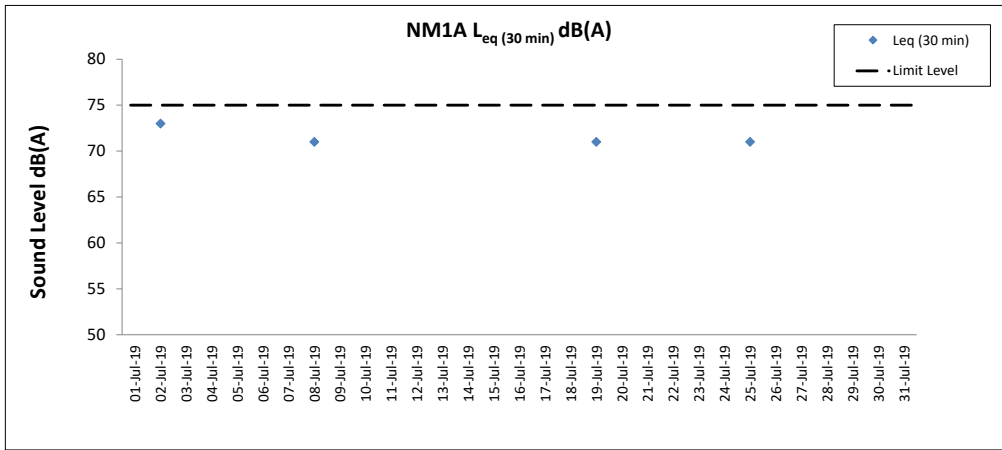
Noise Measurement Results

Station: NM6- House No.1 Sha Lo Wan

Date	Weather	Time	Measured L ₁₀ dB(A)	Measured L ₅₀ dB(A)	L _{eq(30mins)} dB(A)
02-Jul-19	Cloudy	17:41	64.9	50.0	67
02-Jul-19	Cloudy	17:46	66.5	47.9	
02-Jul-19	Cloudy	17:51	65.5	58.7	
02-Jul-19	Cloudy	17:56	67.2	58.5	
02-Jul-19	Cloudy	18:01	70.6	50.8	
02-Jul-19	Cloudy	18:06	68.5	48.8	
08-Jul-19	Sunny	15:44	68.4	52.7	68
08-Jul-19	Sunny	15:49	68.6	55.1	
08-Jul-19	Sunny	15:54	70.4	54.9	
08-Jul-19	Sunny	15:59	70.5	53.9	
08-Jul-19	Sunny	16:04	65.9	51.7	
08-Jul-19	Sunny	16:09	75.5	53.5	
19-Jul-19	Cloudy	9:48	72.2	48.1	70
19-Jul-19	Cloudy	9:53	68.4	46.6	
19-Jul-19	Cloudy	9:58	74.3	48.4	
19-Jul-19	Cloudy	10:03	75.2	49.1	
19-Jul-19	Cloudy	10:08	77.2	49.6	
19-Jul-19	Cloudy	10:13	76.3	50.2	
25-Jul-19	Cloudy	15:26	74.5	57.1	68
25-Jul-19	Cloudy	15:31	67.7	52.7	
25-Jul-19	Cloudy	15:36	73.2	56.3	
25-Jul-19	Cloudy	15:41	73.0	52.2	
25-Jul-19	Cloudy	15:46	71.9	52.8	
25-Jul-19	Cloudy	15:51	68.6	52.9	

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 July 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	Rough	12:09	7.2	Surface	1.0	0.5	228	28.1	28.1	7.9	7.9	19.4	19.4	87.2	87.1	6.1	5.3	3.4	7.1	7	8	83	88	815605	804225	<0.2	1.4	<0.2	1.4	
						1.0	0.6	231	28.1	28.1	7.9	7.9	19.4	19.4	87.0	87.1	6.1	5.3	3.4	7.1	7	8	84	88			<0.2	1.3	<0.2	1.4	
						3.6	0.5	213	27.4	27.4	7.8	7.8	23.9	23.8	62.8	63.1	4.4	4.4	6.5	8	8	88	88	<0.2			1.4	<0.2	1.5		
					3.6	0.5	215	27.3	27.3	7.8	7.8	23.8	23.8	63.3	63.1	4.4	4.4	6.5	8	8	88	88	<0.2	1.4			<0.2	1.4			
					6.2	0.3	206	27.2	27.2	7.7	7.7	25.0	25.0	57.4	57.5	4.0	4.0	11.5	8	8	91	89	<0.2	1.4			<0.2	1.4			
					6.2	0.3	226	27.2	27.2	7.7	7.7	25.0	25.0	57.6	57.5	4.0	4.0	11.5	9	9	91	89	<0.2	1.4			<0.2	1.4			
					1.0	0.2	193	28.9	28.9	8.0	8.0	17.3	17.3	90.1	90.1	6.3	5.7	3.2	7	8	84	87	<0.2	1.3			<0.2	1.3			
					1.0	0.3	210	28.9	28.9	8.0	8.0	17.3	17.3	90.0	90.1	6.3	5.7	3.2	7	8	84	87	<0.2	1.3			<0.2	1.3			
					5.4	0.3	170	28.3	28.3	8.0	8.0	20.0	20.0	73.8	73.7	5.1	5.0	4.6	6	8	88	88	<0.2	1.3			<0.2	1.3			
5.4	0.3	173	28.3	28.3	8.0	8.0	20.0	20.0	73.6	73.7	5.1	5.0	4.7	8	8	89	89	<0.2	1.4	<0.2	1.4										
9.7	0.3	159	27.7	27.7	7.9	7.9	23.7	23.7	59.6	59.7	4.1	4.1	7.1	10	10	89	89	<0.2	1.4	<0.2	1.4										
9.7	0.3	166	27.7	27.7	7.9	7.9	23.7	23.7	59.8	59.7	4.1	4.1	7.2	11	11	89	89	<0.2	1.3	<0.2	1.3										
C3	Cloudy	Moderate	12:53	12.5	Surface	1.0	0.5	98	28.0	28.0	8.1	8.1	23.3	23.4	85.3	85.2	5.9	5.4	4.2	5.2	8	9	86	88	822128	817799	<0.2	1.2	<0.2	1.1	
						1.0	0.6	98	28.0	28.0	8.1	8.1	23.4	23.4	85.1	85.2	5.8	5.4	4.3	8	9	86	88	<0.2			1.1	<0.2	1.1		
						6.3	0.3	86	27.4	27.4	8.0	8.0	25.3	25.3	71.4	71.4	4.9	4.9	4.8	8	9	87	88	<0.2			1.0	<0.2	1.0		
					6.3	0.3	91	27.4	27.4	8.0	8.0	25.3	25.3	71.4	71.4	4.9	4.9	4.7	9	9	88	88	<0.2	1.1			<0.2	1.1			
					11.5	0.2	80	26.9	26.9	8.0	8.0	27.3	27.3	59.6	59.9	4.1	4.1	6.6	10	10	89	89	<0.2	1.0			<0.2	1.0			
					11.5	0.2	80	26.9	26.9	8.0	8.0	27.2	27.3	60.2	59.9	4.1	4.1	6.6	9	9	90	89	<0.2	1.0			<0.2	1.0			
					1.0	0.2	221	27.9	27.9	7.9	7.9	19.7	19.7	87.1	87.0	6.1	6.1	3.5	6	6	84	88	<0.2	1.1			<0.2	1.1			
					1.0	0.2	223	27.9	27.9	7.9	7.9	19.7	19.7	86.9	87.0	6.1	6.1	3.5	5	5	84	88	<0.2	1.1			<0.2	1.1			
					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6			6	-	88	817941	807138
3.3	0.2	201	27.5	27.5	7.8	7.8	22.9	22.9	65.9	66.1	4.6	4.6	5.7	6	6	91	89	<0.2	0.9	<0.2	0.9										
3.3	0.2	220	27.5	27.5	7.8	7.8	22.9	22.9	66.3	66.1	4.6	4.6	5.7	5	5	92	89	<0.2	1.0	<0.2	1.0										
IM2	Cloudy	Moderate	11:34	7.7	Surface	1.0	0.3	216	28.4	28.4	8.0	8.0	18.6	18.6	102.4	102.3	7.2	6.0	3.5	6.5	5	6	83	87	818185	806153	<0.2	1.0	<0.2	1.0	
						1.0	0.3	227	28.4	28.4	8.0	8.0	18.6	18.6	102.2	102.3	7.2	6.0	3.5	6	6	83	87	<0.2			1.1	<0.2	1.1		
						3.9	0.3	199	27.5	27.5	7.8	7.8	22.6	22.6	66.9	66.9	4.7	4.7	5.6	6	6	84	88	<0.2			1.0	<0.2	1.0		
					3.9	0.3	215	27.5	27.5	7.8	7.8	22.6	22.6	66.9	66.9	4.7	4.7	5.8	5	5	87	88	<0.2	1.0			<0.2	1.0			
					6.7	0.3	174	27.3	27.3	7.7	7.7	24.2	24.3	62.0	62.1	4.3	4.3	10.3	6	6	91	89	<0.2	0.9			<0.2	0.9			
					6.7	0.3	178	27.3	27.3	7.7	7.7	24.4	24.3	62.2	62.1	4.3	4.3	10.3	6	6	92	89	<0.2	0.9			<0.2	0.9			
					1.0	0.5	209	28.0	28.0	7.9	7.9	20.4	20.4	90.3	90.2	6.3	6.0	4.1	7	7	83	87	<0.2	0.9			<0.2	0.9			
					1.0	0.5	220	28.0	28.0	7.9	7.9	20.4	20.4	90.0	90.2	6.3	6.0	4.2	6	6	84	87	<0.2	0.9			<0.2	0.9			
					4.1	0.5	193	27.8	27.8	7.9	7.9	21.0	21.0	82.4	82.3	5.8	5.8	4.5	7	7	87	88	<0.2	0.9			<0.2	0.9			
4.1	0.5	207	27.8	27.8	7.9	7.9	21.0	21.0	82.2	82.3	5.7	5.8	4.4	6	6	87	88	<0.2	1.0	<0.2	1.0										
7.1	0.5	187	27.4	27.4	7.7	7.7	23.7	23.7	63.0	63.1	4.4	4.4	12.9	7	7	91	89	<0.2	1.0	<0.2	1.0										
7.1	0.5	187	27.4	27.4	7.7	7.7	23.7	23.7	63.2	63.1	4.4	4.4	13.0	7	7	92	89	<0.2	0.9	<0.2	0.9										
IM4	Cloudy	Moderate	11:20	8.8	Surface	1.0	0.4	196	28.4	28.4	8.0	8.0	18.5	18.5	103.6	103.5	7.3	6.5	2.7	6.6	5	5	83	88	819706	804599	<0.2	1.0	<0.2	1.0	
						1.0	0.5	204	28.4	28.4	8.0	8.0	18.5	18.5	103.4	103.5	7.3	6.5	2.7	4	4	84	88	<0.2			1.1	<0.2	1.1		
						4.4	0.4	178	27.7	27.7	8.0	8.0	21.3	21.4	83.4	82.3	5.8	5.8	7.0	6	6	88	88	<0.2			1.0	<0.2	1.0		
					4.4	0.4	194	27.6	27.6	8.0	8.0	21.4	21.4	81.1	82.3	5.7	5.7	7.0	5	5	88	88	<0.2	1.0			<0.2	1.0			
					7.8	0.4	181	27.2	27.2	7.7	7.7	24.7	24.6	62.8	63.1	4.3	4.4	10.1	5	5	91	89	<0.2	1.0			<0.2	1.0			
					7.8	0.4	188	27.3	27.3	7.7	7.7	24.5	24.6	63.4	63.1	4.3	4.4	10.0	6	6	92	89	<0.2	1.0			<0.2	1.0			
					1.0	0.4	235	28.3	28.3	8.0	8.0	18.9	18.9	99.8	99.6	7.0	6.6	3.0	5	5	83	88	<0.2	0.9			<0.2	0.9			
					1.0	0.4	246	28.3	28.3	8.0	8.0	18.9	18.9	99.4	99.6	7.0	6.6	3.0	5	5	84	88	<0.2	1.0			<0.2	1.0			
					4.1	0.4	221	28.1	28.1	8.0	8.0	20.0	20.0	89.0	88.8	6.2	6.2	2.9	6	6	88	88	<0.2	0.9			<0.2	0.9			
4.1	0.4	234	28.1	28.1	8.0	8.0	20.0	20.0	88.5	88.8	6.2	6.2	2.9	5	5	88	88	<0.2	1.0	<0.2	1.0										
7.2	0.3	230	27.1	27.1	7.7	7.7	25.0	25.0	56.6	56.8	3.9	3.9	8.7	6	6	91	89	<0.2	1.0	<0.2	1.0										
7.2	0.3	244	27.1	27.1	7.7	7.7	25.0	25.0	56.9	56.8	3.9	3.9	8.7	5	5	92	89	<0.2	0.9	<0.2	0.9										
IM6	Rainy	Rough	11:08	7.9	Surface	1.0	0.6	257	28.1	28.1	7.9	7.9	20.3	20.3	92.2	91.9	6.4	5.9	4.0	5.8	6	6	83	88	821083	805847	<0.2	0.8	<0.2	0.8	
						1.0	0.6	262	28.1	28.1	7.9	7.9	20.3	20.3	91.5	91.9	6.4	5.9	4.0	6	6	84	88	<0.2			0.8	<0.2	0.8		
						4.0	0.6	251	27.7	27.7	7.9	7.9	20.8	20.8	77.5	77.1	5.4	4.9	4.9	6	6	88	88	<0.2			0.9	<0.2	0.9		
					4.0	0.6	266	27.6	27.6	7.9	7.9	20.9	20.8	76.7	77.1	5.4	4.9	5.0	6	6	88	88	<0.2	0.8			<0.2	0.8			
					6.9	0.4	232	27.2	27.2	7.7	7.7	24.4	24.4	59.6	59.7	4.1	4.1	8.4	6	6	92	89	<0.2	0.8			<0.2	0.8			
					6.9	0.4	237	27.2	27.2	7.7	7.7	24.5	24.4	59.7	59.7	4.1	4.1	8.4	6	6	92	89	<0.2</								

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

Water Quality Monitoring Results on 02 July 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	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	
IM9	Cloudy	Moderate	11:42	7.3	Surface	1.0	0.1	7	28.4	28.4	8.0	8.0	20.6	20.6	79.2	79.2	5.5	5.1	4.3	7	85	88	88	88	822115	808828	<0.2	0.8	<0.2	0.8					
						1.0	0.1	7	28.4	28.4	8.0	8.0	20.7	20.7	79.2	79.2	5.5	5.1	4.3	7	85	88	88	88	822115	808828	<0.2	0.8	<0.2	0.8					
						3.7	0.2	122	28.0	28.0	7.9	7.9	22.3	22.3	66.0	66.0	4.6	4.6	4.5	9	88	88	88	88	822115	808828	<0.2	0.7	<0.2	0.8					
					Middle	3.7	0.2	130	28.0	28.0	7.9	7.9	22.3	22.3	65.9	65.9	4.6	4.7	4.6	9	88	88	88	88	822115	808828	<0.2	0.8	<0.2	0.8					
						6.3	0.2	133	27.9	27.9	7.9	7.9	22.9	22.9	68.2	68.2	4.7	4.7	4.7	8	89	89	89	89	822115	808828	<0.2	0.9	<0.2	0.8					
						6.3	0.2	141	27.9	27.9	7.9	7.9	22.9	22.9	68.5	68.5	4.7	4.7	4.7	9	89	89	89	89	822115	808828	<0.2	0.8	<0.2	0.8					
					IM10	Cloudy	Moderate	11:48	7.2	Surface	1.0	0.4	95	28.5	28.5	8.1	8.1	20.3	20.3	87.7	87.8	6.1	5.3	3.7	8	86	88	88	88	822402	809801	<0.2	0.9	<0.2	0.9
											1.0	0.4	99	28.4	28.4	8.1	8.1	20.4	20.3	87.8	87.8	6.1	5.3	3.8	8	86	88	88	88	822402	809801	<0.2	0.9	<0.2	0.9
											3.6	0.3	97	27.9	27.9	7.9	7.9	22.7	22.7	63.3	63.4	4.4	4.9	5.0	9	88	88	88	88	822402	809801	<0.2	0.9	<0.2	0.9
Middle	3.6	0.4	101	27.9						27.9	7.9	7.9	22.7	22.7	63.4	63.4	4.4	4.9	4.9	9	88	88	88	88	822402	809801	<0.2	0.9	<0.2	0.9					
	6.2	0.3	112	27.7						27.7	8.0	8.0	23.7	23.7	62.4	62.4	4.3	4.3	7.5	8	90	90	90	90	822402	809801	<0.2	0.9	<0.2	0.9					
	6.2	0.3	121	27.7						27.7	8.0	8.0	23.7	23.7	62.7	62.7	4.3	4.3	7.6	8	90	90	90	90	822402	809801	<0.2	0.9	<0.2	0.8					
IM11	Cloudy	Moderate	12:00	9.4						Surface	1.0	0.8	106	28.6	28.6	8.1	8.1	20.3	20.3	95.7	95.8	6.6	5.4	3.4	9	87	87	88	88	822063	811478	<0.2	0.7	<0.2	0.7
											1.0	0.8	111	28.6	28.6	8.1	8.1	20.3	20.3	95.9	95.9	6.6	5.4	3.3	8	87	88	88	88	822063	811478	<0.2	0.7	<0.2	0.7
											4.7	0.8	116	28.0	28.0	7.9	7.9	22.5	22.5	59.9	59.9	4.1	5.6	5.6	8	88	88	88	88	822063	811478	<0.2	0.7	<0.2	0.7
					Middle	4.7	0.9	124	27.9	27.9	7.9	7.9	22.6	22.5	59.9	59.9	4.1	5.5	5.5	9	89	89	89	89	822063	811478	<0.2	0.7	<0.2	0.7					
						8.4	0.5	108	27.8	27.8	8.0	8.0	23.5	23.5	58.1	58.3	4.0	4.0	10.1	8	89	89	89	89	822063	811478	<0.2	0.8	<0.2	0.7					
						8.4	0.5	111	27.8	27.8	8.0	8.0	23.5	23.5	58.4	58.4	4.0	4.0	9.8	8	89	89	89	89	822063	811478	<0.2	0.7	<0.2	0.7					
					IM12	Cloudy	Moderate	12:06	8.6	Surface	1.0	0.6	101	28.8	28.8	8.1	8.1	20.2	20.2	94.6	94.5	6.5	5.7	2.7	8	85	86	88	88	821467	812052	<0.2	0.7	<0.2	0.7
											1.0	0.6	105	28.8	28.8	8.1	8.1	20.2	20.2	94.4	94.4	6.5	5.7	2.8	8	86	88	88	88	821467	812052	<0.2	0.7	<0.2	0.7
											4.3	0.5	112	28.1	28.1	8.0	8.0	21.8	21.8	70.5	70.5	4.9	4.2	4.2	7	88	88	88	88	821467	812052	<0.2	0.7	<0.2	0.7
Middle	4.3	0.5	122	28.1						28.1	8.0	8.0	21.8	21.8	70.4	70.4	4.9	4.2	4.2	8	88	88	88	88	821467	812052	<0.2	0.7	<0.2	0.7					
	7.6	0.4	104	27.8						27.8	7.9	7.9	23.2	23.2	61.0	61.1	4.2	4.2	15.8	7	90	90	90	90	821467	812052	<0.2	0.7	<0.2	0.7					
	7.6	0.4	110	27.8						27.8	7.9	7.9	23.2	23.2	61.2	61.2	4.2	4.2	15.1	8	90	90	90	90	821467	812052	<0.2	0.8	<0.2	0.8					
SR1A	Cloudy	Calm	12:24	4.4						Surface	1.0	-	-	28.9	28.9	8.2	8.2	20.1	20.2	114.5	114.6	7.9	7.9	3.8	9	-	-	-	-	819975	812655	-	-	-	-
											1.0	-	-	28.9	28.9	8.2	8.2	20.2	20.2	114.7	114.7	7.9	7.9	3.8	8	-	-	-	-	819975	812655	-	-	-	-
											2.2	-	-	-	-	-	-	-	-	-	-	-	-	-	7.9	-	-	-	-	-	-	-	-	-	-
					Middle	2.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	819975	812655	-	-	-	-		
						3.4	-	-	28.5	28.6	8.2	8.2	20.9	20.9	100.2	100.4	6.9	6.9	3.9	8	-	-	-	-	-	-	-	819975	812655	-	-	-	-		
						3.4	-	-	28.6	28.6	8.2	8.2	20.9	20.9	100.5	100.5	6.9	6.9	3.9	9	-	-	-	-	-	-	-	819975	812655	-	-	-	-		
					SR2	Cloudy	Moderate	12:33	4.5	Surface	1.0	0.7	99	28.6	28.6	8.0	8.0	20.8	20.8	88.3	88.2	6.1	6.1	3.5	8	86	86	87	87	821470	814164	<0.2	0.8	<0.2	0.7
											1.0	0.7	103	28.5	28.5	8.0	8.0	20.9	20.8	88.1	88.1	6.1	6.1	3.7	9	86	86	87	87	821470	814164	<0.2	0.7	<0.2	0.7
											-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.1	-	-	-	-	-	-	-	821470	814164	<0.2
Middle	-	-	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	821470	814164	<0.2	0.7	<0.2	0.7		
	3.5	0.4	118	28.1						28.2	8.0	8.0	22.5	22.5	75.3	75.6	5.2	5.2	6.1	8	88	88	88	88	821470	814164	<0.2	0.7	<0.2	0.7					
	3.5	0.4	125	28.2						28.2	8.0	8.0	22.5	22.5	75.8	75.8	5.2	5.2	6.1	7	88	88	88	88	821470	814164	<0.2	0.7	<0.2	0.7					
SR3	Cloudy	Moderate	11:32	9.5						Surface	1.0	0.1	115	28.9	28.9	8.1	8.1	19.1	19.1	104.8	104.8	7.3	5.7	2.6	7	-	-	-	-	822148	807562	-	-	-	-
											1.0	0.1	116	28.9	28.9	8.1	8.1	19.1	19.1	104.7	104.7	7.3	5.7	2.7	6	-	-	-	-	822148	807562	-	-	-	-
											4.8	0.2	170	27.7	27.7	7.9	7.9	23.7	23.7	60.1	60.2	4.1	5.3	5.3	6	-	-	-	-	822148	807562	-	-	-	-
					Middle	4.8	0.2	177	27.7	27.7	7.9	7.9	23.7	23.7	60.3	60.3	4.2	5.3	5.3	7	-	-	-	-	822148	807562	-	-	-	-					
						8.5	0.1	181	27.6	27.6	8.0	8.0	24.1	24.1	65.6	65.9	4.5	4.6	7.3	6	-	-	-	-	822148	807562	-	-	-	-					
						8.5	0.1	193	27.6	27.6	8.0	8.0	24.1	24.1	66.1	66.1	4.6	4.6	7.2	7	-	-	-	-	822148	807562	-	-	-	-					
					SR4A	Cloudy	Moderate	12:38	9.8	Surface	1.0	0.0	192	28.2	28.2	7.9	7.9	18.7	18.7	95.3	95.1	6.7	5.5	3.6	6	-	-	-	-	817191	807802	-	-	-	-
											1.0	0.0	200	28.2	28.2	7.9	7.9	18.7	18.7	94.9	94.9	6.7	5.5	3.6	7	-	-	-	-	817191	807802	-	-	-	-
											4.9	0.1	126	27.4	27.4	7.7	7.7	22.8	22.8	61.4	61.4	4.3	7.5	7.5	6	-	-	-	-	817191	807802	-	-	-	-
Middle	4.9	0.1	134	27.4						27.4	7.7	7.7	22.8	22.8	61.3	61.3	4.3	7.5	7.5	6	-	-	-	-	817191	807802	-	-	-	-					
	8.8	0.1	109	27.3						27.3	7.7	7.7	24.3	24.3	57.2	57.3	4.0	10.7	10.7	6	-	-	-	-	817191	807802	-	-	-	-					
	8.8	0.1	118	27.3						27.3	7.7	7.7	24.3	24																					

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

Water Quality Monitoring Results on 02 July 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	Fine	Moderate	04:54	7.5	Surface	1.0	0.0	351	28.3	28.3	7.9	7.9	16.6	16.6	93.9	93.8	6.7	6.0	3.4	5.6	5	6	83	88	815641	804267	<0.2	0.9	<0.2	0.7
						1.0	0.0	6	28.3	28.3	7.9	7.9	16.6	16.6	93.7	93.8	6.7	6.0	3.4	5.6	6	6	84	88			<0.2	0.7	<0.2	0.7
						3.8	0.1	93	27.8	27.8	7.8	7.8	20.4	20.4	75.9	75.9	5.3	5.3	5.5	5.5	6	6	88	89			<0.2	0.7	<0.2	0.7
					3.8	0.1	94	27.8	27.8	7.8	7.8	20.4	20.4	75.8	75.8	5.3	5.3	5.5	5.5	5	5	89	91	<0.2			0.7	<0.2	0.7	
					6.5	0.2	210	27.3	27.3	7.8	7.8	24.2	24.2	66.5	66.8	4.6	4.6	7.7	7.7	5	5	91	92	<0.2			1.0	<0.2	0.9	
					6.5	0.2	226	27.3	27.3	7.8	7.8	24.2	24.2	67.0	67.0	4.6	4.6	7.8	7.8	6	6	92	92	<0.2			0.9	<0.2	0.9	
					1.0	0.7	52	28.8	28.8	8.0	8.0	16.8	16.7	82.8	82.7	5.8	5.8	2.5	2.5	5	5	87	87	<0.2			0.9	<0.2	0.9	
					1.0	0.8	53	28.8	28.8	8.0	8.0	16.7	16.7	82.5	82.5	5.8	5.8	2.4	2.4	5	5	87	87	<0.2			0.8	<0.2	1.4	
					6.3	0.7	38	28.1	28.1	7.9	7.9	21.4	21.4	63.0	63.0	4.4	4.4	7.2	7.2	4	4	88	89	<0.2			1.3	<0.2	1.3	
6.3	0.7	34	28.1	28.1	7.9	7.9	21.4	21.4	63.0	63.0	4.4	4.4	7.2	7.2	5	5	89	90	<0.2	1.1	<0.2	1.1								
11.5	0.6	46	27.8	27.9	7.9	7.9	24.0	24.0	62.2	62.6	4.3	4.3	17.4	17.4	5	5	90	90	<0.2	1.3	<0.2	1.3								
11.5	0.7	48	28.0	28.0	7.9	7.9	24.0	24.0	62.9	62.9	4.3	4.3	17.7	17.7	5	5	90	90	<0.2	0.9	<0.2	0.9								
C3	Fine	Moderate	05:01	11.3	Surface	1.0	0.2	281	27.4	27.4	8.0	8.0	25.3	25.3	79.7	79.6	5.5	4.8	1.5	2.4	6	6	85	88	822125	817785	<0.2	0.9	<0.2	1.0
						1.0	0.2	307	27.4	27.4	8.0	8.0	25.3	25.3	79.5	79.5	5.5	4.8	1.5	2.5	5	5	88	88			<0.2	0.9	<0.2	1.0
						5.7	0.5	243	26.4	26.4	8.0	8.0	29.2	29.2	60.6	60.6	4.2	4.1	2.8	2.8	6	6	88	88			<0.2	1.1	<0.2	1.1
					5.7	0.5	254	26.4	26.4	8.0	8.0	29.2	29.2	60.6	60.6	4.1	4.1	2.8	2.8	6	6	88	88	<0.2			0.8	<0.2	0.8	
					10.3	0.1	237	26.3	26.3	8.0	8.0	29.6	29.5	66.9	67.4	4.6	4.6	3.0	3.0	6	6	89	89	<0.2			0.9	<0.2	0.9	
					10.3	0.1	241	26.3	26.3	8.0	8.0	29.5	29.5	67.9	67.9	4.6	4.6	3.0	3.0	6	6	89	89	<0.2			0.9	<0.2	0.9	
					1.0	0.0	29	28.1	28.1	7.8	7.8	17.3	17.3	89.3	89.2	6.3	6.3	3.6	3.6	5	5	83	83	<0.2			1.3	<0.2	1.3	
					1.0	0.0	33	28.0	28.1	7.8	7.8	17.3	17.3	89.0	89.0	6.3	6.3	3.6	3.6	5	5	83	83	<0.2			1.4	<0.2	1.4	
					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	85	817937
4.8	0.2	67	27.8	27.8	7.8	7.8	18.8	18.8	82.0	82.1	5.8	5.8	3.4	3.4	5	5	87	88	<0.2	1.4	<0.2	1.4								
4.8	0.2	66	27.8	27.8	7.8	7.8	18.8	18.8	82.1	82.1	5.8	5.8	3.4	3.4	6	6	88	88	<0.2	1.4	<0.2	1.4								
IM2	Fine	Moderate	05:26	7.9	Surface	1.0	0.1	46	27.8	27.8	7.9	7.9	20.8	20.7	79.7	79.8	5.6	5.3	3.8	4.5	5	6	79	83	818163	806183	<0.2	1.2	<0.2	1.2
						1.0	0.1	49	27.8	27.8	7.9	7.9	20.7	20.7	79.8	79.8	5.6	5.3	3.8	3.8	6	6	83	87			<0.2	1.2	<0.2	1.2
						4.0	0.2	49	27.6	27.6	7.8	7.8	21.9	21.9	70.2	70.1	4.9	4.9	4.8	4.8	6	6	87	87			<0.2	1.1	<0.2	1.1
					4.0	0.2	51	27.6	27.6	7.8	7.8	21.9	21.9	69.9	69.9	4.9	4.9	4.8	4.8	6	6	87	91	<0.2			1.2	<0.2	1.2	
					6.9	0.3	57	27.3	27.3	7.7	7.7	24.5	24.5	58.0	58.1	4.0	4.0	4.8	4.8	5	5	91	91	<0.2			1.2	<0.2	1.2	
					6.9	0.3	66	27.3	27.3	7.7	7.7	24.5	24.5	58.1	58.1	4.0	4.0	4.9	4.9	6	6	91	91	<0.2			1.2	<0.2	1.2	
					1.0	0.0	44	28.1	28.1	8.0	8.0	20.0	20.0	91.4	91.4	6.4	6.4	3.1	3.1	5	5	83	83	<0.2			1.3	<0.2	1.3	
					1.0	0.0	47	28.1	28.1	8.0	8.0	20.0	20.0	91.3	91.3	6.4	6.4	3.1	3.1	5	5	83	83	<0.2			1.2	<0.2	1.2	
					3.8	0.2	57	27.6	27.6	7.8	7.8	22.8	22.8	71.9	72.0	5.0	5.0	5.2	5.2	5	5	87	87	<0.2			1.3	<0.2	1.3	
3.8	0.2	61	27.6	27.6	7.8	7.8	22.8	22.8	72.0	72.0	5.0	5.0	5.2	5.2	5	5	87	91	<0.2	1.2	<0.2	1.2								
6.5	0.1	45	27.5	27.5	7.8	7.8	23.0	23.0	67.7	67.8	4.7	4.7	6.1	6.1	5	5	91	91	<0.2	1.2	<0.2	1.2								
6.5	0.1	45	27.5	27.5	7.8	7.8	23.0	23.0	67.9	67.9	4.7	4.7	6.1	6.1	6	6	91	91	<0.2	1.3	<0.2	1.3								
IM4	Fine	Moderate	05:42	7.4	Surface	1.0	0.3	51	28.1	28.1	7.9	7.9	20.4	20.4	88.8	88.7	6.2	5.2	3.8	6.2	6	7	83	84	819738	804625	<0.2	1.4	<0.2	1.4
						1.0	0.3	53	28.1	28.1	7.9	7.9	20.4	20.4	88.6	88.6	6.2	5.2	3.8	3.8	7	7	84	87			<0.2	1.3	<0.2	1.3
						3.7	0.3	60	27.4	27.4	7.8	7.8	23.9	23.9	61.4	61.4	4.3	4.2	6.2	6.2	6	6	87	91			<0.2	1.2	<0.2	1.2
					3.7	0.3	59	27.4	27.4	7.8	7.8	23.9	23.9	61.3	61.3	4.2	4.2	6.2	6.2	6	6	87	91	<0.2			1.2	<0.2	1.2	
					6.4	0.3	61	27.2	27.2	7.7	7.7	24.8	24.8	55.5	55.6	3.8	3.8	8.4	8.4	8	8	91	91	<0.2			1.2	<0.2	1.2	
					6.4	0.3	62	27.2	27.2	7.7	7.7	24.8	24.8	55.6	55.6	3.8	3.8	8.5	8.5	7	7	91	91	<0.2			1.3	<0.2	1.3	
					1.0	0.2	43	28.1	28.1	7.9	7.9	19.3	19.3	89.5	89.6	6.3	6.3	3.6	3.6	7	7	83	84	<0.2			1.4	<0.2	1.4	
					1.0	0.2	41	28.1	28.1	7.9	7.9	19.4	19.3	89.6	89.6	6.3	6.3	3.6	3.6	6	6	84	88	<0.2			1.4	<0.2	1.4	
					4.1	0.2	43	28.1	28.1	7.9	7.9	19.7	19.7	88.6	88.4	6.2	6.2	3.6	3.6	6	6	88	88	<0.2			1.4	<0.2	1.4	
4.1	0.2	41	28.1	28.1	7.9	7.9	19.7	19.7	88.2	88.2	6.2	6.2	3.6	3.6	5	5	88	91	<0.2	1.4	<0.2	1.4								
7.2	0.3	71	27.3	27.3	7.7	7.7	24.2	24.3	57.0	56.9	4.0	4.0	6.7	6.7	6	6	91	92	<0.2	1.3	<0.2	1.3								
7.2	0.3	76	27.3	27.3	7.7	7.7	24.3	24.3	56.7	56.7	3.9	3.9	6.7	6.7	6	6	92	92	<0.2	1.4	<0.2	1.4								
IM6	Fine	Moderate	06:00	8.2	Surface	1.0	0.2	43	28.2	28.2	7.9	7.9	19.7	19.7	95.4	95.3	6.7	5.5	4.1	7.0	6	6	80	80	821062	805836	<0.2	1.5	<0.2	1.4
						1.0	0.2	40	28.2	28.2	7.9	7.9	19.7	19.7	95.2	95.2	6.7	5.5	4.1	4.1	7	7	80	87			<0.2	1.5	<0.2	1.5
						4.1	0.2	79	27.4	27.4	7.7	7.7	23.4	23.4	61.0	61.1	4.2	4.2	7.8	7.8	6	6	87	87			<0.2	1.6	<0.2	1.6
					4.1	0.2	81	27.4	27.4	7.7	7.7	23.4	23.4	61.1	61.1	4.2	4.2	7.8	7.8	7	7	87	91	<0.2			1.6	<0.2	1.6	
					7.2	0.2	40	27.3	27.3	7.7	7.7	23.9	23.9	61.																

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

Water Quality Monitoring Results on 02 July 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	06:34	8.1	Surface	1.0	0.5	299	29.0	29.0	8.1	8.1	17.9	17.9	96.9	96.9	6.8	2.5	6	85	88	822102	808821	<0.2	1.3	<0.2	1.3		
						1.0	0.5	302	29.0	8.1	8.1	17.9	17.9	96.9	96.9	6.8	2.5	6	85	88	822102	808821	<0.2	1.3					
						4.1	0.5	302	28.0	7.9	7.9	22.0	22.0	62.2	62.3	4.3	8.0	6	89	88	822102	808821	<0.2	1.3					
					Middle	4.1	0.6	304	28.0	7.9	7.9	22.0	22.0	62.3	62.3	4.3	8.3	6	89	88	822102	808821	<0.2	1.3					
						7.1	0.4	251	28.0	7.9	7.9	23.0	23.0	63.7	64.0	4.4	11.0	6	90	88	822102	808821	<0.2	1.4					
						7.1	0.4	257	28.0	7.9	7.9	23.0	23.0	64.2	64.4	4.4	10.9	6	90	88	822102	808821	<0.2	1.3					
					Bottom	1.0	0.7	286	29.0	8.1	8.1	17.5	17.5	97.4	97.2	6.8	2.2	5	86	88	822102	808821	<0.2	1.4					
						1.0	0.7	282	29.0	8.1	8.1	17.5	17.5	97.0	97.0	6.8	2.4	5	86	88	822102	808821	<0.2	1.4					
						4.3	0.7	283	28.1	7.9	7.9	22.0	22.0	59.8	59.7	4.1	8.2	4	88	88	822102	808821	<0.2	1.4					
Bottom	4.3	0.8	283	28.1	7.9	7.9	22.0	22.0	59.6	59.3	4.1	8.4	5	88	88	822102	808821	<0.2	1.4										
	7.5	0.4	235	27.9	7.9	7.9	23.3	23.3	59.2	59.3	4.1	19.1	5	89	88	822102	808821	<0.2	1.4										
	7.5	0.4	224	27.9	7.9	7.9	23.3	23.3	59.3	59.3	4.1	19.4	4	90	88	822102	808821	<0.2	1.4										
IM10	Fine	Moderate	06:25	8.5	Surface	1.0	0.7	286	29.0	29.0	8.1	8.1	17.5	17.5	97.4	97.2	6.8	2.2	5	86	88	822400	809802	<0.2	1.4	<0.2	1.4		
						1.0	0.7	282	29.0	8.1	8.1	17.5	17.5	97.0	97.0	6.8	2.4	5	86	88	822400	809802	<0.2	1.4					
						4.3	0.7	283	28.1	7.9	7.9	22.0	22.0	59.8	59.7	4.1	8.2	4	88	88	822400	809802	<0.2	1.4					
					Middle	4.3	0.8	283	28.1	7.9	7.9	22.0	22.0	59.6	59.3	4.1	8.4	5	88	88	822400	809802	<0.2	1.4					
						7.5	0.4	235	27.9	7.9	7.9	23.3	23.3	59.2	59.3	4.1	19.1	5	89	88	822400	809802	<0.2	1.4					
						7.5	0.4	224	27.9	7.9	7.9	23.3	23.3	59.3	59.3	4.1	19.4	4	90	88	822400	809802	<0.2	1.4					
					Bottom	1.0	0.6	265	28.8	28.8	8.1	8.1	18.2	18.2	91.8	91.8	6.4	3.1	7	86	88	822060	811441	<0.2	1.4				
						1.0	0.6	252	28.8	28.8	8.1	8.1	18.2	18.2	91.7	91.7	6.4	3.1	6	87	88	822060	811441	<0.2	1.4				
						4.9	0.5	254	27.9	27.9	8.0	8.0	22.6	22.6	69.8	69.7	4.8	5.5	6	88	88	822060	811441	<0.2	1.5				
Bottom	4.9	0.5	235	27.9	27.9	8.0	8.0	22.6	22.6	69.5	69.7	4.8	5.6	5	88	88	822060	811441	<0.2	1.5									
	8.7	0.2	210	27.4	27.4	8.0	8.0	25.0	24.9	66.0	66.6	4.6	6.8	4	90	88	822060	811441	<0.2	1.4									
	8.7	0.2	213	27.4	27.4	8.0	8.0	24.8	24.9	67.2	66.6	4.6	6.7	6	90	88	822060	811441	<0.2	1.4									
IM11	Fine	Moderate	06:11	9.7	Surface	1.0	0.4	252	28.3	28.3	8.1	8.1	21.7	21.7	90.0	90.0	6.2	3.1	8	84	88	821463	812027	<0.2	1.0	<0.2	1.1		
						1.0	0.5	250	28.2	28.2	8.1	8.1	21.8	21.7	89.9	90.0	6.2	3.1	7	85	88	821463	812027	<0.2	1.1				
						4.7	0.4	240	27.5	27.5	8.0	8.0	24.3	24.5	66.3	66.4	4.6	4.9	8	88	88	821463	812027	<0.2	1.3				
					Middle	4.7	0.4	241	27.4	27.4	8.0	8.0	24.7	24.5	66.5	66.4	4.6	5.3	7	89	88	821463	812027	<0.2	1.1				
						8.3	0.3	191	27.4	27.4	8.0	8.0	24.8	24.7	72.5	73.2	5.0	5.8	7	90	88	821463	812027	<0.2	1.1				
						8.3	0.3	195	27.4	27.4	8.0	8.0	24.7	24.7	73.9	73.2	5.1	5.8	8	90	88	821463	812027	<0.2	1.1				
					Bottom	1.0	-	-	28.4	28.4	8.1	8.1	20.9	20.9	90.3	90.3	6.3	4.2	8	-	-	819979	812666	-	-			-	-
						1.0	-	-	28.3	28.3	8.1	8.1	20.9	20.9	90.2	90.3	6.3	4.3	7	-	-	819979	812666	-	-			-	-
						2.4	-	-	-	-	-	-	-	-	-	-	-	-	6.3	-	-	8	-	819979	812666			-	-
Bottom	2.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	-	819979	812666	-	-	-	-					
	3.7	-	-	28.0	28.0	8.1	8.1	23.1	23.1	75.6	75.8	5.2	4.9	8	-	-	8	-	819979	812666	-	-	-	-					
	3.7	-	-	28.0	28.0	8.1	8.1	23.1	23.1	76.0	75.8	5.2	4.7	8	-	-	8	-	819979	812666	-	-	-	-					
SR2	Fine	Moderate	05:26	5.2	Surface	1.0	0.5	276	28.1	28.1	8.1	8.1	21.3	21.3	86.4	86.4	6.0	4.3	7	85	87	821448	814177	<0.2	1.0	<0.2	1.1		
						1.0	0.5	280	28.1	28.1	8.1	8.1	21.3	21.3	86.3	86.4	6.0	4.4	6	85	87	821448	814177	<0.2	1.2				
						-	-	-	-	-	-	-	-	-	-	-	-	-	6.0	-	-	7	-	821448	814177			<0.2	1.1
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	-	821448	814177			<0.2	1.1
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	-	821448	814177			<0.2	1.1
						4.2	0.0	242	28.0	28.1	8.0	8.0	23.1	23.1	75.7	76.0	5.2	7.1	8	88	88	821448	814177	<0.2	1.2				
					Bottom	4.2	0.0	251	28.1	28.1	8.0	8.0	23.1	23.1	76.2	76.0	5.2	7.7	8	88	88	821448	814177	<0.2	1.1				
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	-	821448	814177			<0.2	1.1
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	-	821448	814177			<0.2	1.1
SR3	Fine	Moderate	06:47	9.6	Surface	1.0	0.2	87	28.6	28.6	8.0	8.0	19.7	19.7	81.4	81.4	5.7	4.5	7	-	-	822168	807582	-	-	<0.2	-		
						1.0	0.3	88	28.6	28.6	8.0	8.0	19.7	19.7	81.3	81.4	5.7	4.4	7	-	-	822168	807582	-	-				
						4.8	0.2	23	28.2	28.2	7.9	7.9	21.4	21.4	65.3	65.4	4.5	6.6	6	-	-	822168	807582	-	-				
					Middle	4.8	0.2	30	28.2	28.2	7.9	7.9	21.4	21.4	65.4	65.4	4.5	6.4	6	-	-	822168	807582	-	-				
						8.6	0.2	21	27.8	27.9	7.9	7.9	23.8	23.8	63.3	63.9	4.4	9.6	6	-	-	822168	807582	-	-				
						8.6	0.2	23	27.9	27.9	7.9	7.9	23.8	23.8	64.5	63.9	4.4	9.3	6	-	-	822168	807582	-	-				
					Bottom	1.0	0.3	203	27.9	27.9	7.8	7.8	17.8	17.8	80.3	80.2	5.7	4.2	6	-	-	8217204	807786	-	-			-	-
						1.0	0.3	211	27.9	27.9	7.8	7.8	17.8	17.8	80.0	80.2	5.7	4.3	6	-	-	8217204	807786	-	-			-	-
						4.8	0.2	286	27.6	27.6	7.7	7.7	20.4	20.5	69.6	69.4	4.9	9.2	5	-	-	8217204	807786	-	-			-	-
Bottom	4.8	0.2	287	27.6	27.6	7.7	7.7	20.5	20.5	69.2	69.4	4.9	9.2	6	-	-	8217204	807786	-	-	-	-							
	8.5	0.1	275	27.5	27.5	7.7	7.7	21.8	21.8	67.2	67.3	4.7	15.0	6	-	-	8217204	807786	-	-	-	-							
	8.5	0.1	278	27.5	27.5	7.7	7.7	21.8	21.8	67.3	67.3	4.7	15.1	7	-	-	8217204	807786	-	-	-	-							
SR5A	Fine	Moderate	04:05	5.2	Surface	1.0	0.1	250	28.6	28.6	8.1	8.1	19.3	19.3	112.4	112.3	7.8	4.1	6	-	-	816608	810694	-	-	<0.2	-		

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

Water Quality Monitoring

Water Quality Monitoring Results on 04 July 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	13:27	9.2	Surface	1.0	0.4	219	28.1	28.1	7.8	7.8	17.7	17.7	87.4	87.3	6.2	5.9	4.4	13.2	5	85	88	815606	804268	<0.2	1.4							
						1.0	0.4	227	28.1	28.1	7.8	7.8	17.7	17.7	87.2	87.3	6.2	5.9	4.5	5	86	88			<0.2	1.4								
						4.6	0.3	183	27.5	27.5	7.8	7.8	20.0	20.0	78.7	78.7	5.6	5.6	15.1	4	88	89			<0.2	1.5	1.4							
					Middle	4.6	0.3	191	27.5	27.5	7.8	7.8	20.0	20.0	78.7	78.7	5.6	5.6	15.1	4	89	90			<0.2	1.5								
						8.2	0.5	189	27.5	27.5	7.8	7.8	20.1	20.1	79.4	79.5	5.6	5.6	20.0	4	90	90			<0.2	1.5								
						8.2	0.5	199	27.5	27.5	7.8	7.8	20.1	20.1	79.5	79.5	5.6	5.6	20.1	5	90	90			<0.2	1.4								
					C2	Rainy	Moderate	12:26	11.8	Surface	1.0	0.4	150	28.3	28.3	7.9	7.9	18.0	18.0	78.2	78.2	5.5	5.3	5.2	5.2	9	82	86	825702	806943	<0.2	1.5		
											1.0	0.4	152	28.3	28.3	7.9	7.9	18.0	18.0	78.1	78.1	5.5	5.3	5.2	8	84	87			<0.2	1.5			
											5.9	0.6	160	28.1	28.1	7.9	7.9	19.3	19.3	72.1	72.1	5.1	5.1	5.4	8	87	88			<0.2	1.4	1.5		
Middle	5.9	0.6	162	28.1						28.1	7.9	7.9	19.3	19.3	72.1	72.1	5.1	5.1	5.4	8	88	89			<0.2	1.5								
	10.8	0.4	142	28.1						28.1	7.9	7.9	19.5	19.5	73.5	73.6	5.2	5.2	5.1	8	86	88			<0.2	1.5								
	10.8	0.4	151	28.1						28.1	7.9	7.9	19.5	19.5	73.7	73.7	5.2	5.2	5.1	9	88	88			<0.2	1.4								
C3	Rainy	Moderate	14:12	11.9						Surface	1.0	0.4	95	28.0	28.0	7.9	7.9	21.4	21.4	71.7	71.6	5.0	5.0	5.5	8	84	86	822107	817818	<0.2	1.1			
											1.0	0.4	95	27.9	27.9	7.9	7.9	21.4	21.4	71.5	71.5	5.0	5.0	5.4	9	86	89			<0.2	1.2	1.2		
											6.0	0.2	61	27.8	27.8	7.9	7.9	21.7	21.7	70.3	70.3	4.9	4.9	6.8	8	89	90			<0.2	1.2			
					Middle	6.0	0.3	66	27.7	27.7	7.9	7.9	21.7	21.7	70.2	70.2	4.9	4.9	6.8	9	90	90			<0.2	1.2								
						10.9	0.2	119	27.3	27.3	7.9	7.9	25.0	25.0	63.9	64.0	4.4	4.4	9.4	9	90	91			<0.2	1.3								
						10.9	0.2	130	27.3	27.3	7.9	7.9	25.0	25.0	64.1	64.1	4.4	4.4	9.1	8	91	91			<0.2	1.2								
					IM1	Cloudy	Rough	13:07	5.8	Surface	1.0	0.1	150	28.0	28.0	7.8	7.8	17.4	17.4	89.1	89.1	6.3	6.3	4.5	6	85	86	817945	807131	<0.2	1.5			
											1.0	0.1	156	28.0	28.0	7.8	7.8	17.4	17.4	89.0	89.0	6.3	6.3	4.5	7	86	87			<0.2	1.4			
											-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Middle	-	-	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	4.8	0.3	167	27.7						27.7	7.8	7.8	18.2	18.2	87.4	87.6	6.2	6.2	5.8	7	88	89			<0.2	1.5								
	4.8	0.3	167	27.8						27.8	7.8	7.8	18.1	18.1	87.6	87.6	6.2	6.2	5.8	7	89	89			<0.2	1.5								
IM2	Cloudy	Rough	13:01	7.5						Surface	1.0	0.2	174	27.8	27.8	7.8	7.8	18.1	18.1	85.9	85.8	6.1	5.9	6.4	8	85	85	818141	806169	<0.2	1.6			
											1.0	0.2	178	27.7	27.7	7.8	7.8	18.1	18.1	85.6	85.6	6.1	6.1	6.7	9	85	88			<0.2	1.6			
											3.8	0.1	159	27.5	27.5	7.8	7.8	19.7	19.7	80.4	80.4	5.7	5.7	14.4	9	88	89			<0.2	1.5	1.5		
					Middle	3.8	0.2	171	27.5	27.5	7.8	7.8	19.7	19.7	80.4	80.4	5.7	5.7	14.2	8	89	90			<0.2	1.5								
						6.5	0.2	154	27.5	27.5	7.8	7.8	19.7	19.7	81.1	81.3	5.7	5.7	17.1	7	90	90			<0.2	1.4								
						6.5	0.2	162	27.5	27.5	7.8	7.8	19.7	19.7	81.4	81.4	5.8	5.8	17.2	7	90	90			<0.2	1.4								
					IM3	Cloudy	Rough	12:54	7.9	Surface	1.0	0.1	197	27.9	27.9	7.8	7.8	18.5	18.5	84.6	84.5	6.0	5.8	7.4	8	85	85	818765	805600	<0.2	1.5			
											1.0	0.1	199	27.9	27.9	7.8	7.8	18.5	18.5	84.4	84.4	6.0	6.0	8.2	8	85	88			<0.2	1.4			
											4.0	0.4	138	27.5	27.5	7.8	7.8	20.1	20.1	78.3	78.3	5.5	5.5	14.2	7	88	89			<0.2	1.5	1.4		
Middle	4.0	0.4	141	27.5						27.5	7.8	7.8	20.2	20.1	78.2	78.3	5.5	5.5	14.8	8	89	90			<0.2	1.4								
	6.9	0.4	156	27.5						27.5	7.8	7.8	20.4	20.4	78.5	78.6	5.5	5.5	18.3	7	90	90			<0.2	1.4								
	6.9	0.4	156	27.5						27.5	7.8	7.8	20.4	20.4	78.6	78.6	5.5	5.5	18.7	7	90	90			<0.2	1.4								
IM4	Cloudy	Rough	12:45	8.4						Surface	1.0	0.6	179	28.5	28.5	7.8	7.8	15.8	15.8	89.1	89.0	6.3	6.2	4.8	8	85	86	819729	804591	<0.2	1.4			
											1.0	0.6	183	28.4	28.4	7.8	7.8	15.8	15.8	88.8	88.8	6.3	6.2	4.9	8	86	89			<0.2	1.4			
											4.2	0.6	197	28.0	28.0	7.8	7.8	18.7	18.8	86.0	86.0	6.1	6.1	5.3	9	89	90			<0.2	1.4	1.5		
					Middle	4.2	0.6	209	27.9	27.9	7.8	7.8	18.8	18.8	85.9	86.0	6.1	6.1	5.3	9	90	91			<0.2	1.5								
						7.4	0.4	195	27.4	27.4	7.8	7.8	20.7	20.7	78.8	78.9	5.6	5.6	9.4	8	91	91			<0.2	1.4								
						7.4	0.4	210	27.4	27.4	7.8	7.8	20.7	20.7	79.0	79.0	5.6	5.6	9.6	8	91	91			<0.2	1.4								
					IM5	Cloudy	Rough	12:39	8.0	Surface	1.0	0.4	213	27.9	27.9	7.8	7.8	18.7	18.7	85.1	85.1	6.0	5.8	5.0	8	86	86	820720	804885	<0.2	1.5			
											1.0	0.4	231	27.9	27.9	7.8	7.8	18.8	18.7	85.0	85.0	6.0	6.0	5.1	7	86	88			<0.2	1.5			
											4.0	0.4	203	27.5	27.5	7.8	7.8	19.9	20.0	78.4	78.2	5.5	5.5	5.7	7	88	89			<0.2	1.3	1.4		
Middle	4.0	0.4	219	27.5						27.5	7.8	7.8	20.0	20.0	78.0	78.0	5.5	5.5	5.8	8	89	90			<0.2	1.4								
	7.0	0.3	206	27.4						27.4	7.8	7.8	20.7	20.7	77.8	78.1	5.5	5.5	12.4	8	91	91			<0.2	1.3								
	7.0	0.4	220	27.4						27.4	7.8	7.8	20.7	20.7	78.3	78.3	5.5	5.5	12.1	7	91	91			<0.2	1.3								
IM6	Cloudy	Rough	12:32	8.1						Surface	1.0	0.3	236	27.7	27.7	7.8	7.8	19.1	19.1	84.8	84.7	6.0	5.9	6.9	8	86	85	821072	805840	<0.2	1.4			
											1.0	0.3	247	27.7	27.7	7.8	7.8	19.1	19.1	84.6	84.6	6.0	6.0	6.9	8	85	88			<0.2	1.4			
											4.1	0.3	246	27.6	27.6	7.8	7.8	19.4	19.5	81.5	81.5	5.8	5.8	7.5	9	88	88			<0.2	1.4	1.4		
					Middle	4.1	0.3	250	27.6	27.6																								

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

Water Quality Monitoring

Water Quality Monitoring Results on 04 July 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	Rainy	Moderate	12:53	7.7	Surface	1.0	0.4	95	28.3	28.3	7.9	7.9	18.6	18.6	80.9	80.9	5.7	5.5	5.5	7	82	87	87	87	822107	808808	<0.2	1.5	<0.2	1.4					
						1.0	0.4	95	28.3	28.3	7.9	7.9	18.6	18.6	80.8	80.8	5.7	5.6	5.6	7	84	87	87	87			<0.2	1.4	<0.2	1.4					
						3.9	0.5	110	28.1	28.1	7.9	7.9	18.7	18.7	75.3	75.3	5.3	9.2	9.2	7	87	87	87	87			<0.2	1.4	<0.2	1.4					
					Middle	3.9	0.5	119	28.1	28.1	7.9	7.9	18.7	18.7	75.1	75.1	5.3	9.8	9.8	6	88	88	88	88			<0.2	1.4	<0.2	1.4					
						6.7	0.4	112	28.0	28.0	7.9	7.9	20.6	20.6	71.9	71.9	5.0	13.5	13.5	7	90	90	90	90			<0.2	1.4	<0.2	1.4					
						6.7	0.4	118	28.0	28.0	7.9	7.9	20.6	20.6	71.9	71.9	5.0	13.0	13.0	6	89	89	89	89			<0.2	1.4	<0.2	1.4					
					Bottom	1.0	1.0	107	28.4	28.4	7.9	7.9	18.1	18.1	82.2	82.2	5.8	6.3	6.3	6	85	85	85	85			<0.2	1.4	<0.2	1.4					
						1.0	1.0	117	28.4	28.4	7.9	7.9	18.1	18.1	82.2	82.2	5.8	6.5	6.5	7	86	86	86	86			<0.2	1.4	<0.2	1.4					
						3.9	0.8	111	28.1	28.1	7.9	7.9	18.8	18.8	75.4	75.4	5.3	8.7	8.7	7	89	89	89	89			<0.2	1.4	<0.2	1.4					
IM10	Cloudy	Moderate	12:58	7.8	Surface	3.9	0.9	114	28.1	28.1	7.9	7.9	18.8	18.8	75.1	75.1	5.3	8.7	8.7	7	88	88	88	88	822403	809817	<0.2	1.4	<0.2	1.4					
						6.8	0.6	104	28.0	28.0	7.9	7.9	19.8	19.8	74.7	74.7	5.2	13.1	13.1	7	90	90	90	90			<0.2	1.4	<0.2	1.4					
						6.8	0.6	109	28.0	28.0	7.9	7.9	19.8	19.8	74.8	74.8	5.2	13.1	13.1	7	89	89	89	89			<0.2	1.4	<0.2	1.4					
					Middle	1.0	1.1	109	28.4	28.4	7.9	7.9	18.2	18.2	83.8	83.8	5.9	9.4	9.4	8	84	84	84	84			<0.2	1.3	<0.2	1.3					
						1.0	1.1	110	28.4	28.4	7.9	7.9	18.2	18.2	83.8	83.8	5.9	9.4	9.4	8	86	86	86	86			<0.2	1.3	<0.2	1.3					
						3.8	0.8	108	28.4	28.4	7.9	7.9	18.2	18.2	84.2	84.2	5.9	9.8	9.8	7	87	87	87	87			<0.2	1.4	<0.2	1.4					
					Bottom	3.8	0.8	117	28.4	28.4	7.9	7.9	18.2	18.2	84.0	84.0	5.9	9.8	9.8	8	88	88	88	88			<0.2	1.4	<0.2	1.4					
						6.6	0.5	106	28.1	28.1	7.9	7.9	19.6	19.6	77.3	77.3	5.4	11.8	11.8	6	89	89	89	89			<0.2	1.3	<0.2	1.3					
						6.6	0.5	112	28.1	28.1	7.9	7.9	19.6	19.6	77.4	77.4	5.4	11.8	11.8	7	89	89	89	89			<0.2	1.4	<0.2	1.4					
IM11	Cloudy	Moderate	13:06	7.6	Surface	1.0	0.8	107	28.4	28.4	7.9	7.9	18.5	18.5	81.3	81.3	5.7	5.4	5.4	6	84	84	84	84	822072	811450	<0.2	1.4	<0.2	1.4					
						1.0	0.8	107	28.4	28.4	7.9	7.9	18.5	18.5	81.2	81.2	5.7	5.4	5.4	7	85	85	85	85			<0.2	1.4	<0.2	1.4					
						4.2	0.7	100	28.3	28.3	7.9	7.9	18.9	18.9	78.5	78.5	5.5	6.3	6.3	8	89	89	89	89			<0.2	1.5	<0.2	1.4					
					Middle	4.2	0.7	108	28.3	28.3	7.9	7.9	18.9	18.9	78.5	78.5	5.5	6.3	6.3	8	88	88	88	88			<0.2	1.4	<0.2	1.4					
						7.3	0.4	95	28.1	28.1	7.9	7.9	19.8	19.8	74.6	74.6	5.2	15.0	15.0	9	90	90	90	90			<0.2	1.4	<0.2	1.4					
						7.3	0.5	98	28.0	28.0	7.9	7.9	19.8	19.8	74.6	74.6	5.2	15.0	15.0	8	89	89	89	89			<0.2	1.4	<0.2	1.4					
					Bottom	1.0	-	-	28.2	28.2	8.0	8.0	19.8	19.8	83.1	83.0	5.8	5.1	5.1	7	-	-	-	-			-	-	-	819977	812656	-	-	-	-
						1.0	-	-	28.2	28.2	8.0	8.0	19.9	19.8	82.9	82.9	5.8	5.1	5.1	7	-	-	-	-			-	-	-			-	-	-	-
						2.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-			-	-	-	-
Middle	2.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-									
	3.9	-	-	28.1	28.1	7.9	7.9	20.2	20.2	83.2	83.3	5.8	7.4	7.4	8	-	-	-	-	-	-	-	-	-	-	-									
	3.9	-	-	28.1	28.1	7.9	7.9	20.2	20.2	83.4	83.4	5.8	7.4	7.4	8	-	-	-	-	-	-	-	-	-	-	-									
SR2	Rainy	Moderate	13:55	4.6	Surface	1.0	0.7	120	28.2	28.2	7.9	7.9	19.1	19.1	78.5	78.5	5.5	7.1	7.1	6	83	83	83	83	821451	814189	<0.2	1.4	<0.2			1.4			
						1.0	0.7	124	28.2	28.2	7.9	7.9	19.1	19.1	78.4	78.4	5.5	7.1	7.1	6	85	85	85	85			<0.2	1.4	<0.2			1.4			
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-			-	-	-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-	-	-	-		
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-	-	-	-		
						3.6	0.4	146	28.1	28.1	7.9	7.9	19.7	19.7	78.9	79.0	5.5	9.3	9.3	7	90	90	90	90			<0.2	1.4	<0.2	1.4					
					Bottom	3.6	0.5	153	28.1	28.1	7.9	7.9	19.7	19.7	79.1	79.1	5.5	9.4	9.4	6	88	88	88	88			<0.2	1.4	<0.2	1.4					
						1.0	0.0	119	28.4	28.4	7.9	7.9	17.9	17.9	82.0	82.1	5.8	5.2	5.2	7	-	-	-	-			-	-	-	-	-	-			
						1.0	0.0	126	28.4	28.4	7.9	7.9	17.9	17.9	82.1	82.1	5.8	5.2	5.2	7	-	-	-	-			-	-	-	-	-				
Middle	4.3	0.3	178	28.1	28.1	7.9	7.9	19.0	19.0	74.6	74.6	5.2	8.2	8.2	7	-	-	-	-	-	-	-	-	-											
	4.3	0.3	190	28.1	28.1	7.9	7.9	19.0	19.0	74.5	74.5	5.2	8.2	8.2	7	-	-	-	-	-	-	-	-	-											
	7.6	0.3	180	27.9	27.9	7.9	7.9	20.4	20.4	72.5	72.5	5.1	7.5	7.5	6	-	-	-	-	-	-	-	-												
Bottom	7.6	0.3	189	27.9	27.9	7.9	7.9	20.4	20.4	72.5	72.5	5.1	7.5	7.5	7	-	-	-	-	-	-	-	-	-											
	1.0	0.2	134	28.1	28.1	7.8	7.8	17.6	17.6	87.4	87.4	6.2	5.6	5.6	7	-	-	-	-	-	-	-	-												
	1.0	0.2	140	28.1	28.1	7.8	7.8	17.6	17.6	87.4	87.4	6.2	5.9	5.9	7	-	-	-	-	-	-	-	-												
Middle	4.7	0.1	81	27.5	27.5	7.8	7.8	18.6	18.6	81.8	81.8	5.8	11.2	11.2	7	-	-	-	-	-	-	-	-												
	4.7	0.1	86	27.5	27.5	7.8	7.8	18.6	18.6	81.8	81.8	5.8	11.0	11.0	6	-	-	-	-	-	-	-	-												
	8.4	0.2	62	27.5	27.5	7.8	7.8	18.8	18.7	83.9	84.3	6.0	11.7	11.7	6	-	-	-	-	-	-	-													
Bottom	8.4	0.2	67	27.6	27.6	7.8	7.8	18.7	18.7	84.7	84.3	6.0	11.6	11.6	6	-	-	-	-	-	-	-	-												
	1.0	0.1	109	27.9	27.9	7.8	7.8	18.3	18.3	86.1	86.1	6.1	6.8	6.8	11	-	-	-	-	-	-	-													
	1.0	0.1	112	27.9	27.9	7.8	7.8	18.3	18.3	86.1	86.1	6.1	6.9	6.9	10	-	-	-	-	-	-	-													
Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-												
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-												
	3.9	0.1	45	27.9	27.9	7.8	7.8	18.5	18.5	86.5	86.6	6.1	7.4	7.4	10	-	-	-	-	-	-	-													
Bottom	3.9	0.1	46	27.9	27.9	7.8																													

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

Water Quality Monitoring Results on 04 July 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	Moderate	07:12	9.5	Surface	1.0	0.1	355	27.6	7.8	7.8	17.4	17.4	79.7	79.7	5.7	5.7	4.9	7	87	89	89	89	89	89	815628	804226	<0.2	1.2	1.1	1.1					
						1.0	0.1	7	27.6	7.8	7.8	17.4	17.4	79.6	79.6	5.7	5.0	5.0	6	88	88	88	88	88	88	88	88	88	88	88	88	88	88			
					Middle	4.8	0.1	306	27.2	27.2	7.8	7.8	22.6	22.5	68.2	68.1	4.8	4.8	6.4	7	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	
						4.8	0.1	329	27.2	27.2	7.8	7.8	22.5	22.5	67.9	67.9	4.8	4.8	6.4	7	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89
					Bottom	8.5	0.1	268	26.7	26.7	7.7	7.7	28.0	28.0	48.5	49.0	3.3	3.3	10.0	7	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90
						8.5	0.1	286	26.8	26.8	7.7	7.7	28.0	28.0	49.5	49.5	3.4	3.4	9.7	7	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90
C2	Cloudy	Moderate	07:59	11.6	Surface	1.0	0.6	95	28.4	7.9	7.9	17.2	17.2	81.4	81.4	5.8	5.8	8.0	8	84	84	84	84	84	84	825700	806922	<0.2	1.4	1.4	1.4					
						1.0	0.6	100	28.4	28.4	7.9	7.9	17.2	17.2	81.3	81.3	5.7	5.7	8.0	9	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	
					Middle	5.8	0.4	102	27.9	27.9	7.9	7.9	20.7	20.6	65.2	65.5	4.6	4.6	12.5	9.4	8	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87
						5.8	0.5	103	27.9	27.9	7.9	7.9	20.6	20.6	65.7	65.7	4.6	4.6	12.7	8	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88
					Bottom	10.6	0.4	151	27.5	27.5	7.9	7.9	24.0	24.1	60.3	60.3	4.2	4.2	7.7	10	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90
						10.6	0.4	159	27.5	27.5	7.9	7.9	24.1	24.1	60.2	60.2	4.2	4.2	7.7	11	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90
C3	Cloudy	Moderate	06:28	11.3	Surface	1.0	0.2	240	27.2	8.0	8.0	25.1	25.1	64.5	64.5	4.5	4.5	3.5	6	86	86	86	86	86	86	822127	817779	<0.2	2.2	2.1	2.1					
						1.0	0.2	240	27.2	27.2	8.0	8.0	25.1	25.1	64.4	64.4	4.5	4.5	3.5	7	85	85	85	85	85	85	85	85	85	85	85	85	85	85		
					Middle	5.7	0.3	243	26.7	26.7	7.9	7.9	27.2	27.2	54.7	54.7	3.8	3.8	5.5	5.7	6	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87
						5.7	0.3	253	26.7	26.7	7.9	7.9	27.2	27.2	54.7	54.7	3.8	3.8	5.5	7	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88
					Bottom	10.3	0.1	234	26.7	26.7	7.9	7.9	27.4	27.4	53.5	53.5	3.7	3.7	8.1	6	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89
						10.3	0.1	240	26.7	26.7	7.9	7.9	27.4	27.4	53.5	53.5	3.7	3.7	8.2	7	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90
IM1	Cloudy	Moderate	07:30	5.5	Surface	1.0	0.3	43	27.8	7.8	7.8	17.1	17.1	86.3	86.3	6.2	6.2	5.1	6	86	86	86	86	86	86	817925	807150	<0.2	1.5	1.4	1.4					
						1.0	0.3	42	27.8	27.8	7.8	7.8	17.1	17.1	86.3	86.3	6.2	6.2	5.2	6	86	86	86	86	86	86	86	86	86	86	86	86	86	86		
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
					Bottom	4.5	0.2	63	27.6	27.6	7.8	7.8	17.7	17.7	84.3	84.4	6.0	6.0	6.7	5	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88
						4.5	0.2	68	27.6	27.6	7.8	7.8	17.6	17.6	84.4	84.4	6.0	6.0	6.5	6	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88
IM2	Cloudy	Moderate	07:36	8.2	Surface	1.0	0.1	28	27.8	7.8	7.8	17.6	17.6	84.6	84.5	6.0	5.9	5.4	6	86	86	86	86	86	86	818175	806188	<0.2	1.6	1.6	1.6					
						1.0	0.1	29	27.8	27.8	7.8	7.8	17.6	17.6	84.3	84.3	6.0	5.5	5.5	6	86	86	86	86	86	86	86	86	86	86	86	86	86	86		
					Middle	4.1	0.1	67	27.6	27.6	7.8	7.8	18.2	18.2	82.1	82.0	5.8	5.8	6.1	6	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	
						4.1	0.1	63	27.6	27.6	7.8	7.8	18.2	18.2	81.8	81.8	5.8	5.8	6.4	7	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	
					Bottom	7.2	0.1	65	27.5	27.5	7.8	7.8	19.9	19.9	82.1	82.1	5.8	5.8	9.5	8	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	
						7.2	0.1	70	27.5	27.5	7.8	7.8	19.9	19.9	82.4	82.3	5.8	5.8	9.3	7	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90
IM3	Cloudy	Moderate	07:42	8.0	Surface	1.0	0.1	37	27.9	7.8	7.8	17.9	17.9	84.3	84.3	6.0	5.9	5.2	7	86	86	86	86	86	86	818792	805612	<0.2	1.6	1.6	1.6					
						1.0	0.1	38	27.9	27.9	7.8	7.8	17.9	17.9	84.2	84.2	6.0	5.3	5.3	7	86	86	86	86	86	86	86	86	86	86	86	86	86	86		
					Middle	4.0	0.1	68	27.5	27.5	7.8	7.8	19.2	19.3	81.9	81.9	5.8	5.8	6.8	8	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	
						4.0	0.1	70	27.5	27.5	7.8	7.8	19.3	19.3	81.9	81.9	5.8	5.8	7.0	7	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	
					Bottom	7.0	0.1	58	27.5	27.5	7.8	7.8	19.9	19.8	82.5	82.5	5.8	5.8	7.5	8	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	
						7.0	0.1	60	27.5	27.5	7.8	7.8	19.7	19.8	82.6	82.6	5.8	5.8	7.3	8	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	
IM4	Cloudy	Moderate	07:50	8.5	Surface	1.0	0.1	33	27.8	7.8	7.8	18.7	18.7	81.8	81.7	5.8	5.5	5.4	6	87	87	87	87	87	87	819714	804600	<0.2	1.6	1.6	1.6					
						1.0	0.1	35	27.8	27.8	7.8	7.8	18.8	18.7	81.5	81.5	5.8	5.5	5.5	6	87	87	87	87	87	87	87	87	87	87	87	87	87			
					Middle	4.3	0.2	49	27.5	27.5	7.8	7.8	20.2	20.2	77.3	77.2	5.5	5.5	7.6	5	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	
						4.3	0.2	48	27.5	27.5	7.8	7.8	20.3	20.2	77.1	77.1	5.4	5.4	7.8	6	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	
					Bottom	7.5	0.2	51	27.4	27.4	7.8	7.8	20.7	20.7	77.4	77.7	5.5	5.5	10.5	5	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	
						7.5	0.2	53	27.4	27.4	7.8	7.8	20.7	20.7	78.0	77.7	5.5	5.5	10.5	6	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	
IM5	Cloudy	Moderate	07:59	8.3	Surface	1.0	0.1	28	27.7	7.8																										

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

Water Quality Monitoring Results on 04 July 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	07:32	7.6	Surface	1.0	0.7	326	28.1	28.1	7.9	7.9	18.1	18.1	82.7	82.7	5.8	5.8	10.8	12	86	86					<0.2	1.5			
						1.0	0.7	337	28.1	28.1	7.9	7.9	18.2	18.2	82.6	82.6	5.8	5.8	10.9	14	85	85					<0.2	1.4			
						3.8	0.6	311	28.0	28.0	7.9	7.9	18.5	18.5	82.6	82.6	5.8	5.8	8.7	13	89	89					<0.2	1.4			
					Middle	3.8	0.6	313	28.0	28.0	8.0	8.0	18.5	18.5	82.7	82.7	5.8	5.8	8.7	13	90	90					<0.2	1.6			
						6.6	0.4	294	28.0	28.0	8.0	8.0	18.8	18.8	86.1	86.2	6.1	6.1	9.1	16	90	90					<0.2	1.6			
						6.6	0.4	288	28.0	28.0	8.0	8.0	18.8	18.8	86.3	86.2	6.1	6.1	9.1	15	90	90					<0.2	1.6			
					Bottom	1.0	0.8	282	28.1	28.1	8.0	8.0	18.5	18.6	82.1	82.0	5.8	5.8	6.3	5	85	85					<0.2	2.0			
						1.0	0.8	283	28.1	28.1	8.0	8.0	18.6	18.6	81.8	82.0	5.8	5.8	6.8	5	86	86					<0.2	1.9			
						3.8	0.5	290	28.0	28.0	8.0	7.9	19.5	19.5	78.1	77.9	5.5	5.5	9.9	6	88	88					<0.2	2.0			
Middle	3.8	0.6	294	28.0	28.0	7.9	7.9	19.5	19.5	77.6	77.9	5.5	5.5	9.9	7	87	87					<0.2	2.1								
	6.6	0.3	273	27.9	27.9	8.0	8.0	21.0	21.0	72.7	72.7	5.1	5.1	11.2	7	89	89					<0.2	2.0								
	6.6	0.3	275	27.9	27.9	8.0	8.0	21.0	21.0	72.7	72.7	5.1	5.1	11.0	6	90	90					<0.2	2.0								
IM10	Cloudy	Moderate	07:22	7.6	Surface	1.0	0.5	264	28.1	28.1	7.9	7.9	18.8	18.8	76.5	76.5	5.4	5.4	5.1	7	86	86					<0.2	1.9			
						1.0	0.6	270	28.1	28.1	7.9	7.9	18.8	18.8	76.4	76.4	5.4	5.4	5.0	6	87	87					<0.2	1.9			
						3.8	0.3	268	28.0	28.0	8.0	8.0	20.6	20.6	74.5	74.5	5.2	5.2	5.0	6	88	88					<0.2	1.9			
					Middle	3.8	0.3	253	28.0	28.0	8.0	8.0	20.7	20.6	74.4	74.5	5.2	5.2	5.0	7	89	89					<0.2	2.0			
						6.5	0.1	259	28.0	28.0	8.0	8.0	21.4	21.4	73.8	73.9	5.1	5.1	4.8	7	90	90					<0.2	2.0			
						6.5	0.2	242	27.9	27.9	8.0	8.0	21.4	21.4	73.9	73.9	5.1	5.1	4.9	7	91	91					<0.2	2.0			
					Bottom	1.0	0.3	247	28.1	28.1	8.0	8.0	20.7	20.8	75.8	75.7	5.3	5.3	4.5	6	85	85					<0.2	1.9			
						1.0	0.3	253	28.1	28.1	8.0	8.0	20.8	20.8	75.6	75.6	5.3	5.3	4.7	5	86	86					<0.2	1.8			
						4.4	0.2	243	27.8	27.8	7.9	7.9	21.9	22.0	67.5	67.4	4.7	4.7	6.9	6	87	87					<0.2	1.9			
Middle	4.4	0.2	246	27.8	27.8	7.9	7.9	22.0	22.0	67.3	67.3	4.7	4.7	7.0	6	89	89					<0.2	2.1								
	7.7	0.3	235	27.7	27.7	7.9	7.9	22.5	22.5	66.7	66.7	4.6	4.6	7.7	5	91	91					<0.2	1.9								
	7.7	0.3	238	27.7	27.7	7.9	7.9	22.5	22.5	66.7	66.7	4.6	4.6	7.6	6	90	90					<0.2	1.9								
SR1A	Cloudy	Moderate	06:50	4.9	Surface	1.0	-	-	27.9	27.9	8.0	8.0	20.8	20.9	73.8	73.8	5.2	5.2	4.3	6	-	-					-	-			
						1.0	-	-	27.9	27.9	8.0	8.0	20.8	20.8	73.9	73.9	5.1	5.1	4.4	7	-	-					-	-			
						2.5	-	-	-	-	-	-	-	-	-	-	-	-	-	5.2	-	-	4.2	7	-	-			-	-	
					Middle	2.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	
						3.9	-	-	27.9	27.9	8.0	8.0	21.1	21.1	73.5	73.6	5.1	5.1	3.9	7	-	-	-	-	-	-			-	-	
						3.9	-	-	27.9	27.9	8.0	8.0	21.1	21.1	73.6	73.6	5.1	5.1	4.0	7	-	-	-	-	-	-			-	-	
					Bottom	1.0	0.2	230	27.9	27.9	8.0	8.0	20.8	20.8	73.9	73.9	5.2	5.2	4.7	7	85	85					<0.2	2.0			
						1.0	0.2	232	27.9	27.9	8.0	8.0	20.8	20.8	73.9	73.9	5.2	5.2	4.7	8	86	86					<0.2	2.0			
						3.5	0.2	207	27.9	27.9	8.0	8.0	21.1	21.1	73.7	73.7	5.1	5.1	3.6	8	90	90					<0.2	2.0			
Middle	3.5	0.3	232	27.9	27.9	8.0	8.0	21.1	21.1	73.7	73.7	5.1	5.1	3.6	9	89	89					<0.2	2.0								
	1.0	0.3	46	28.2	28.2	7.9	7.9	17.8	17.8	80.8	80.8	5.7	5.7	7.8	9	-	-					-	-								
	1.0	0.3	52	28.2	28.2	7.9	7.9	17.8	17.8	80.7	80.7	5.7	5.7	7.8	10	-	-					-	-								
Middle	4.1	0.2	55	28.1	28.1	7.9	7.9	18.4	18.5	76.1	76.0	5.4	5.4	8.8	12	-	-					-	-								
	4.1	0.2	59	28.1	28.1	7.9	7.9	18.5	18.5	75.9	75.9	5.4	5.4	9.0	11	-	-					-	-								
	7.1	0.2	58	28.1	28.1	7.9	7.9	19.1	19.1	74.5	74.5	5.2	5.2	11.3	11	-	-					-	-								
Bottom	7.1	0.2	63	28.1	28.1	7.9	7.9	19.1	19.1	74.5	74.5	5.2	5.2	11.4	12	-	-					-	-								
	1.0	0.5	284	27.6	27.6	7.7	7.7	17.0	17.0	82.5	82.5	5.9	5.9	8.6	11	-	-					-	-								
	1.0	0.5	290	27.6	27.6	7.7	7.7	17.0	17.0	82.4	82.4	5.9	5.9	8.8	11	-	-					-	-								
Middle	4.6	0.4	278	27.5	27.5	7.7	7.7	17.8	17.8	81.3	81.3	5.8	5.8	11.9	11	-	-					-	-								
	4.6	0.5	279	27.5	27.5	7.7	7.7	17.9	17.8	81.3	81.3	5.8	5.8	12.2	11	-	-					-	-								
	8.2	0.4	278	27.5	27.5	7.7	7.7	17.9	17.9	82.0	82.1	5.9	5.9	12.5	11	-	-					-	-								
Bottom	8.2	0.4	282	27.5	27.5	7.7	7.7	17.9	17.9	82.1	82.1	5.9	5.9	12.0	12	-	-					-	-								
	1.0	0.1	256	27.4	27.4	7.8	7.8	20.3	20.3	79.5	79.5	5.6	5.6	6.7	10	-	-					-	-								
	1.0	0.1	263	27.4	27.4	7.8	7.8	20.3	20.3	79.4	79.4	5.6	5.6	6.8	10	-	-					-	-								
Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.8	-	-			-	-							
	4.2	0.1	226	27.4	27.4	7.8	7.8	20.6	20.6	80.0	80.4	5.7	5.7	9.1	10	-	-					-	-								
	4.2	0.1	228	27.4	27.4	7.8	7.8	20.5	20.6	80.7	80.7	5.7	5.7	8.8	10	-	-					-	-								
Bottom	1.0	0.1	233	27.6	27.6	7.7	7.7	19.6	19.6	78.5	78.4	5.6	5.6	4.6	6	-	-					-	-								
	1.0	0.1	236	27.6	27.6	7.7	7.7	19.6	19.6	78.2	78.4	5.5	5.5	4.7	5	-	-					-	-								
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.1	-	-			-	-							
Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-							
	4.7	0.0	249	27.4	27.4	7.7	7.7	20.3	20.2	77.0	77.2	5.4	5.4	5.6	7	-	-					-	-								
	4.7	0.0	260	27.4	27.4	7.7	7.7	20.2	20.2	77.3	77.2	5.5	5.5	5.7	8	-	-					-	-								
SR7	Cloudy	Moderate	05:58	16.3	Surface	1.0	0.1	210	27.2	27.2	7.9	7.9	25.0	25.0	78.8	78.8	5.4	5.4	2.6	3	-	-			-	-					
						1																									

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

Water Quality Monitoring

Water Quality Monitoring Results on 06 July 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	Fine		Rough	15:19	8.6	Surface	1.0	0.3	138	28.1	28.1	7.7	7.7	14.3	14.3	80.4	80.3	5.8			5.8	6.8	6.7	12	13	83
					Middle	4.3	0.2	141	27.9	27.9	7.7	7.7	16.0	16.2	67.7	67.5	4.9	4.8	16.0	16.2	12	15	88	87	815627	804240	<0.2	1.1	<0.2	1.1		
					Bottom	7.6	0.4	155	27.8	27.3	7.7	7.7	17.7	18.4	66.6	66.7	4.7	4.8	11.6	11.6	20	21	91	91	815627	804240	<0.2	1.1	<0.2	1.1		
					Surface	1.0	0.3	104	29.3	29.3	7.8	7.8	11.7	11.7	83.2	82.9	6.0	5.9	3.7	3.7	10	10	85	87	825697	806938	<0.2	1.9	<0.2	1.8		
					Middle	5.7	0.2	135	28.9	28.9	7.8	7.8	14.8	14.8	70.3	70.2	5.0	5.0	8.0	8.0	9	9	87	87	825697	806938	<0.2	2.0	<0.2	1.7		
					Bottom	10.4	0.3	135	28.7	28.7	7.8	7.8	16.5	16.7	69.2	69.3	4.9	4.9	10.1	10.0	7	8	91	89	825697	806938	<0.2	1.9	<0.2	1.9		
					Surface	1.0	0.2	122	28.7	28.7	7.9	7.9	17.0	17.1	74.7	74.7	5.3	5.3	1.8	1.8	8	7	86	85	822109	817798	<0.2	1.5	<0.2	1.5		
					Middle	5.9	0.6	149	27.8	27.8	7.9	7.9	21.8	21.9	56.7	55.2	3.9	3.7	2.5	2.6	12	10	88	87	822109	817798	<0.2	1.4	<0.2	1.4		
					Bottom	10.8	0.1	156	26.4	26.4	7.9	7.9	28.6	28.6	46.4	46.5	3.2	3.2	7.8	7.8	14	13	90	90	822109	817798	<0.2	1.4	<0.2	1.5		
					Surface	1.0	0.2	201	28.2	28.2	7.7	7.7	15.1	15.1	84.7	84.7	6.1	6.1	6.3	6.6	10	11	83	84	817953	807134	<0.2	1.3	<0.2	1.4		
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	88	817953	807134	<0.2	-	<0.2	-	
					Bottom	4.4	0.1	252	28.1	28.1	7.7	7.7	15.2	15.2	84.4	84.5	6.1	6.1	7.5	7.7	8	9	91	92	817953	807134	<0.2	1.3	<0.2	1.2		
					Surface	1.0	0.5	219	28.1	28.1	7.7	7.7	14.9	14.9	81.6	81.5	5.9	5.9	5.3	5.3	7	8	80	83	818173	806171	<0.2	1.2	<0.2	1.2		
					Middle	3.6	0.3	203	28.0	28.0	7.7	7.7	15.1	15.2	78.3	78.0	5.6	5.6	8.2	8.2	9	9	88	88	818173	806171	<0.2	1.2	<0.2	1.2		
					Bottom	6.1	0.2	141	27.8	27.8	7.7	7.6	16.1	16.8	72.1	69.5	5.2	4.8	12.5	12.5	9	10	91	91	818173	806171	<0.2	1.2	<0.2	1.3		
					Surface	1.0	0.5	204	28.1	28.1	7.7	7.7	14.8	14.8	78.9	78.8	5.7	5.7	5.5	5.5	14	14	83	84	818787	805616	<0.2	1.2	<0.2	1.1		
					Middle	3.9	0.6	193	28.0	28.0	7.7	7.7	15.9	15.9	74.3	74.1	5.3	5.3	7.2	7.3	12	12	88	91	818787	805616	<0.2	1.2	<0.2	1.3		
					Bottom	6.7	0.3	186	27.7	27.7	7.6	7.6	18.1	18.1	63.9	63.9	4.5	4.5	11.1	11.0	11	10	92	92	818787	805616	<0.2	1.2	<0.2	1.2		
					Surface	1.0	0.7	205	28.2	28.2	7.7	7.7	13.8	13.8	84.1	84.1	6.1	6.1	5.7	5.7	10	9	83	83	819738	804614	<0.2	1.2	<0.2	1.2		
					Middle	3.9	0.8	183	28.1	28.1	7.7	7.7	14.7	14.8	79.2	79.0	5.7	5.7	5.2	5.3	10	9	87	87	819738	804614	<0.2	1.2	<0.2	1.2		
					Bottom	6.8	0.5	177	27.8	27.8	7.7	7.7	18.5	18.5	70.0	70.2	5.0	5.0	8.9	8.9	12	13	91	91	819738	804614	<0.2	1.2	<0.2	1.2		
					Surface	1.0	0.9	201	28.1	28.1	7.7	7.7	13.8	13.8	83.1	83.0	6.0	6.0	5.6	5.6	9	9	84	84	820727	804872	<0.2	1.2	<0.2	1.2		
					Middle	4.1	0.9	195	28.0	28.0	7.7	7.7	14.3	14.3	78.8	78.5	5.7	5.6	6.1	6.2	9	9	88	88	820727	804872	<0.2	1.3	<0.2	1.2		
					Bottom	7.2	0.5	164	27.9	27.9	7.7	7.7	16.2	16.3	72.5	72.4	5.2	5.2	8.5	8.6	8	9	91	91	820727	804872	<0.2	1.2	<0.2	1.2		
					Surface	1.0	0.0	188	28.2	28.2	7.7	7.7	15.1	15.1	79.0	79.0	5.7	5.7	4.2	4.2	18	17	83	85	821053	805829	<0.2	1.4	<0.2	1.4		
					Middle	4.0	0.0	183	27.9	27.9	7.7	7.7	17.5	17.5	71.0	71.0	5.1	5.1	5.3	5.3	13	14	88	88	821053	805829	<0.2	1.2	<0.2	1.3		
					Bottom	7.0	0.0	155	27.9	27.9	7.7	7.7	18.4	18.5	70.8	71.2	5.0	5.1	9.6	9.6	11	10	91	92	821053	805829	<0.2	1.3	<0.2	1.3		
					Surface	1.0	0.2	178	28.3	28.3	7.7	7.7	12.6	12.7	81.7	81.6	5.9	5.9	5.7	5.9	13	13	83	84	821335	806825	<0.2	1.4	<0.2	1.4		
					Middle	4.1	0.2	179	28.0	28.0	7.7	7.7	16.5	16.5	74.7	74.8	5.3	5.3	9.0	9.1	12	11	88	88	821335	806825	<0.2	1.4	<0.2	1.4		
					Bottom	7.1	0.2	146	28.0	28.0	7.7	7.7	16.7	16.7	75.5	75.6	5.4	5.4	10.3	10.3	10	11	91	91	821335	806825	<0.2	1.4	<0.2	1.4		
					Surface	1.0	0.6	163	28.9	28.9	7.8	7.8	12.8	12.8	83.4	83.4	6.0	6.0	9.2	9.1	10	11	85	84	821814	808116	<0.2	1.8	<0.2	1.7		
					Middle	4.0	0.6	157	28.8	28.8	7.8	7.8	13.1	13.1	81.8	81.7	5.9	5.9	9.9	9.9	11	11	89	89	821814	808116	<0.2	1.7	<0.2	1.8		
					Bottom	6.9	0.3	154	28.7	28.7	7.8	7.8	14.3	14.4	81.1	81.3	5.8	5.8	10.6	10.7	12	13	90	90	821814	808116	<0.2	1.8	<0.2	1.8		

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 06 July 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	Moderate	14:28	7.3	Surface	1.0	0.5	160	29.0	29.0	7.8	7.8	10.8	10.8	82.4	82.1	6.0	5.5	5.5	7	85	88	88	822098	808834	<0.2	1.8	1.9	1.9					
						1.0	0.5	155	29.0	7.8	7.8	10.9	10.9	81.7	75.1	5.9	5.9	5.9	6	86	87	87	87	88	88	<0.2	1.8	1.9						
						3.7	0.4	147	28.9	7.8	7.8	13.8	13.8	75.1	75.1	5.4	5.4	5.4	5	87	88	88	88	88	88	<0.2	2.0	1.9						
					Middle	3.7	0.4	152	28.9	28.9	7.8	7.8	13.8	13.8	75.1	75.1	5.4	5.4	5.4	7.9	87	87	87	87	87	87	<0.2	1.6	1.9	1.9				
						6.3	0.2	155	28.8	28.8	7.8	7.8	14.8	14.8	76.8	77.0	5.5	5.5	5.5	12.2	6	90	88	88	88	88	<0.2	1.9	1.9	1.9				
						6.3	0.2	150	28.8	28.8	7.8	7.8	14.8	14.8	77.1	77.0	5.5	5.5	5.5	12.3	6	90	88	88	88	88	<0.2	1.9	1.9	1.9				
					IM10	Cloudy	Moderate	14:33	7.2	Surface	1.0	0.6	151	29.0	29.0	7.8	7.8	12.7	12.7	77.2	77.1	5.5	5.6	5.6	6	86	88	88	822366	809814	<0.2	2.0	1.9	1.9
											1.0	0.6	147	28.9	28.9	7.8	7.8	12.7	12.7	77.0	77.0	5.5	5.7	5.7	6	85	87	87	87	87	87	<0.2	1.9	1.9
											3.6	0.2	145	28.9	28.9	7.8	7.8	13.7	13.8	76.4	76.4	5.5	6.9	6.9	6	87	88	88	88	88	88	<0.2	1.9	1.9
Middle	3.6	0.2	133	28.9						28.9	7.8	7.8	13.8	13.8	76.4	76.4	5.5	6.9	6.9	6	88	88	88	88	88	88	<0.2	1.9	1.9	1.9				
	6.2	0.1	135	28.8						28.8	7.8	7.8	15.0	15.0	77.1	77.2	5.5	6.8	6.8	8	89	88	88	88	88	88	<0.2	2.0	1.9					
	6.2	0.1	139	28.8						28.8	7.8	7.8	15.1	15.0	77.2	77.2	5.5	6.9	6.9	9	90	88	88	88	88	88	<0.2	2.0	1.9					
IM11	Cloudy	Moderate	14:41	7.9						Surface	1.0	0.2	143	28.9	28.9	7.8	7.8	15.8	15.8	76.1	76.0	5.4	3.8	3.8	8	85	88	88	822058	811457	<0.2	1.5	1.6	1.6
											1.0	0.2	146	28.8	28.8	7.8	7.8	15.8	15.8	75.9	75.8	5.4	3.8	3.8	7	86	88	88	88	88	<0.2	1.6	1.6	
											4.0	0.1	137	28.6	28.6	7.8	7.8	16.3	16.3	73.8	73.8	5.2	4.8	4.8	7	88	88	88	88	88	<0.2	1.6	1.6	
					Middle	4.0	0.1	141	28.6	28.6	7.8	7.8	16.3	16.3	73.7	73.8	5.2	5.0	5.0	6	87	88	88	88	88	88	<0.2	1.6	1.6					
						6.9	0.1	129	28.4	28.4	7.8	7.8	17.8	17.8	69.6	69.7	4.9	6.5	6.5	7	89	88	88	88	88	88	<0.2	1.6	1.6					
						6.9	0.1	142	28.4	28.4	7.8	7.8	17.8	17.8	69.7	69.7	4.9	6.4	6.4	8	90	88	88	88	88	88	<0.2	1.6	1.6					
					IM12	Cloudy	Moderate	14:47	8.2	Surface	1.0	0.2	135	28.9	28.9	7.8	7.8	15.6	15.6	76.3	76.3	5.4	3.4	3.4	6	86	88	88	821467	812023	<0.2	1.7	1.6	1.7
											1.0	0.2	139	28.9	28.9	7.8	7.8	15.6	15.6	76.2	76.2	5.4	3.4	3.4	5	84	89	89	89	89	<0.2	1.6	1.6	
											4.1	0.0	133	28.4	28.4	7.8	7.8	18.1	18.1	67.1	67.1	4.7	5.7	5.7	5	89	88	88	88	88	<0.2	1.6	1.7	
Middle	4.1	0.0	132	28.3						28.3	7.8	7.8	18.1	18.1	67.1	67.1	4.7	5.9	5.9	6	87	89	89	89	89	89	<0.2	1.6	1.7					
	7.2	0.1	129	28.2						28.2	7.8	7.8	19.8	19.7	64.8	64.9	4.5	8.4	8.4	6	89	88	88	88	88	88	<0.2	1.7	1.6					
	7.2	0.1	128	28.2						28.2	7.8	7.8	19.7	19.7	65.0	64.9	4.5	7.8	7.8	7	91	88	88	88	88	88	<0.2	1.6	1.6					
SR1A	Cloudy	Moderate	15:24	5.1						Surface	1.0	-	-	28.8	28.8	7.8	7.8	16.1	16.1	75.5	75.5	5.3	3.7	3.7	5	-	-	-	819979	812657	-	-	-	-
											1.0	-	-	28.8	28.8	7.8	7.8	16.2	16.2	75.4	75.4	5.3	3.7	3.7	5	-	-	-	-	-	-	-	-	-
											2.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					Middle	2.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
						4.1	-	-	28.7	28.7	7.8	7.8	16.6	16.6	75.0	75.1	5.3	3.8	3.8	5	-	-	-	-	-	-	-	-	-	-	-			
						4.1	-	-	28.7	28.7	7.8	7.8	16.6	16.6	75.1	75.1	5.3	3.8	3.8	5	-	-	-	-	-	-	-	-	-	-	-			
					SR2	Cloudy	Moderate	15:43	4.4	Surface	1.0	0.4	100	28.8	28.8	7.8	7.8	16.2	16.2	75.0	75.0	5.3	3.9	3.9	7	85	88	88	821466	814160	<0.2	1.7	1.7	
											1.0	0.4	98	28.8	28.8	7.8	7.8	16.2	16.2	75.0	75.0	5.3	3.9	3.9	6	86	88	88	88	88	<0.2	1.8	1.7	
											-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Middle	-	-	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
	3.4	0.4	140	28.8						28.8	7.8	7.8	16.2	16.2	75.5	75.6	5.3	3.9	3.9	6	89	88	88	88	88	88	<0.2	1.7	1.7					
	3.4	0.4	122	28.8						28.8	7.8	7.8	16.2	16.2	75.6	75.6	5.3	3.8	3.8	5	90	88	88	88	88	88	<0.2	1.7	1.7					
SR3	Cloudy	Moderate	14:19	8.8						Surface	1.0	0.5	184	28.9	28.9	7.9	7.9	11.3	11.3	81.8	81.7	5.9	10.1	10.1	8	-	-	-	822169	807588	-	-	-	
											1.0	0.5	179	28.9	28.9	7.9	7.9	11.3	11.3	81.5	81.5	5.9	11.0	11.0	7	-	-	-	-	-	-	-	-	
											4.4	0.6	171	28.7	28.7	7.9	7.9	14.9	14.9	79.0	79.0	5.6	15.0	15.0	7	-	-	-	-	-	-	-	-	
					Middle	4.4	0.6	176	28.7	28.7	7.9	7.9	14.9	14.9	78.9	79.0	5.6	15.0	15.0	7	-	-	-	-	-	-	-	-	-					
						7.8	0.3	157	28.7	28.7	7.9	7.9	15.1	15.1	79.2	79.3	5.6	13.3	13.3	7	-	-	-	-	-	-	-	-						
						7.8	0.3	159	28.7	28.7	7.9	7.9	15.1	15.1	79.3	79.3	5.6	13.3	13.3	6	-	-	-	-	-	-	-	-						
					SR4A	Fine	Rough	15:46	9.5	Surface	1.0	0.6	99	28.2	28.2	7.7	7.7	14.7	14.7	85.0	85.0	6.1	9.4	9.4	10	-	-	-	817204	807820	-	-	-	
											1.0	0.6	106	28.2	28.2	7.7	7.7	14.7	14.7	85.0	85.0	6.1	9.5	9.5	9	-	-	-	-	-	-	-		
											4.8	0.4	89	28.2	28.2	7.7	7.7	14.9	14.9	83.8	83.7	6.0	11.2	11.2	10	-	-	-	-	-	-			
Middle	4.8	0.5	90	28.2						28.2	7.7	7.7	14.9	14.9	83.6	83.7	6.0	11.2	11.2	11	-	-	-	-	-	-								
	8.5	0.2	93	28.1						28.1	7.7	7.7	15.5	15.5	84.0	84.3	6.0	14.5	14.5	12	-	-	-	-	-									
	8.5	0.3	98	28.1						28.1	7.7	7.7	15.5	15.5	84.5	84.3	6.1	14.5	14.5	13	-	-	-	-	-									
SR5A	Fine	Moderate	16:01	5.4						Surface	1.0	0.2	13	28.3	28.3	7.7	7.7	16.2	16.2	78.0	78.0	5.6	8.3	8.3	8	-	-	-	816584	810709	-	-	-	
											1.0	0.2	13	28.3	28.3	7.7	7.7	16.3	16.2	77.9	77.9	5.5	8.4	8.4	9	-	-	-	-	-				
											-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
						4.4	0.1	19	28.2	28.2	7.6	7.6	16.4	16.4	78.2	78.3	5.6	8.6	8.6	10	-	-	-	-	-									
						4.4	0.1	20	28.2	28.2	7.6	7.6																						

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

Water Quality Monitoring Results on 06 July 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	Moderate	08:17	7.9	Surface	1.0	0.6	35	28.2	28.2	7.7	7.7	14.4	14.4	85.4	85.4	6.2	6.1	5.1	5.8	6	5	83	88	88	815627	804236	<0.2	<0.2	1.3	1.3
						1.0	0.6	37	28.2	28.2	7.7	7.7	14.4	14.4	85.4	85.4	6.2	6.1	5.1	5.8	5	5	84	88				<0.2	<0.2	1.2	1.3
						4.0	0.5	26	28.1	28.1	7.7	7.7	15.0	15.0	81.6	81.3	5.9	5.9	5.5	5.5	5	5	88	88				<0.2	<0.2	1.2	1.2
					4.0	0.6	27	28.1	28.1	7.7	7.7	15.0	15.0	81.3	81.3	5.9	5.9	5.5	5.5	6	5	88	88	<0.2				<0.2	1.2	1.2	
					6.9	0.4	11	28.0	28.0	7.7	7.7	16.3	16.7	74.2	74.3	5.3	5.3	6.7	6.6	5	5	91	90	<0.2				<0.2	1.2	1.3	
					6.9	0.5	11	28.0	28.0	7.7	7.7	17.0	17.0	74.3	74.3	5.3	5.3	6.6	6.6	5	5	92	90	<0.2				<0.2	1.3	1.3	
					1.0	0.5	12	29.0	29.0	7.8	7.8	9.7	9.7	84.8	84.8	6.2	6.2	5.4	5.4	6	6	85	85	<0.2				<0.2	1.6	1.6	
					1.0	0.5	12	29.0	29.0	7.8	7.8	9.7	9.7	84.8	84.8	6.2	6.2	5.4	5.4	5	5	85	85	<0.2				<0.2	1.6	1.6	
					5.8	0.5	349	29.0	29.0	7.8	7.8	14.3	14.3	71.8	71.8	5.1	5.1	4.3	4.3	6	6	87	89	<0.2				<0.2	1.7	1.7	
5.8	0.5	321	29.0	29.0	7.8	7.8	14.3	14.3	71.8	71.8	5.1	5.1	4.3	4.3	6	6	89	89	<0.2	<0.2	1.7	1.7									
10.6	0.4	342	28.9	28.9	7.8	7.8	15.0	15.0	71.6	71.7	5.1	5.1	8.2	8.2	5	5	90	90	<0.2	<0.2	1.7	1.7									
10.6	0.5	342	28.9	28.9	7.8	7.8	15.0	15.0	71.7	71.7	5.1	5.1	8.2	8.2	6	6	90	90	<0.2	<0.2	1.8	1.8									
C2	Cloudy	Moderate	09:38	11.6	Surface	1.0	0.4	255	28.9	28.9	7.8	7.8	13.5	13.5	77.1	77.1	5.5	5.3	3.2	3	3	3	86	88	88	825662	806931	<0.2	<0.2	1.6	1.7
						1.0	0.4	262	28.9	28.9	7.8	7.8	13.5	13.5	77.1	77.1	5.5	5.3	3.2	3	3	3	86	88				<0.2	<0.2	1.7	1.7
						5.9	0.5	250	28.6	28.6	7.9	7.9	16.4	16.4	70.7	70.7	5.0	5.0	3.0	3	2	3	88	89				<0.2	<0.2	1.7	1.7
					5.9	0.6	272	28.6	28.6	7.9	7.9	16.4	16.4	70.6	70.6	5.0	5.0	3.1	3	3	3	88	89	<0.2				<0.2	2.1	2.1	
					10.8	0.4	289	27.2	27.2	7.8	7.8	25.2	25.2	55.4	55.5	3.8	3.8	11.4	11.4	4	4	91	89	<0.2				<0.2	2.2	2.1	
					10.8	0.5	315	27.2	27.2	7.8	7.8	25.2	25.2	55.5	55.5	3.8	3.8	11.4	11.4	4	4	89	89	<0.2				<0.2	2.1	2.1	
					1.0	0.5	359	28.1	28.1	7.7	7.7	15.3	15.3	81.9	81.9	5.9	5.9	6.2	6.2	7	7	83	84	<0.2				<0.2	1.3	1.3	
					1.0	0.5	330	28.1	28.1	7.7	7.7	15.3	15.3	81.8	81.8	5.9	5.9	6.2	6.2	7	7	84	84	<0.2				<0.2	1.3	1.3	
					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-	-
3.5	0.1	330	28.1	28.1	7.7	7.7	15.4	15.4	81.3	81.5	5.8	5.9	7.1	7.0	6	6	88	89	<0.2	<0.2	1.4	1.3									
3.5	0.1	350	28.1	28.1	7.7	7.7	15.4	15.4	81.7	81.5	5.9	5.9	7.0	7.0	7	7	89	89	<0.2	<0.2	1.3	1.3									
IM2	Cloudy	Rough	08:56	6.8	Surface	1.0	0.5	32	28.3	28.3	7.7	7.7	14.1	14.1	84.7	84.7	6.1	5.9	5.1	5.2	5	6	83	88	87	818150	806160	<0.2	<0.2	1.4	1.4
						1.0	0.5	32	28.3	28.3	7.7	7.7	14.1	14.1	84.6	84.7	6.1	6.1	5.1	5.1	5	5	83	88				<0.2	<0.2	1.4	1.4
						3.4	0.5	15	28.2	28.2	7.7	7.7	15.0	15.0	80.2	80.1	5.8	5.8	5.2	5.2	6	6	88	88				<0.2	<0.2	1.4	1.4
					3.4	0.5	15	28.2	28.2	7.7	7.7	15.0	15.0	79.9	79.9	5.7	5.7	5.2	5.2	5	5	88	88	<0.2				<0.2	1.4	1.4	
					5.8	0.4	3	28.2	28.2	7.7	7.7	15.0	15.0	79.6	79.7	5.7	5.7	5.2	5.2	5	5	91	91	<0.2				<0.2	1.3	1.3	
					5.8	0.4	3	28.2	28.2	7.7	7.7	15.0	15.0	79.7	79.7	5.7	5.7	5.2	5.2	6	6	91	91	<0.2				<0.2	1.4	1.4	
					1.0	0.7	6	28.2	28.2	7.7	7.7	13.8	13.8	83.5	83.5	6.0	6.0	5.5	5.5	6	6	88	88	<0.2				<0.2	1.4	1.5	
					1.0	0.7	6	28.2	28.2	7.7	7.7	13.8	13.8	83.4	83.4	6.0	6.0	5.5	5.5	6	6	88	88	<0.2				<0.2	1.5	1.5	
					3.5	0.5	2	28.1	28.1	7.6	7.6	13.8	13.9	81.0	80.7	5.9	5.9	5.5	5.5	6	6	91	91	<0.2				<0.2	1.4	1.4	
3.5	0.5	2	28.0	28.0	7.6	7.6	13.9	13.9	80.4	80.4	5.8	5.8	5.6	5.6	5	5	91	91	<0.2	<0.2	1.5	1.5									
5.9	0.4	16	28.0	28.0	7.7	7.7	15.7	16.5	73.9	74.0	5.3	5.3	5.8	5.8	4	4	92	92	<0.2	<0.2	1.5	1.4									
5.9	0.4	16	28.0	28.0	7.7	7.7	17.4	16.5	74.1	74.1	5.3	5.3	5.8	5.8	5	5	92	92	<0.2	<0.2	1.4	1.4									
IM4	Cloudy	Rough	09:10	7.1	Surface	1.0	1.0	9	28.1	28.1	7.7	7.7	14.2	14.2	83.7	83.7	6.0	5.9	5.1	5.4	4	5	83	83	87	819708	804627	<0.2	<0.2	1.2	1.3
						1.0	1.0	9	28.1	28.1	7.7	7.7	14.2	14.2	83.7	83.7	6.0	6.0	5.1	5.1	5	5	83	83				<0.2	<0.2	1.3	1.3
						3.6	0.8	4	28.1	28.1	7.7	7.7	14.4	14.4	80.1	80.0	5.8	5.8	5.4	5.4	4	4	87	87				<0.2	<0.2	1.3	1.3
					3.6	0.9	4	28.1	28.1	7.7	7.7	14.4	14.4	79.9	79.9	5.8	5.8	5.5	5.5	4	4	87	87	<0.2				<0.2	1.3	1.3	
					6.1	0.6	336	27.9	27.9	7.6	7.6	15.7	15.8	72.0	71.7	5.2	5.2	5.8	5.8	5	5	91	91	<0.2				<0.2	1.3	1.3	
					6.1	0.6	350	27.8	27.8	7.6	7.6	15.8	15.8	71.3	71.3	5.1	5.1	5.9	5.9	5	5	91	91	<0.2				<0.2	1.3	1.3	
					1.0	1.0	17	28.2	28.2	7.7	7.7	14.4	14.4	80.9	80.7	5.8	5.8	5.3	5.3	5	5	84	84	<0.2				<0.2	1.4	1.3	
					1.0	1.0	18	28.2	28.2	7.7	7.7	14.5	14.4	80.4	80.4	5.8	5.8	5.3	5.3	4	4	84	84	<0.2				<0.2	1.3	1.3	
					3.7	0.9	11	28.1	28.1	7.7	7.7	14.7	14.7	78.8	78.6	5.7	5.7	8.2	8.2	5	5	88	88	<0.2				<0.2	1.4	1.4	
3.7	1.0	12	28.1	28.1	7.7	7.7	14.7	14.7	78.4	78.4	5.7	5.7	8.2	8.2	4	4	88	88	<0.2	<0.2	1.3	1.3									
6.3	0.7	12	28.0	28.0	7.7	7.7	16.3	16.3	72.5	72.5	5.2	5.2	10.4	10.4	4	4	91	91	<0.2	<0.2	1.3	1.3									
6.3	0.7	12	27.9	27.9	7.7	7.7	16.3	16.3	72.4	72.4	5.2	5.2	10.4	10.4	5	5	91	91	<0.2	<0.2	1.4	1.4									
IM6	Cloudy	Rough	09:23	8.0	Surface	1.0	0.6	9	28.0	28.0	7.7	7.7	17.1	17.0	72.6	72.6	5.2	5.1	4.9	20	19	83	88	89	821083	805831	<0.2	<0.2	1.2	1.2	
						1.0	0.7	9	28.0	28.0	7.7	7.7	17.0	17.0	72.6	72.6	5.2	4.9	4.9	20	19	88	88				<0.2	<0.2	1.2	1.2	
						4.0	0.5	51	27.9	27.9	7.7	7.7	17.6	17.5	70.5	70.7	5.0	5.0	8.6	8.7	21	20	88				88	<0.2	<0.2	1.2	1.2
					4.0	0.5	51	27.9	27.9	7.7	7.7	17.5	17.5	70.8	70.7	5.0	5.0	8.7	8.7	20	20	88	88				<0.2	<0.2	1.3	1.3	
					7.0	0.5	76	27.9	27.9	7.7	7.7	17.8																			

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

Water Quality Monitoring Results on 06 July 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	09:15	7.8	Surface	1.0	0.3	266	28.9	28.9	7.8	7.8	14.0	14.0	77.0	76.9	5.5	7.5	11	85	88	822100	808823	<0.2	2.0	<0.2	2.0				
						1.0	0.4	269	28.9	7.8	7.8	14.0	14.0	76.7	75.5	5.5	7.5	11	86	88	<0.2	2.1									
						3.9	0.3	281	28.8	7.8	7.8	14.1	14.1	75.0	75.0	5.4	8.8	11	88	88	<0.2	2.0									
					Middle	3.9	0.3	290	28.8	7.8	7.8	14.1	14.1	75.0	75.0	5.4	8.8	11	90	90	<0.2	2.1									
						6.8	0.3	261	28.8	7.8	7.8	14.1	14.1	75.4	75.5	5.4	9.3	12	91	90	<0.2	2.0									
						6.8	0.3	281	28.8	7.8	7.8	14.1	14.1	75.5	75.4	5.4	9.3	11	90	90	<0.2	2.1									
					Bottom	1.0	0.7	310	28.9	7.8	7.8	13.4	13.4	76.0	75.9	5.4	4.3	6	87	88	<0.2	1.9									
						1.0	0.8	311	28.9	7.8	7.8	13.4	13.4	75.8	75.8	5.4	4.3	5	86	88	<0.2	1.9									
						4.0	0.8	300	28.8	7.8	7.8	13.7	13.7	74.6	74.6	5.3	7.2	5	88	88	<0.2	1.9									
IM10	Cloudy	Moderate	09:09	8.0	Surface	1.0	0.8	311	28.9	28.8	7.8	7.8	13.7	13.7	74.5	74.6	5.3	7.2	6.8	5	88	88	822380	809790	<0.2	2.0	<0.2	2.0			
						4.0	0.8	318	28.8	7.8	7.8	13.7	13.7	74.5	74.5	5.3	7.2	5	88	88	<0.2	2.0									
						7.0	0.5	300	28.5	7.8	7.8	17.1	17.1	68.2	68.3	4.8	8.6	5	90	90	<0.2	2.0									
					Middle	7.0	0.5	324	28.5	7.8	7.8	17.1	17.1	68.3	68.3	4.8	8.6	6	90	90	<0.2	2.1									
						1.0	0.5	300	28.9	28.9	7.8	7.8	13.3	13.3	79.4	79.5	5.7	3.5	4	86	88	<0.2	2.0								
						1.0	0.6	325	28.9	28.9	7.8	7.8	13.3	13.3	79.5	79.5	5.7	3.5	4	85	88	<0.2	2.2								
					Bottom	3.9	0.6	296	28.7	28.7	7.8	7.8	15.6	15.6	73.6	73.6	5.2	8.4	4	88	88	<0.2	2.0								
						3.9	0.6	311	28.6	28.6	7.8	7.8	15.6	15.6	73.6	73.6	5.2	8.6	5	89	88	<0.2	2.1								
						6.8	0.3	298	28.5	28.5	7.8	7.8	17.3	17.3	70.2	70.3	5.0	9.8	6	90	90	<0.2	2.1								
IM11	Cloudy	Moderate	08:58	7.8	Surface	1.0	0.6	311	28.9	28.9	7.8	7.8	17.3	17.3	70.4	70.3	5.0	9.8	5	88	88	822041	811477	<0.2	2.0	<0.2	2.1				
						1.0	0.6	325	28.9	28.9	7.8	7.8	13.3	13.3	79.5	79.5	5.7	3.5	4	85	88	<0.2	2.2								
						3.9	0.6	296	28.7	28.7	7.8	7.8	15.6	15.6	73.6	73.6	5.2	8.6	5	89	88	<0.2	2.1								
					Middle	3.9	0.6	311	28.6	28.6	7.8	7.8	15.6	15.6	73.6	73.6	5.2	8.6	5	89	88	<0.2	2.0								
						6.8	0.3	298	28.5	28.5	7.8	7.8	17.3	17.3	70.2	70.3	5.0	9.8	6	90	90	<0.2	2.1								
						6.8	0.3	302	28.5	28.5	7.8	7.8	17.3	17.3	70.4	70.3	5.0	9.8	5	90	90	<0.2	2.0								
					Bottom	1.0	0.6	282	28.9	28.9	7.8	7.8	12.5	12.5	77.8	77.8	5.6	3.4	4	86	88	<0.2	2.0								
						1.0	0.6	286	28.9	28.9	7.8	7.8	12.5	12.5	77.7	77.7	5.6	3.4	3	85	88	<0.2	2.0								
						4.1	0.7	281	28.6	28.6	7.8	7.8	15.7	15.7	71.2	71.2	5.1	11.4	4	88	88	<0.2	1.9								
IM12	Cloudy	Moderate	08:54	8.2	Surface	4.1	0.8	318	28.8	28.8	7.8	7.8	19.3	19.3	60.9	60.9	4.3	8.4	7.8	4	88	88	821454	812060	<0.2	2.0	<0.2	2.0			
						4.1	0.8	302	28.6	28.6	7.8	7.8	15.7	15.7	71.2	71.2	5.1	11.7	5	89	88	<0.2	2.0								
						7.2	0.2	276	28.2	28.3	7.8	7.8	19.3	19.3	60.9	60.8	4.3	8.4	4	90	90	<0.2	2.0								
					Middle	7.2	0.2	280	28.3	28.3	7.8	7.8	19.3	19.3	60.8	60.8	4.3	8.4	4	90	90	<0.2	2.0								
						1.0	-	-	28.9	28.9	7.8	7.8	12.6	12.6	78.9	78.9	5.7	3.0	5	-	-	-	-	819977	812658	-			-		
						1.0	-	-	28.9	28.9	7.8	7.8	12.6	12.6	78.8	78.8	5.7	3.0	5	-	-	-	-	-	-	-			-		
					Bottom	2.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-
						2.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-
						4.2	-	-	28.8	28.8	7.8	7.8	14.7	14.7	74.8	74.8	5.3	4.4	4	-	-	-	-	-	-	-			-	-	
SR2	Cloudy	Moderate	08:25	4.7	Surface	1.0	0.2	186	28.9	28.9	7.8	7.8	11.7	11.7	79.5	79.5	5.7	3.7	6.3	4	85	88	821452	814150	<0.2	2.1	<0.2	2.1			
						1.0	0.2	192	28.9	28.9	7.8	7.8	11.7	11.7	79.4	79.5	5.7	3.9	4	86	88	<0.2	2.1								
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-
						3.7	0.1	316	28.5	28.5	7.8	7.8	16.8	16.8	70.1	70.2	5.0	8.8	4	89	88	<0.2	2.1								
					Bottom	3.7	0.2	338	28.5	28.5	7.8	7.8	16.8	16.8	70.2	70.2	5.0	8.8	5	90	90	<0.2	2.2								
						1.0	0.2	343	29.1	29.1	7.8	7.8	12.1	12.1	82.2	82.2	5.9	3.6	5	-	-	-	-	-	-	-			-	-	
						1.0	0.2	316	29.1	29.1	7.8	7.8	12.1	12.1	82.1	82.2	5.9	3.6	5	-	-	-	-	-	-	-			-	-	
SR3	Cloudy	Moderate	09:25	8.6	Surface	4.3	0.2	299	28.9	28.9	7.8	7.8	12.8	12.8	76.6	76.6	5.5	5.8	5.7	5	-	-	-	-	-	-					
						4.3	0.2	322	28.9	28.9	7.8	7.8	12.8	12.8	76.5	76.6	5.5	6.0	4	-	-	-	-	-	-	-					
						7.6	0.1	20	28.9	28.9	7.8	7.8	13.7	13.7	78.3	78.3	5.6	7.7	4	-	-	-	-	-	-	-					
					Middle	7.6	0.1	20	28.9	28.9	7.8	7.8	13.7	13.7	78.3	78.3	5.6	7.7	4	-	-	-	-	-	-	-	-				
						1.0	0.1	231	28.1	28.1	7.6	7.6	14.9	14.9	77.9	77.9	5.6	8.1	9	-	-	-	-	-	-	-	-				
						1.0	0.1	232	28.1	28.1	7.6	7.6	14.9	14.9	77.7	77.8	5.6	8.1	10	-	-	-	-	-	-	-	-				
					Bottom	4.6	0.1	263	28.0	28.0	7.6	7.6	16.1	16.1	71.2	71.2	5.1	11.3	10	-	-	-	-	-	-	-	-				
						4.6	0.1	274	28.0	28.0	7.6	7.6	16.1	16.1	71.1	71.2	5.1	11.4	10	-	-	-	-	-	-	-					
						8.1	0.0	194	27.5	27.5	7.6	7.6	21.0	21.0	54.5	54.7	3.8	12.7	10	-	-	-	-	-	-	-					
SR5A	Cloudy	Moderate	07:31	3.5	Surface	1.0	0.3	271	28.3	28.3	7.6	7.6	16.2	16.2	80.0	80.0	5.7	7.5	7.7	19	-	-	-	-	-						
						1.0	0.3	295	28.3	28.3	7.6	7.6	16.2	16.2	79.9	79.9	5.7	7.4	18	-	-	-	-	-	-						
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
						2.5	0.2	267	28.3	28.3	7.6	7.6	16.2	16.2	80.0	80.1	5.7	7.9	18	-	-	-	-	-	-						
					Bottom	2.5	0.3	282	28.3	28.3	7.6	7.6	16.2	16.2	80.1	80.1	5.7	7.8	17	-	-	-	-	-	-						
						1.0	0.0	222	28.3	28.3	7.6	7.6	14.4	14.4	79.0	79.0	5.7	4.8	7	-	-	-	-	-	-						
						1.0	0.0	229	28.3	28.3	7.6	7.6	14.4	14.4	79.0	79.0	5.7	4.9	6	-	-	-	-	-							

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

Water Quality Monitoring

Water Quality Monitoring Results on 09 July 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	Rough	18:39	7.6	Surface	1.0	0.2	119	28.5	28.5	7.8	7.8	12.4	12.4	85.3	85.2	6.2	6.2	4.8	4.8	4	4	83	83	87	815628	804240	<0.2	1.3	1.3	1.3					
						1.0	0.2	124	28.4	7.8	7.8	12.4	12.4	85.0	85.0	6.2	6.2	4.9	4.9	4	4	83	83	87	815628	804240	<0.2	1.3	1.3	1.3						
						3.8	0.2	150	28.3	28.3	7.7	7.7	13.6	13.6	83.9	83.9	6.1	6.1	5.3	5.3	5	5	88	88	87	815628	804240	<0.2	1.2	1.3	1.3					
					Middle	3.8	0.2	163	28.3	28.3	7.7	7.7	13.6	13.6	83.8	83.8	6.1	6.1	5.4	5.4	6	6	88	88	87	815628	804240	<0.2	1.2	1.3	1.3					
						6.6	0.2	141	28.3	28.3	7.7	7.7	13.8	13.8	83.4	83.4	6.0	6.0	9.3	9.3	7	7	91	91	87	815628	804240	<0.2	1.2	1.3	1.3					
						6.6	0.3	143	28.3	28.3	7.7	7.7	13.8	13.8	83.3	83.3	6.0	6.0	9.4	9.4	6	6	91	91	87	815628	804240	<0.2	1.2	1.3	1.3					
					C2	Cloudy	Moderate	16:46	11.2	Surface	1.0	0.3	168	29.3	29.3	7.9	7.9	8.8	8.8	82.3	82.3	6.0	6.0	4.5	4.5	8	8	84	84	87	825691	806966	<0.2	1.6	1.5	1.5
											1.0	0.3	184	29.3	29.3	7.9	7.9	8.8	8.8	82.2	82.2	6.0	6.0	4.4	4.4	7	7	85	85	87	825691	806966	<0.2	1.6	1.5	1.5
											5.6	0.2	163	28.6	28.6	7.8	7.8	16.7	16.7	57.4	57.3	4.1	4.1	8.0	8.0	9	9	87	87	87	825691	806966	<0.2	1.6	1.6	1.6
Middle	5.6	0.2	173	28.5						28.5	7.8	7.8	16.7	16.7	57.1	57.3	4.0	4.0	8.0	8.0	8	8	88	88	87	825691	806966	<0.2	1.6	1.6	1.6					
	10.2	0.2	200	27.9						27.9	7.8	7.8	21.3	21.3	46.4	46.5	3.2	3.2	7.2	7.2	7	7	90	90	87	825691	806966	<0.2	1.5	1.5	1.5					
	10.2	0.2	211	27.9						27.9	7.8	7.8	21.3	21.3	46.5	46.5	3.2	3.2	7.2	7.2	7	7	90	90	87	825691	806966	<0.2	1.4	1.4	1.4					
C3	Cloudy	Moderate	18:50	11.2						Surface	1.0	0.2	146	28.8	28.8	7.9	7.9	14.5	14.5	72.3	72.3	5.2	5.2	2.9	2.9	7	7	85	85	88	822108	817814	<0.2	1.5	1.5	1.5
											1.0	0.2	159	28.8	28.8	7.9	7.9	14.5	14.5	72.2	72.2	5.2	5.2	2.9	2.9	8	8	86	86	88	822108	817814	<0.2	1.5	1.5	1.5
											5.6	0.1	116	28.4	28.4	7.9	7.9	16.7	16.7	66.6	66.6	4.7	4.7	3.3	3.3	8	8	87	87	88	822108	817814	<0.2	1.4	1.4	1.4
					Middle	5.6	0.1	124	28.3	28.3	7.9	7.9	16.7	16.7	66.5	66.6	4.7	4.7	3.5	3.5	8	8	87	87	88	822108	817814	<0.2	1.3	1.3	1.3					
						10.2	0.2	109	27.8	27.8	7.9	7.9	22.0	22.0	60.0	60.1	4.2	4.2	4.3	4.3	9	9	90	90	87	822108	817814	<0.2	1.4	1.4	1.4					
						10.2	0.2	111	27.7	27.7	7.9	7.9	22.0	22.0	60.1	60.1	4.2	4.2	4.1	4.1	10	10	91	91	87	822108	817814	<0.2	1.4	1.4	1.4					
					IM1	Cloudy	Rough	17:55	4.2	Surface	1.0	0.3	100	28.4	28.4	7.8	7.8	11.7	11.8	86.7	86.6	6.3	6.3	4.1	4.1	6	6	79	79	86	817969	807121	<0.2	1.5	1.6	1.6
											1.0	0.3	112	28.4	28.4	7.8	7.8	11.8	11.8	86.5	86.5	6.3	6.3	4.1	4.1	6	6	81	81	86	817969	807121	<0.2	1.6	1.6	1.6
											-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Middle	-	-	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	3.2	0.4	149	28.4						28.4	7.8	7.8	12.1	12.1	85.3	85.2	6.2	6.2	5.2	5.2	5	5	92	92	86	817969	807121	<0.2	1.6	1.6	1.6					
	3.2	0.4	136	28.3						28.3	7.8	7.8	12.1	12.1	85.0	85.0	6.2	6.2	5.3	5.3	6	6	92	92	86	817969	807121	<0.2	1.5	1.5	1.5					
IM2	Cloudy	Rough	17:46	7.7						Surface	1.0	0.2	187	28.4	28.4	7.8	7.7	11.4	11.4	84.8	84.7	6.2	6.2	4.4	4.4	4	4	83	83	88	818170	806153	<0.2	1.0	1.2	1.2
											1.0	0.2	189	28.4	28.4	7.7	7.7	11.4	11.4	84.5	84.5	6.2	6.2	4.4	4.4	5	5	84	84	88	818170	806153	<0.2	1.2	1.2	1.2
											3.9	0.4	155	28.4	28.4	7.7	7.7	12.2	12.1	81.6	81.4	5.9	5.9	7.5	7.5	5	5	88	88	87	818170	806153	<0.2	1.2	1.3	1.3
					Middle	3.9	0.4	136	28.4	28.4	7.7	7.7	12.0	12.1	81.2	81.4	5.9	5.9	7.5	7.5	6	6	89	89	87	818170	806153	<0.2	1.2	1.3	1.3					
						6.7	0.3	203	27.9	27.9	7.7	7.6	15.4	15.5	74.8	72.4	5.4	5.4	10.2	10.2	5	5	91	91	87	818170	806153	<0.2	1.3	1.3	1.3					
						6.7	0.3	211	27.9	27.9	7.6	7.6	15.6	15.5	70.0	72.4	5.0	5.0	10.3	10.3	6	6	92	92	87	818170	806153	<0.2	1.2	1.2	1.2					
					IM3	Cloudy	Rough	17:39	7.6	Surface	1.0	0.1	186	28.5	28.5	7.8	7.7	11.8	12.6	84.4	83.9	6.1	6.0	3.2	3.2	7	6	83	88	88	818768	805605	<0.2	1.2	1.2	1.2
											1.0	0.1	188	28.4	28.4	7.7	7.7	13.5	12.7	83.4	83.0	6.0	6.0	4.5	4.5	6	6	88	88	88	818768	805605	<0.2	1.3	1.3	1.3
											3.8	0.2	162	28.4	28.4	7.7	7.7	13.5	12.7	83.0	82.1	6.0	6.0	4.5	4.5	6	6	88	88	88	818768	805605	<0.2	1.2	1.2	1.2
Middle	3.8	0.2	164	28.4						28.4	7.7	7.7	11.9	12.7	81.2	82.1	5.9	5.9	4.5	4.5	6	6	88	88	88	818768	805605	<0.2	1.2	1.2	1.2					
	6.6	0.1	203	28.3						28.3	7.7	7.7	12.7	12.5	79.3	78.8	5.8	5.8	7.7	7.7	7	7	91	91	87	818768	805605	<0.2	1.2	1.2	1.2					
	6.6	0.2	208	28.3						28.3	7.7	7.7	12.4	12.5	78.2	78.8	5.7	5.7	7.7	7.7	6	6	91	91	87	818768	805605	<0.2	1.2	1.2	1.2					
IM4	Cloudy	Rough	17:26	8.1						Surface	1.0	0.4	169	28.3	28.3	7.7	7.7	14.9	14.9	80.6	80.5	5.8	5.8	3.7	3.7	6	5	83	83	87	819713	804594	<0.2	1.4	1.2	1.2
											1.0	0.4	159	28.2	28.2	7.7	7.7	14.9	14.9	80.3	80.5	5.8	5.8	3.7	3.7	5	5	83	83	87	819713	804594	<0.2	1.2	1.2	1.2
											4.1	0.3	147	28.1	28.1	7.7	7.7	15.2	15.2	76.0	76.2	5.5	5.5	4.5	4.5	7	7	88	88	87	819713	804594	<0.2	1.2	1.2	1.2
					Middle	4.1	0.3	139	28.1	28.1	7.7	7.7	15.2	15.2	76.3	76.2	5.5	5.5	4.5	4.5	6	6	88	88	87	819713	804594	<0.2	1.2	1.2	1.2					
						7.1	0.4	204	28.1	28.1	7.7	7.7	16.5	16.5	77.3	77.6	5.5	5.5	5.8	5.8	7	7	91	91	87	819713	804594	<0.2	1.2	1.2	1.2					
						7.1	0.5	198	28.0	28.0	7.7	7.7	16.5	16.5	77.8	77.6	5.6	5.6	5.8	5.8	8	8	91	91	87	819713	804594	<0.2	1.2	1.2	1.2					
					IM5	Cloudy	Rough	17:15	8.3	Surface	1.0	0.9	224	28.6	28.6	7.7	7.7	12.9	12.9	82.8	82.7	6.0	6.0	3.6	3.6	5	6	87	87	87	820754	804867	<0.2	1.2	1.2	1.2
											1.0	1.0	238	28.5	28.5	7.7	7.7	12.9	12.9	82.6	82.7	6.0	6.0	3.6	3.6	6	6	87	87	87	820754	804867	<0.2	1.2	1.2	1.2
											4.2	0.8	203	28.5	28.5	7.7	7.7	12.9	12.9	82.2	82.0	5.9	5.9	4.8	4.8	6	6	88	88	87	820754	804867	<			

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

Water Quality Monitoring

Water Quality Monitoring Results on 09 July 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	Moderate	17:30	6.8	Surface	1.0	0.0	156	29.1	29.1	7.9	7.9	11.9	11.9	78.3	78.2	5.6	3.4	7	86	88	822099	808794	<0.2	1.8	<0.2	1.8							
						1.0	0.0	158	29.1	7.9	7.9	11.9	11.9	78.1	78.2	5.6	3.4	8	84	88	822099	808794	<0.2	1.8										
						3.4	0.2	148	29.0	7.9	7.9	12.2	12.2	76.1	76.1	5.5	3.9	6	87	88	822099	808794	<0.2	1.8										
					Middle	3.4	0.2	143	29.0	7.9	7.9	12.2	12.2	76.1	76.1	5.5	4.0	6	89	88	822099	808794	<0.2	1.6										
						5.8	0.2	163	28.8	7.9	7.9	15.7	15.7	68.8	68.9	4.9	4.6	5	89	88	822099	808794	<0.2	1.8										
						5.8	0.2	169	28.8	7.9	7.9	15.7	15.7	68.9	68.9	4.9	4.5	6	91	88	822099	808794	<0.2	1.9										
					IM10	Cloudy	Moderate	17:37	7.6	Surface	1.0	0.4	144	29.1	29.1	7.9	7.9	11.7	11.8	80.2	79.8	5.8	3.4	6	83			88	822404	809817	<0.2	1.6	<0.2	1.5
											1.0	0.4	132	29.1	7.9	7.9	11.8	11.8	79.3	79.3	5.7	3.4	6	85	88			822404	809817	<0.2	1.6			
											3.8	0.3	111	29.0	7.9	7.9	12.1	12.1	76.6	76.5	5.5	3.9	6	88	88			822404	809817	<0.2	1.4			
Middle	3.8	0.3	118	29.0						7.9	7.9	12.1	12.1	76.3	76.3	5.5	4.0	6	88	88	822404	809817	<0.2	1.4										
	6.6	0.0	141	28.7						7.9	7.9	16.3	16.3	66.0	66.1	4.7	5.7	7	90	88	822404	809817	<0.2	1.4										
	6.6	0.0	145	28.7						7.9	7.9	16.3	16.3	66.1	66.1	4.7	5.6	6	92	88	822404	809817	<0.2	1.3										
IM11	Cloudy	Moderate	17:48	8.1						Surface	1.0	0.5	104	29.1	29.1	7.9	7.9	11.7	11.7	77.5	77.4	5.6	3.2	7	86	88	822052	811436	<0.2	1.5	<0.2	1.5		
											1.0	0.5	113	29.1	7.9	7.9	11.7	11.7	77.3	77.3	5.6	3.2	6	83	88	822052	811436	<0.2	1.6					
											4.1	0.4	103	29.0	7.8	7.8	13.9	13.8	71.5	71.6	5.1	3.3	7	88	88	822052	811436	<0.2	1.6					
					Middle	4.1	0.4	104	28.9	7.8	7.8	13.8	13.8	71.6	71.6	5.1	3.5	6	90	88	822052	811436	<0.2	1.6										
						7.1	0.1	108	28.6	7.8	7.8	16.4	16.4	66.6	66.7	4.7	5.6	7	90	88	822052	811436	<0.2	1.4										
						7.1	0.1	111	28.6	7.8	7.8	16.5	16.4	66.7	66.7	4.7	5.7	6	92	88	822052	811436	<0.2	1.5										
					IM12	Cloudy	Moderate	17:57	8.2	Surface	1.0	0.5	102	29.0	29.0	7.9	7.9	11.9	11.9	78.4	78.3	5.6	3.6	6	86	88	821466	812056	<0.2	1.5			<0.2	1.6
											1.0	0.5	102	29.0	7.9	7.9	11.9	11.9	78.2	78.2	5.6	3.6	6	84	88	821466	812056	<0.2	1.5					
											4.1	0.3	92	28.9	7.8	7.8	13.9	13.9	71.3	71.2	5.1	4.1	6	87	88	821466	812056	<0.2	1.5					
Middle	4.1	0.4	95	28.9						7.8	7.8	13.9	13.9	71.1	71.1	5.1	4.2	6	88	88	821466	812056	<0.2	1.6										
	7.2	0.1	95	28.8						7.8	7.8	15.3	15.3	68.0	68.0	4.8	5.2	6	90	88	821466	812056	<0.2	1.6										
	7.2	0.1	97	28.8						7.8	7.8	15.3	15.3	68.0	68.0	4.8	5.2	6	90	88	821466	812056	<0.2	1.6										
SR1A	Cloudy	Moderate	18:13	5.2						Surface	1.0	-	-	29.0	29.0	7.9	7.9	12.5	12.5	79.9	79.8	5.7	3.6	5	-	-	819982	812661	-	-	-	-		
											1.0	-	-	29.0	29.0	7.9	7.9	12.5	12.5	79.7	79.7	5.7	3.7	5	-	-	819982	812661	-	-				
											2.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	819982	812661				
					Middle	2.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	819982	812661	-	-							
						4.2	-	-	28.9	28.9	7.9	7.9	14.0	13.9	74.5	74.5	5.3	4.5	7	-	-	-	-	819982	812661	-	-							
						4.2	-	-	28.9	28.9	7.9	7.9	13.9	13.9	74.5	74.5	5.3	4.4	6	-	-	-	-	819982	812661	-	-							
					SR2	Cloudy	Moderate	18:25	4.6	Surface	1.0	0.5	82	29.0	29.0	7.9	7.9	12.6	12.6	80.7	79.2	5.8	3.6	6	84	88	821485	814165	<0.2	1.8			<0.2	1.7
											1.0	0.6	86	29.0	7.9	7.9	12.6	12.6	77.7	77.7	5.6	3.7	6	86	88	821485	814165	<0.2	1.7					
											-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	821485	814165				
Middle	-	-	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	821485	814165	<0.2	1.7							
	3.6	0.4	82	29.0						7.9	7.9	14.0	14.0	76.6	76.7	5.5	4.0	5	90	88	821485	814165	<0.2	1.7										
	3.6	0.4	82	29.0						7.9	7.9	14.0	14.0	76.8	76.8	5.5	4.0	6	90	88	821485	814165	<0.2	1.7										
SR3	Cloudy	Moderate	17:19	8.4						Surface	1.0	0.2	179	29.1	29.1	7.9	7.9	12.3	12.3	78.3	78.2	5.6	3.5	7	-	-	822130	807558	-	-	-	-		
											1.0	0.3	184	29.1	7.9	7.9	12.3	12.3	78.1	78.1	5.6	3.5	8	-	-	822130	807558	-	-					
											4.2	0.2	165	29.0	7.9	7.9	12.4	12.4	74.4	74.3	5.3	4.8	8	-	-	822130	807558	-	-					
					Middle	4.2	0.2	169	29.0	7.9	7.9	12.5	12.4	74.1	74.1	5.3	4.8	7	-	-	822130	807558	-	-										
						7.4	0.2	170	28.4	7.8	7.8	18.5	18.5	57.9	58.1	4.1	8.8	6	-	-	822130	807558	-	-										
						7.4	0.2	161	28.4	7.8	7.8	18.5	18.5	58.3	58.1	4.1	8.8	6	-	-	822130	807558	-	-										
					SR4A	Cloudy	Rough	19:07	8.9	Surface	1.0	0.5	72	28.5	28.5	7.7	7.7	14.6	14.6	83.9	83.5	6.0	4.1	6	-	-	817203	807828	-	-			-	-
											1.0	0.6	77	28.4	7.7	7.7	14.7	14.6	83.1	83.1	6.0	4.1	5	-	-	817203	807828	-	-					
											4.5	0.5	97	28.4	7.7	7.7	14.7	14.7	82.9	82.8	5.9	3.7	6	-	-	817203	807828	-	-					
Middle	4.5	0.5	105	28.4						7.7	7.7	14.8	14.7	82.7	82.8	5.9	3.6	6	-	-	817203	807828	-	-										
	7.9	0.3	131	28.4						7.7	7.7	14.9	14.9	82.5	82.5	5.9	5.8	6	-	-	817203	807828	-	-										
	7.9	0.3	132	28.4						7.7	7.7	14.9	14.9	82.5	82.5	5.9	5.8	6	-	-	817203	807828	-	-										
SR5A	Cloudy	Moderate	19:22	3.7						Surface	1.0	0.2	149	28.5	28.5	7.7	7.7	15.7	15.7	81.6	81.6	5.8	3.4	8	-	-	816585	810702	-	-	-	-		
											1.0	0.2	155	28.5	7.7	7.7	15.7	15.7	81.5	81.5	5.8	3.5	9	-	-	816585	810702	-	-					
											-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	816585	810702				
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	816585	810702	-	-							
						2.7	0.1	85	28.5	7.7	7.7	15.7	15.7	81.4	81.5	5.8	6.6	8	-	-	816585	810702	-	-										
						2.7	0.1	88	28.5	7.7	7.7	15.7	15.7	81.5	81.5	5.8	6.5	8	-	-	816585	810702	-	-										
					SR6	Cloudy	Moderate	19:47	3.8	Surface	1.0	0.0	116	28.5	28.5	7.7	7.7	14.6	14.6	80.0	79.9	5.7	4.5	4	-	-	817889	814652	-	-			-	-
											1.0	0.0	123	28.4	7.7	7.7	14.7	14.6	79.8	79.8	5.7	4.5	3	-	-	817889	814652	-	-					
											-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	817889	814652				
Middle	-	-	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	817889	814652	-	-							
	2.8	0.0	40	28.4						7.7	7.7	14.9	14.9	80.3	80.5	5.8	5.0	4	-	-	817889	814652												

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

Water Quality Monitoring Results on 09 July 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	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA										
IM9	Cloudy	Moderate	12:00	7.2	Surface	1.0	0.1	328	29.3	29.3	7.9	7.9	11.1	11.1	83.0	82.9	6.0	3.2	4	4	84	88	88	88	88	822080	808829	<0.2	1.5	<0.2	1.5								
						1.0	0.1	356	29.2	29.1	7.9	7.9	11.2	11.6	82.7	79.8	6.0	3.1	4	4	86	88	88	88				<0.2	1.5	<0.2	1.5								
						3.6	0.1	267	29.1	29.1	7.9	7.9	11.6	11.6	79.9	79.8	5.8	3.5	4	4	88	87	87	87				<0.2	1.4	<0.2	1.4								
					Middle	3.6	0.1	280	29.0	29.1	7.9	7.9	11.6	11.6	79.6	79.8	5.7	3.7	3	3	87	87	87	87				<0.2	1.4	<0.2	1.4								
						6.2	0.2	308	28.9	28.9	7.8	7.8	14.7	14.7	69.0	69.0	4.9	6.4	5	5	90	90	90	90				<0.2	1.4	<0.2	1.4								
						6.2	0.3	321	28.9	28.9	7.8	7.8	14.7	14.7	69.0	69.0	4.9	6.4	4	4	91	91	91	91				<0.2	1.4	<0.2	1.4								
					IM10	Cloudy	Moderate	11:53	7.7	Surface	1.0	0.3	319	29.1	29.1	7.9	7.9	12.1	12.2	79.8	79.6	5.7	2.9	4				4	85	85	88	88	88	822361	809796	<0.2	1.4	<0.2	1.4
											1.0	0.3	341	29.1	29.1	7.9	7.9	12.2	12.4	79.4	78.5	5.7	2.9	5				5	85	87	87	87				<0.2	1.4	<0.2	1.4
											3.9	0.3	311	29.1	29.1	7.9	7.9	12.4	12.4	78.5	78.5	5.6	3.0	4				4	87	90	90	90				<0.2	1.4	<0.2	1.4
Middle	3.9	0.3	328	29.1						29.1	7.9	7.9	12.4	12.4	78.5	78.5	5.6	3.0	4	4	87	90	90	90	<0.2	1.4	<0.2	1.4											
	6.7	0.3	310	29.0						29.0	7.8	7.8	14.1	14.2	71.2	71.3	5.1	4.2	4	4	90	90	90	90	<0.2	1.4	<0.2	1.4											
	6.7	0.3	334	28.9						29.0	7.9	7.8	14.2	14.2	71.3	71.3	5.1	4.2	5	5	88	88	88	88	<0.2	1.4	<0.2	1.4											
IM11	Cloudy	Moderate	11:43	7.5						Surface	1.0	0.2	326	29.2	29.2	7.9	7.9	12.5	12.5	80.0	79.8	5.7	2.8	4	4	85	86	88	88	88	822049	811466				<0.2	1.5	<0.2	1.5
											1.0	0.2	339	29.2	29.1	7.9	7.9	12.5	13.0	79.5	76.2	5.7	2.8	5	5	86	87	88	88							<0.2	1.5	<0.2	1.5
											3.8	0.3	275	29.1	29.1	7.9	7.9	13.0	13.0	76.1	76.2	5.4	2.8	5	5	87	88	88	88							<0.2	1.5	<0.2	1.5
					Middle	3.8	0.3	300	29.1	29.1	7.9	7.9	13.0	13.0	76.2	76.2	5.5	2.8	4	4	88	90	90	90	<0.2	1.5	<0.2	1.5											
						6.5	0.4	290	28.9	28.9	7.9	7.9	13.9	13.9	73.3	73.4	5.2	3.0	5	5	90	90	90	90	<0.2	1.5	<0.2	1.5											
						6.5	0.4	306	28.9	28.9	7.9	7.9	13.9	13.9	73.4	73.4	5.2	2.9	4	4	90	90	90	90	<0.2	1.6	<0.2	1.6											
					IM12	Cloudy	Moderate	11:34	8.3	Surface	1.0	0.3	289	29.1	29.1	7.9	7.9	13.1	13.1	76.3	76.3	5.5	3.1	5	5	86	85	88	88				88	821462	812028	<0.2	1.5	<0.2	1.4
											1.0	0.3	314	29.0	29.0	7.9	7.9	13.1	13.1	76.2	66.4	5.5	3.1	5	5	85	87	88	88							<0.2	1.5	<0.2	1.6
											4.2	0.5	266	28.5	28.4	7.9	7.9	14.7	14.7	66.7	66.4	4.8	4.9	6	5	87	88	88	88							<0.2	1.5	<0.2	1.6
Middle	4.2	0.5	270	28.3						28.4	7.9	7.9	14.7	14.7	66.1	66.1	4.7	4.9	5	5	88	90	90	90	<0.2	1.5	<0.2	1.6											
	7.3	0.3	292	27.6						27.6	7.8	7.8	22.4	22.4	56.1	56.2	3.9	8.0	5	5	90	90	90	90	<0.2	1.5	<0.2	1.5											
	7.3	0.3	292	27.6						27.6	7.8	7.8	22.4	22.4	56.3	56.3	3.9	8.0	4	4	90	90	90	90	<0.2	1.6	<0.2	1.6											
SR1A	Cloudy	Moderate	11:18	5.1						Surface	1.0	-	-	29.0	29.0	7.9	7.9	13.0	13.0	81.7	81.3	5.9	2.5	5	5	-	-	-	-	88	819977	812658				-	-	-	-
											1.0	-	-	29.0	29.0	7.9	7.9	13.0	13.0	80.9	81.3	5.8	2.7	6	6	-	-	-	-							-	-	-	-
											2.6	-	-	-	-	-	-	-	-	-	-	-	-	5.9	-	-	-	-	-							-	-	-	-
					Middle	2.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-											
						4.1	-	-	28.9	28.9	7.9	7.9	14.0	14.0	77.2	77.2	5.5	4.3	5	5	-	-	-	-	-	-	-	-											
						4.1	-	-	28.9	28.9	7.9	7.9	14.0	14.0	77.2	77.2	5.5	4.3	4	4	-	-	-	-	-	-	-	-											
					SR2	Cloudy	Moderate	11:10	4.8	Surface	1.0	0.1	163	28.9	28.9	7.9	7.9	12.7	12.7	80.3	80.1	5.8	3.6	4	4	85	86	88	88				88	821479	814154	<0.2	1.6	<0.2	1.6
											1.0	0.1	168	28.9	28.9	7.9	7.9	12.7	12.7	79.8	80.1	5.7	3.7	4	4	86	87	88	88							<0.2	1.6	<0.2	1.6
											-	-	-	-	-	-	-	-	-	-	-	-	-	5.8	-	-	-	-	-							<0.2	1.6	<0.2	1.6
Middle	-	-	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.2	1.6	<0.2	1.6											
	3.8	0.1	143	28.8						28.8	7.9	7.9	15.1	15.1	73.3	73.3	5.2	3.8	3	3	90	90	90	90	<0.2	1.7	<0.2	1.7											
	3.8	0.1	143	28.8						28.8	7.9	7.9	15.1	15.1	73.3	73.3	5.2	3.7	4	4	90	90	90	90	<0.2	1.6	<0.2	1.7											
SR3	Cloudy	Moderate	12:13	8.2						Surface	1.0	0.2	270	29.1	29.1	7.9	7.9	11.7	11.7	81.1	81.0	5.8	3.4	6	6	-	-	-	-	88	822134	807549				-	-	-	-
											1.0	0.2	280	29.1	29.1	7.9	7.9	11.7	11.7	80.8	79.1	5.8	3.4	6	6	-	-	-	-							-	-	-	-
											4.1	0.2	264	29.1	29.1	7.9	7.9	11.7	11.7	79.2	79.1	5.7	3.5	5	5	-	-	-	-							-	-	-	-
					Middle	4.1	0.2	271	29.1	29.1	7.9	7.9	11.7	11.7	79.0	79.1	5.7	3.7	5	5	-	-	-	-	-	-	-	-											
						7.2	0.1	318	28.6	28.6	7.9	7.9	17.3	17.3	63.9	64.1	4.5	7.0	5	5	-	-	-	-	-	-	-	-											
						7.2	0.1	336	28.6	28.6	7.9	7.9	17.3	17.3	64.3	64.1	4.5	7.0	4	4	-	-	-	-	-	-	-	-											
					SR4A	Cloudy	Moderate	10:57	9.8	Surface	1.0	0.2	252	28.3	28.3	7.7	7.7	13.6	13.6	79.5	79.4	5.7	4.9	6	6	-	-	-	-				88	817176	807830	-	-	-	-
											1.0	0.2	261	28.3	28.3	7.7	7.7	13.6	13.6	79.3	79.4	5.7	5.0	5	5	-	-	-	-							-	-	-	-
											4.9	0.2	265	26.6	26.5	7.6	7.6	25.7	26.2	72.5	72.6	5.2	6.2	8	8	-	-	-	-							-	-	-	-
Middle	4.9	0.2	289	26.4						26.4	7.6	7.6	26.7	26.2	72.6	72.6	5.2	6.2	6	6	-	-	-	-	-	-	-	-											
	8.8	0.0	252	26.4						26.4	7.6	7.6	26.7	26.7	70.6	70.6	5.0	7.7	12	12	-	-	-	-	-	-	-	-											
	8.8	0.0	267	26.4						26.4	7.6	7.6	26.7	26.7	70.5	70.5	5.0	7.7	13	13	-	-	-	-	-	-	-	-											
SR5A	Cloudy	Moderate	10:42	4.1						Surface	1.0	0.0	251	28.3	28.3	7.7	7.7	14.9	14.9	78.4	78.4	5.6	3.1	7	7	-	-	-	-	88	816576	810706				-	-	-	-
											1.0	0.0	264	28.3	28.3	7.7	7.7	14.9	14.9	78.4	78.4	5.6	3.1	6	6	-	-	-	-							-	-	-	-
											-	-	-	-	-	-	-	-	-	-	-	-	-	5.6	-	-	-	-	-							-	-	-	-
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-											
						3.1	0.0	314	28.1	28.1	7.6	7.6	15.6	15.6	76.1	76.2	5.5	4.2	8	8	-	-	-	-	-	-	-	-											
						3.1	0.0	317	28.1	28.1	7.7	7.6	15.6	15.6	76.2	76.2	5.5	4.2	8	8	-	-	-	-	-	-	-	-											
					SR6	Cloudy	Moderate	10:17	4.2	Surface	1.0	0.1	204	28.2	28.2	7.6	7.6	14.9	14.9	72.6	72.4	5.2	3.1	7	7	-	-	-	-				88	817922	814656	-	-	-	-
											1.0	0.1	204	28.2	28.2	7.6	7.6	14.9	14.9	72.1	72.4	5.2	3.1	6	6	-	-	-	-							-	-	-	-
											-	-	-	-	-	-	-	-	-	-	-	-	-	5.2	-	-	-	-	-							-	-	-	-
Middle	-	-	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-											
	3.2	0.0	263	28.1						28.1	7.5	7.5	15.9	15.9	70.5	70.6	5.0	5.1	5	5	-	-	-	-	-	-	-												

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

Water Quality Monitoring

Water Quality Monitoring Results on 11 July 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	09:56	7.0	Surface	1.0	0.4	132	28.9	28.9	7.8	7.8	10.2	10.2	76.7	76.7	5.6	3.7	2	84	87	822103	808819	<0.2	1.7	1.7										
						1.0	0.4	142	28.9	7.8	7.8	10.2	10.2	76.7	76.7	5.6	3.7	2	84	87	822103	808819	<0.2	1.7												
					Middle	3.5	0.3	123	28.9	28.9	7.8	7.8	10.9	10.8	76.0	76.0	5.5	2.8	3	88	87	822103	808819	<0.2	1.8											
						3.5	0.3	126	28.9	28.9	7.8	7.8	10.8	10.8	75.9	76.0	5.5	2.8	2	88	87	822103	808819	<0.2	1.7											
					Bottom	6.0	0.3	48	28.5	28.5	7.8	7.7	17.7	17.9	57.7	58.1	4.1	3.6	3	89	87	822103	808819	<0.2	1.8											
						6.0	0.3	51	28.5	28.5	7.7	7.7	18.1	17.9	58.4	58.1	4.1	3.5	3	90	87	822103	808819	<0.2	1.6											
IM10	Cloudy	Moderate	09:47	7.1	Surface	1.0	0.6	104	28.9	28.9	7.8	7.8	11.1	11.1	74.9	74.9	5.4	2.6	3	85	87	822377	809810	<0.2	1.7	1.9										
						1.0	0.6	111	28.9	28.9	7.8	7.8	11.1	11.1	74.8	74.9	5.4	2.5	3	85	87	822377	809810	<0.2	1.7											
					Middle	3.6	0.6	93	28.7	28.7	7.8	7.8	14.6	14.6	69.0	69.1	4.9	1.9	4	87	87	822377	809810	<0.2	1.7											
						3.6	0.6	98	28.7	28.7	7.8	7.8	14.6	14.6	69.2	69.1	4.9	1.9	3	88	87	822377	809810	<0.2	2.0											
					Bottom	6.1	0.4	93	27.8	27.9	7.8	7.8	20.1	20.1	49.9	50.1	3.5	6.3	2	89	87	822377	809810	<0.2	2.0											
						6.1	0.4	97	27.9	27.9	7.8	7.8	20.1	20.1	50.2	50.1	3.5	6.3	2	90	87	822377	809810	<0.2	2.0											
IM11	Cloudy	Moderate	09:34	8.5	Surface	1.0	0.6	111	28.9	28.9	7.9	7.9	11.2	11.2	76.4	76.5	5.5	2.6	3	86	88	822055	811456	<0.2	1.7	1.7										
						1.0	0.7	116	28.9	28.9	7.9	7.9	11.2	11.2	76.5	76.5	5.5	2.7	3	86	88	822055	811456	<0.2	1.7											
					Middle	4.3	0.6	99	28.2	28.2	7.8	7.8	18.3	18.3	57.4	57.5	4.0	3.1	4	88	88	822055	811456	<0.2	1.5											
						4.3	0.6	106	28.2	28.2	7.8	7.8	18.3	18.3	57.5	57.5	4.1	3.2	3	88	88	822055	811456	<0.2	1.8											
					Bottom	7.5	0.1	97	27.8	27.9	7.7	7.7	23.6	23.6	45.1	47.3	3.1	7.8	3	90	88	822055	811456	<0.2	1.7											
						7.5	0.2	98	27.9	27.9	7.7	7.7	23.5	23.5	49.5	47.3	3.4	8.2	4	90	88	822055	811456	<0.2	1.8											
IM12	Cloudy	Moderate	09:26	8.1	Surface	1.0	0.5	100	28.8	28.8	7.9	7.9	10.7	10.7	73.6	73.5	5.4	2.8	3	84	87	821436	812044	<0.2	1.7	1.7										
						1.0	0.5	107	28.8	28.8	7.9	7.9	10.7	10.7	73.3	73.5	5.3	2.8	3	85	87	821436	812044	<0.2	1.6											
					Middle	4.1	0.5	98	28.5	28.5	7.8	7.8	15.2	15.2	61.3	61.3	4.4	3.5	3	87	87	821436	812044	<0.2	1.5											
						4.1	0.5	106	28.4	28.5	7.8	7.8	15.3	15.2	61.2	61.3	4.4	3.4	3	87	87	821436	812044	<0.2	1.9											
					Bottom	7.1	0.1	154	28.1	28.1	7.8	7.8	18.2	18.3	50.9	50.8	3.6	4.4	3	88	87	821436	812044	<0.2	1.7											
						7.1	0.1	156	28.1	28.1	7.8	7.8	18.3	18.3	50.7	50.8	3.6	4.6	3	88	87	821436	812044	<0.2	1.7											
SR1A	Cloudy	Calm	09:02	5.3	Surface	1.0	-	-	28.8	28.8	7.9	7.9	9.8	9.8	76.6	76.6	5.6	3.2	4	-	-	819979	812663	-	-	-										
						1.0	-	-	28.8	28.8	7.9	7.9	9.8	9.8	76.5	76.6	5.6	3.2	3	-	-	819979	812663	-	-											
					Middle	2.7	-	-	-	-	-	-	-	-	-	-	-	5.6	-	4	-	-	819979	812663	-		-									
						2.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-	819979	812663		-	-								
					Bottom	4.3	-	-	28.3	28.3	7.8	7.8	15.1	15.2	61.6	61.5	4.4	6.0	4	-	-	-	-	819979	812663		-	-								
						4.3	-	-	28.3	28.3	7.8	7.8	15.2	15.2	61.4	61.5	4.4	6.7	4	-	-	-	-	819979	812663		-	-								
SR2	Cloudy	Moderate	08:49	4.6	Surface	1.0	0.2	121	29.0	29.0	7.8	7.8	9.3	9.3	76.7	76.8	5.6	3.5	3	85	87	821468	814157	<0.2	1.6	1.7										
						1.0	0.2	122	29.0	29.0	7.8	7.8	9.3	9.3	76.8	76.8	5.6	3.6	4	85	87	821468	814157	<0.2	1.6											
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	5.6	-	3	-	-	821468	814157		<0.2	1.5								
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-	821468	814157		<0.2	1.7								
					Bottom	3.6	0.5	118	28.8	28.8	7.8	7.8	11.3	11.3	70.9	70.9	5.1	3.5	3	88	87	821468	814157	<0.2	1.7											
						3.6	0.5	123	28.8	28.8	7.8	7.8	11.3	11.3	70.8	70.9	5.1	3.5	4	89	87	821468	814157	<0.2	1.7											
SR3	Cloudy	Moderate	10:07	8.3	Surface	1.0	0.6	196	28.7	28.7	7.8	7.8	11.9	11.9	67.6	67.5	4.9	3.8	4	-	-	822133	807589	-	-	-										
						1.0	0.6	214	28.7	28.7	7.8	7.8	11.9	11.9	67.4	67.5	4.9	3.9	4	-	-	822133	807589	-	-											
					Middle	4.2	0.3	210	28.3	28.3	7.8	7.8	16.4	16.4	57.1	57.1	4.1	4.3	4	-	-	-	-	822133	807589		-	-								
						4.2	0.3	219	28.3	28.3	7.8	7.8	16.4	16.4	57.0	57.1	4.1	4.3	5	-	-	-	-	822133	807589		-	-								
					Bottom	7.3	0.1	196	26.6	26.6	7.7	7.7	27.0	27.0	36.6	37.1	2.5	7.9	4	-	-	-	-	822133	807589		-	-								
						7.3	0.1	208	26.6	26.6	7.7	7.7	27.0	27.0	37.5	37.1	2.6	7.9	5	-	-	-	-	822133	807589		-	-								
SR4A	Cloudy	Moderate	09:20	8.8	Surface	1.0	0.8	229	28.0	28.1	7.7	7.7	12.6	12.6	67.9	67.7	4.9	4.3	4	-	-	817210	807792	-	-	-										
						1.0	0.8	231	28.1	28.1	7.7	7.7	12.6	12.6	67.5	67.7	4.9	4.3	4	-	-	817210	807792	-	-											
					Middle	4.4	0.8	230	25.6	25.6	7.6	7.6	29.5	29.5	29.1	29.2	2.0	7.1	5	-	-	-	-	817210	807792		-	-								
						4.4	0.8	243	25.6	25.6	7.6	7.6	29.5	29.3	29.3	29.2	2.0	7.2	4	-	-	-	-	817210	807792		-	-								
					Bottom	7.8	0.3	214	25.6	25.6	7.6	7.6	29.9	29.9	34.8	35.1	2.4	8.8	4	-	-	-	-	817210	807792		-	-								
						7.8	0.3	229	25.6	25.6	7.6	7.6	29.9	29.9	35.3	35.1	2.4	8.9	4	-	-	-	-	817210	807792		-	-								
SR5A	Cloudy	Moderate	09:44	4.8	Surface	1.0	0.6	232	27.9	28.0	7.7	7.7	12.3	12.3	77.8	77.6	5.7	4.6	4	-	-	816588	810710	-	-	-										
						1.0	0.6	232	27.9	28.0	7.7	7.7	12.3	12.3	77.4	77.6	5.7	4.9	3	-	-	816588	810710	-	-											
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	5.7	-	4	-	-	816588	810710		-	-								
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-	816588		810710	-	-							
					Bottom	3.8	0.4	226	27.2	27.3	7.6	7.6	21.0	20.1	53.0	55.3	3.8	5.8	4	-	-	-	-	816588	810710		-	-								
						3.8	0.4	242	27.3	27.3	7.6	7.6	19.2	20.1	57.5	55.3	4.1	5.8	4	-	-	-	-	816588	810710		-	-								
SR6	Cloudy	Moderate	10:14	4.2	Surface	1.0	0.6	234	28.2	28.2	7.6	7.6	12.3	12.3	77.0	76.6	5.6	6.9	3	-	-	817901	814675	-	-	-										
						1.0	0.6	238	28.1	28.1	7.6	7.6	12.3	12.3	77.2	76.6																				

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

Water Quality Monitoring

Water Quality Monitoring Results on 11 July 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	14:36	8.6	Surface	1.0	0.4	55	28.7	28.7	7.5	7.5	9.7	9.7	68.5	68.2	5.0	5.2	5	5	86	86	88	88	815623	804259	<0.2	1.6	1.7	1.7						
						1.0	0.4	55	28.7	28.7	7.5	7.5	9.7	9.7	67.9	68.0	5.0	6.0	5	6	86	86	88	88	815623	804259	<0.2	1.6	1.7	1.7						
					Middle	4.3	0.2	10	25.7	25.8	7.4	7.4	29.4	29.4	28.0	28.2	1.9	11.6	5	5	88	88	89	89	815623	804259	<0.2	1.7	1.7	1.7	1.7					
						4.3	0.2	10	25.8	25.8	7.4	7.4	29.4	29.4	28.0	28.2	2.0	11.2	5	5	88	88	89	89	815623	804259	<0.2	1.7	1.7	1.7	1.7					
					Bottom	7.6	0.3	17	25.3	25.3	7.4	7.4	31.1	31.1	25.2	25.4	1.7	9.9	6	6	90	90	90	90	815623	804259	<0.2	1.6	1.7	1.7	1.7					
						7.6	0.3	17	25.3	25.3	7.4	7.4	31.1	31.1	25.5	25.4	1.8	9.9	6	6	90	90	90	90	815623	804259	<0.2	1.6	1.7	1.7	1.7					
C2	Cloudy	Rough	13:18	10.3	Surface	1.0	0.8	183	30.0	30.0	7.8	7.8	3.9	3.9	76.9	76.9	5.7	11.5	10	10	80	80	85	85	825665	806928	<0.2	2.4	2.2	2.2						
						1.0	0.9	191	30.0	30.0	7.8	7.8	3.9	3.9	76.9	76.9	5.7	11.5	10	10	81	81	85	85	825665	806928	<0.2	2.4	2.2	2.2						
					Middle	5.2	0.3	166	28.0	28.0	7.7	7.7	19.6	19.6	48.2	48.4	3.4	3.3	12	12	84	84	89	89	825665	806928	<0.2	2.2	2.1	2.1	2.2					
						5.2	0.3	176	28.0	28.0	7.7	7.7	19.6	19.6	48.6	48.4	3.4	3.2	12	12	84	84	89	89	825665	806928	<0.2	2.2	2.1	2.1	2.2					
					Bottom	9.3	0.2	331	27.1	27.1	7.7	7.7	24.9	24.9	35.5	35.5	2.5	2.5	11	11	89	89	90	90	825665	806928	<0.2	2.0	2.0	2.0	2.0					
						9.3	0.2	349	27.0	27.1	7.7	7.7	25.0	24.9	35.5	35.5	2.5	2.5	11	11	90	90	90	90	825665	806928	<0.2	2.0	2.0	2.0	2.0					
C3	Cloudy	Moderate	15:07	11.7	Surface	1.0	0.2	238	29.1	29.1	7.9	7.9	12.3	12.3	79.8	79.7	5.7	1.9	3	3	81	81	85	85	822120	817780	<0.2	1.5	1.5	1.5	1.5					
						1.0	0.2	250	29.1	29.1	7.9	7.9	12.3	12.3	79.5	79.7	5.7	1.9	3	3	82	82	85	85	822120	817780	<0.2	1.5	1.5	1.5	1.5					
					Middle	5.9	0.1	215	26.5	26.5	7.8	7.8	27.1	27.1	34.6	34.6	2.4	2.0	3	3	84	84	85	85	822120	817780	<0.2	1.6	1.6	1.6	1.6					
						5.9	0.1	234	26.5	26.5	7.8	7.8	27.1	27.1	34.6	34.6	2.4	1.9	3	3	85	85	85	85	822120	817780	<0.2	1.4	1.4	1.4	1.4					
					Bottom	10.7	0.4	301	26.0	26.1	7.8	7.8	30.7	30.7	33.3	35.3	2.3	2.3	4	4	90	90	90	90	822120	817780	<0.2	1.4	1.4	1.4	1.4					
						10.7	0.4	315	26.1	26.1	7.8	7.8	30.6	30.6	37.3	35.3	2.5	2.2	2	2	90	90	90	90	822120	817780	<0.2	1.4	1.4	1.4	1.4					
IM1	Rainy	Moderate	14:13	5.2	Surface	1.0	0.3	10	28.6	28.6	7.6	7.6	11.6	11.6	83.2	83.1	6.0	5.7	7	7	86	86	88	88	817960	807115	<0.2	1.4	1.4	1.4	1.4					
						1.0	0.3	10	28.6	28.6	7.6	7.6	11.6	11.6	82.9	83.1	6.0	5.7	7	7	85	85	88	88	817960	807115	<0.2	1.4	1.4	1.4	1.4					
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
					Bottom	4.2	0.2	282	28.0	28.0	7.6	7.5	13.9	13.8	77.0	76.5	5.6	4.8	8	8	88	88	89	89	817960	807115	<0.2	1.4	1.4	1.4	1.4	1.4	1.4			
						4.2	0.2	290	28.0	28.0	7.5	7.5	13.8	13.8	75.9	76.5	5.5	4.7	8	8	89	89	89	89	817960	807115	<0.2	1.4	1.4	1.4	1.4	1.4	1.4			
IM2	Rainy	Moderate	14:05	7.1	Surface	1.0	0.7	333	28.3	28.3	7.5	7.5	12.4	12.3	76.7	76.6	5.6	5.2	6	6	85	85	88	88	818166	806157	<0.2	1.5	1.4	1.4	1.4					
						1.0	0.8	336	28.2	28.3	7.5	7.5	12.3	12.3	76.4	76.6	5.6	5.2	6	6	84	84	89	89	818166	806157	<0.2	1.4	1.4	1.4	1.4					
					Middle	3.6	0.6	316	27.8	27.9	7.5	7.5	16.4	16.6	65.2	65.2	4.7	5.9	6	6	89	89	89	89	818166	806157	<0.2	1.4	1.4	1.4	1.4					
						3.6	0.7	323	27.9	27.9	7.5	7.5	16.7	16.6	65.2	65.2	4.7	6.0	7	7	87	87	90	90	818166	806157	<0.2	1.4	1.4	1.4	1.4					
					Bottom	6.1	0.2	303	25.9	25.9	7.4	7.4	28.1	28.2	28.9	28.8	2.0	13.1	8	8	90	90	90	90	818166	806157	<0.2	1.2	1.2	1.2	1.2					
						6.1	0.2	325	25.9	25.9	7.4	7.4	28.2	28.2	28.9	28.8	2.0	13.2	9	9	90	90	90	90	818166	806157	<0.2	1.2	1.2	1.2	1.2					
IM3	Cloudy	Moderate	13:55	7.4	Surface	1.0	0.7	339	28.4	28.4	7.5	7.5	14.3	14.2	73.0	73.0	5.2	3.8	4	4	84	84	88	88	818780	805592	<0.2	1.3	1.3	1.3	1.3					
						1.0	0.7	312	28.4	28.4	7.5	7.5	14.2	14.2	73.0	73.0	5.2	3.9	4	4	86	86	88	88	818780	805592	<0.2	1.3	1.3	1.3	1.3					
					Middle	3.7	0.6	326	27.6	27.6	7.5	7.5	16.8	16.8	60.6	60.3	4.4	4.8	4	4	88	88	88	88	818780	805592	<0.2	1.4	1.4	1.4	1.4					
						3.7	0.7	341	27.6	27.6	7.5	7.5	16.8	16.8	60.0	60.3	4.3	4.8	4	4	88	88	88	88	818780	805592	<0.2	1.4	1.4	1.4	1.4					
					Bottom	6.4	0.2	331	25.6	25.6	7.4	7.4	30.2	30.2	31.1	31.3	2.1	12.0	5	5	90	90	90	90	818780	805592	<0.2	1.2	1.2	1.2	1.2					
						6.4	0.2	349	25.6	25.6	7.4	7.4	30.2	30.2	31.5	31.3	2.2	12.0	4	4	90	90	90	90	818780	805592	<0.2	1.1	1.1	1.1	1.1					
IM4	Cloudy	Moderate	13:45	7.7	Surface	1.0	0.6	298	28.2	28.2	7.6	7.6	14.1	14.1	74.7	74.6	5.4	3.3	3	3	84	84	88	88	819745	804615	<0.2	1.3	1.2	1.2	1.2					
						1.0	0.7	307	28.2	28.2	7.6	7.6	14.1	14.1	74.4	74.6	5.4	3.4	3	3	86	86	88	88	819745	804615	<0.2	1.2	1.2	1.2	1.2					
					Middle	3.9	0.5	277	27.1	27.1	7.4	7.4	21.7	21.7	48.5	48.6	3.4	4.8	3	3	88	88	87	87	819745	804615	<0.2	1.2	1.2	1.2	1.2					
						3.9	0.5	286	27.1	27.1	7.4	7.4	21.8	21.7	48.6	48.6	3.4	4.9	3	3	87	87	87	87	819745	804615	<0.2	1.2	1.2	1.2	1.2					
					Bottom	6.7	0.3	346	25.4	25.4	7.4	7.4	30.8	30.8	26.1	26.3	1.8	13.0	4	4	90	90	90	90	819745	804615	<0.2	1.0	1.0	1.0	1.0					
						6.7	0.3	318	25.4	25.4	7.4	7.4	30.8	30.8	26.4	26.3	1.8	12.9	5	5	90	90	90	90	819745	804615	<0.2	1.3	1.3	1.3	1.3					
IM5	Cloudy	Moderate	13:33	7.0	Surface	1.0	0.5	300	28.6	28.6	7.4	7.4	12.4	12.3	69.0	69.0	5.0	7.3	8	8	82	82	88	88	820737	804837	<0.2	1.8	1.6	1.6	1.6					
						1.0	0.5	321	28.6	28.6	7.4	7.4	12.2	12.3	69.2	69.0	5.0	7.2	7	7	83	83	88	88	820737	804837	<0.2	1.6	1.6	1.6	1.6					
					Middle	3.5	0.3	339	28.1	28.1	7.4	7.4	15.7	15.4	5																					

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 11 July 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	Cloudy	Moderate	13:48	6.9	Surface	1.0	0.2	78	30.3	30.3	7.8	7.8	4.3	4.3	80.0	80.0	5.9	5.7	9.5	8	81	85	85	85	85	822108	808805	<0.2	2.0	2.0				
						1.0	0.2	82	30.3	7.8	7.8	4.3	4.3	80.0	80.0	5.9	5.7	9.5	8	81	85	85	85	85	85	85	822108	808805	<0.2	1.9	2.0			
						3.5	0.1	102	29.6	29.6	7.8	7.8	6.6	6.6	75.4	75.3	5.5	5.5	7.1	7.3	8	9	85	85	85	85	85	822108	808805	<0.2	2.1	2.0		
					Middle	3.5	0.1	109	29.6	29.6	7.8	7.8	6.6	6.6	75.2	75.3	5.5	5.5	7.1	7.3	8	9	85	85	85	85	85	822108	808805	<0.2	2.0	2.0		
						5.9	0.2	312	28.5	28.6	7.7	7.7	14.7	14.7	63.6	63.7	4.6	4.6	5.5	5.5	9	9	90	90	90	90	90	822108	808805	<0.2	2.0	2.0		
						5.9	0.2	315	28.6	28.6	7.7	7.7	14.6	14.6	63.8	63.7	4.6	4.6	5.4	5.4	9	9	90	90	90	90	90	822108	808805	<0.2	2.0	2.0		
IM10	Cloudy	Moderate	13:53	7.3	Surface	1.0	0.2	40	30.1	30.1	7.8	7.8	5.2	5.2	80.1	80.1	5.9	5.5	8.4	6	82	82	82	82	82	822399	809781	<0.2	2.1	2.1				
						1.0	0.2	42	30.1	30.1	7.8	7.8	5.2	5.2	80.0	80.1	5.9	5.9	8.4	7	82	82	82	82	82	82	822399	809781	<0.2	2.1	2.1			
						3.7	0.3	349	29.0	29.0	7.8	7.8	10.4	10.4	70.2	70.2	5.1	5.1	4.7	7.1	8	8	84	84	84	84	84	822399	809781	<0.2	2.1	2.1		
					Middle	3.7	0.3	359	29.0	29.0	7.8	7.8	10.4	10.4	70.1	70.2	5.1	5.1	4.7	7.1	8	8	84	84	84	84	84	822399	809781	<0.2	2.1	2.1		
						6.3	0.3	297	28.1	28.1	7.7	7.7	18.0	18.0	55.7	55.9	3.9	3.9	8.3	8	8	8	8	8	8	8	8	822399	809781	<0.2	2.0	2.0		
						6.3	0.3	297	28.1	28.1	7.7	7.7	18.0	18.0	56.1	55.9	4.0	4.0	8.3	7	7	7	7	7	7	7	7	822399	809781	<0.2	2.1	2.1		
IM11	Cloudy	Moderate	14:04	7.9	Surface	1.0	0.1	343	29.9	29.9	7.8	7.8	6.6	6.6	80.3	80.3	5.9	5.6	6.2	5	82	82	82	82	82	8222043	811454	<0.2	2.0	2.0				
						1.0	0.1	352	29.9	29.9	7.8	7.8	6.6	6.6	80.2	80.3	5.9	5.6	6.0	5	82	82	82	82	82	82	8222043	811454	<0.2	1.9	2.0			
						4.0	0.5	299	28.8	28.8	7.8	7.8	11.6	11.6	71.7	71.6	5.2	5.2	2.9	4.7	5	5	85	85	85	85	85	8222043	811454	<0.2	1.9	1.9		
					Middle	4.0	0.5	320	28.8	28.8	7.8	7.8	11.6	11.6	71.5	71.6	5.2	5.2	2.9	4.7	5	5	85	85	85	85	85	8222043	811454	<0.2	1.9	1.9		
						6.9	0.5	295	27.5	27.6	7.7	7.7	22.2	22.2	47.9	48.0	3.3	3.3	5.2	5	5	5	90	90	90	90	90	8222043	811454	<0.2	1.9	1.9		
						6.9	0.5	297	27.6	27.6	7.7	7.7	22.3	22.3	48.1	48.0	3.3	3.3	5.0	5	5	5	90	90	90	90	90	8222043	811454	<0.2	2.0	2.0		
IM12	Rainy	Moderate	14:11	7.4	Surface	1.0	0.2	302	29.8	29.8	7.9	7.9	6.3	6.3	80.2	80.1	5.9	5.5	4	4	81	81	81	81	81	821442	812035	<0.2	2.0	2.0				
						1.0	0.2	309	29.7	29.7	7.8	7.8	6.3	6.3	79.9	79.9	5.9	5.9	4	4	80	80	80	80	80	80	821442	812035	<0.2	2.0	2.0			
						3.7	0.4	301	28.7	28.7	7.8	7.8	12.9	12.9	69.1	69.0	5.0	5.0	2.8	4.2	4	4	84	84	84	84	84	821442	812035	<0.2	1.9	1.9		
					Middle	3.7	0.4	318	28.7	28.7	7.8	7.8	12.9	12.9	68.8	69.0	5.0	5.0	2.8	4.2	4	4	84	84	84	84	84	821442	812035	<0.2	1.9	1.9		
						6.4	0.5	287	27.7	27.7	7.7	7.7	19.9	20.0	50.9	50.9	3.6	3.6	4.1	5	5	5	89	89	89	89	89	821442	812035	<0.2	1.9	1.9		
						6.4	0.5	287	27.7	27.7	7.7	7.7	20.1	20.0	50.9	50.9	3.6	3.6	4.2	4	4	4	89	89	89	89	89	821442	812035	<0.2	2.0	2.0		
SR1A	Rainy	Calm	14:30	5.3	Surface	1.0	-	-	29.5	29.5	7.9	7.9	9.2	9.2	84.8	84.6	6.2	6.2	3.4	3	-	-	-	-	-	819971	812659	-	-	-				
						1.0	-	-	29.5	29.5	7.9	7.9	9.2	9.2	84.4	84.6	6.1	6.1	3.4	3	-	-	-	-	-	-	819971	812659	-	-	-			
						2.7	-	-	-	-	-	-	-	-	-	-	-	-	-	6.2	6.2	4.4	4	-	-	-	-	-	819971	812659	-	-	-	
					Middle	2.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
						4.3	-	-	29.0	29.0	7.8	7.8	13.4	13.4	71.1	71.1	5.1	5.1	5.5	4	4	4	4	-	-	-	-	-	-	-	-	-	-	
						4.3	-	-	29.0	29.0	7.8	7.8	13.5	13.4	71.1	71.1	5.1	5.1	5.4	3	3	3	3	-	-	-	-	-	-	-	-	-	-	
SR2	Cloudy	Moderate	14:42	4.8	Surface	1.0	0.1	121	29.2	29.2	7.9	7.9	12.5	12.5	78.9	78.8	5.6	5.6	2.4	3	84	84	84	84	84	821474	814156	<0.2	2.1	2.1				
						1.0	0.1	124	29.2	29.2	7.9	7.9	12.5	12.5	78.6	78.8	5.6	5.6	2.3	4	4	4	84	84	84	84	84	821474	814156	<0.2	2.1	2.1		
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
						3.8	0.1	70	28.2	28.3	7.9	7.9	18.4	18.3	63.1	63.4	4.4	4.4	5.3	3.7	4	4	87	87	87	87	87	821474	814156	<0.2	2.1	2.1		
						3.8	0.1	75	28.3	28.3	7.9	7.9	18.2	18.3	63.7	63.4	4.5	4.5	4.7	3	3	3	3	88	88	88	88	88	821474	814156	<0.2	2.1	2.1	
SR3	Cloudy	Moderate	13:36	8.2	Surface	1.0	0.4	215	29.4	29.4	7.8	7.8	5.5	5.4	74.0	74.0	5.5	5.3	8	8	8	8	8	8	8	822168	807580	-	-	-				
						1.0	0.4	215	29.3	29.4	7.8	7.8	5.5	5.4	74.0	74.0	5.5	5.3	7.3	9	9	9	9	9	9	9	822168	807580	-	-	-			
						4.1	0.2	227	28.9	28.9	7.7	7.7	10.7	10.7	69.2	69.2	5.0	5.0	3.9	6.0	8	8	8	8	8	8	822168	807580	-	-	-			
					Middle	4.1	0.2	233	28.9	28.9	7.7	7.7	10.7	10.7	69.1	69.2	5.0	5.0	4.0	9	9	9	9	9	9	9	9	822168	807580	-	-	-		
						7.2	0.3	183	28.4	28.4	7.7	7.7	15.6	15.6	61.2	61.2	4.4	4.4	6.4	9	9	9	9	9	9	9	9	822168	807580	-	-	-		
						7.2	0.3	187	28.4	28.4	7.7	7.7	15.6	15.6	61.2	61.2	4.4	4.4	6.2	9	9	9	9	9	9	9	9	822168	807580	-	-	-		
SR4A	Cloudy	Moderate	14:57	9.1	Surface	1.0	0.1	24	29.0	29.0	7.6	7.6	12.3	12.2	85.3	85.3	6.1	5.7	7.1	5	-	-	-	-	-	817197	807814	-	-	-				
						1.0	0.1	24	29.0	29.0	7.6	7.6	12.1	12.2	85.2	85.3	6.1	5.7	7.2	4	4	4	4	4	4	4	817197	807814	-	-	-			
						4.6	0.1	264	28.6	28.6	7.5	7.5	14.5	14.5	72.7	72.6	5.2	5.2	8.1	8.9	5	5	5	5	5	5	817197	807814	-	-	-			
					Middle	4.6	0.1	264	28.6	28.6	7.5	7.5	14.5	14.5	72.4	72.4	5.2	5.2	8.1	8.9	5	5	5	5	5	5	5	817197	807814	-	-	-		
						8.1	0.1	197	26.1	26.1	7.4	7.4	27.5	27.5	35.0	35.4																		

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

Water Quality Monitoring

Water Quality Monitoring Results on 13 July 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	Rough	10:49	8.4	Surface	1.0	0.1	213	28.9	28.9	8.1	8.1	5.8	5.8	86.7	86.7	6.5	6.0	5.7	5	82	85	815604	804267	<0.2	1.2	1.2					
						1.0	0.1	217	28.9	8.1	8.1	5.8	5.8	86.6	86.7	6.5	6.0	5.7	5	81	85	815604	804267	<0.2	1.1							
						4.2	0.1	177	28.5	28.5	8.0	8.0	8.5	8.5	74.7	74.5	5.5	5.1	7.2	5	86	85	815604	804267	<0.2	1.1						
					4.2	0.1	179	28.5	28.5	8.0	8.0	8.5	8.5	74.3	74.5	5.5	5.2	7.2	5	84	85	815604	804267	<0.2	1.2							
					7.4	0.0	220	28.0	28.0	8.0	8.0	11.8	11.8	58.2	58.2	4.2	4.2	10.8	5	89	85	815604	804267	<0.2	1.4							
					7.4	0.0	229	28.0	28.0	8.0	8.0	11.8	11.8	58.2	58.2	4.2	4.2	10.8	5	90	85	815604	804267	<0.2	1.6							
C2	Fine	Rough	12:02	7.8	Surface	1.0	0.3	120	29.7	29.7	8.0	8.0	5.8	5.8	82.7	82.7	6.1	5.1	9.6	5	83	88	825694	806930	<0.2	1.7	1.7					
						1.0	0.3	126	29.7	29.7	8.0	8.0	5.8	5.8	82.6	82.7	6.1	5.1	9.6	5	84	88	825694	806930	<0.2	1.7						
						3.9	0.3	124	28.9	28.9	8.1	8.1	10.2	10.1	56.8	56.6	4.1	4.1	13.2	5	88	88	825694	806930	<0.2	1.7						
					3.9	0.4	128	28.9	28.9	8.1	8.1	10.0	10.1	56.3	56.6	4.1	4.1	13.1	5	88	88	825694	806930	<0.2	1.6							
					6.8	0.3	76	27.6	27.6	8.0	8.0	24.2	24.2	69.8	70.4	4.8	4.8	12.0	7	91	88	825694	806930	<0.2	1.8							
					6.8	0.3	77	27.7	27.7	8.0	8.0	24.2	24.2	70.9	70.4	4.9	4.9	12.1	6	92	88	825694	806930	<0.2	1.9							
C3	Fine	Moderate	09:26	13.4	Surface	1.0	0.6	71	29.1	29.1	7.8	7.8	11.7	11.7	80.4	80.3	5.8	5.5	7.6	3	83	86	822118	817781	<0.2	1.5	1.5					
						1.0	0.6	76	29.1	29.1	7.8	7.8	11.7	11.7	80.2	80.3	5.8	5.5	7.6	2	83	86	822118	817781	<0.2	1.3						
						6.7	0.4	61	28.6	28.6	7.8	7.8	15.7	15.7	72.9	73.0	5.2	4.1	8.8	3	87	86	822118	817781	<0.2	1.4						
					6.7	0.5	61	28.6	28.6	7.8	7.8	15.7	15.7	73.1	73.0	5.2	4.1	8.8	2	88	86	822118	817781	<0.2	1.4							
					12.4	0.3	14	28.5	28.5	7.9	7.9	16.3	16.3	76.9	77.1	5.5	5.5	9.0	2	88	86	822118	817781	<0.2	1.6							
					12.4	0.3	14	28.5	28.5	7.9	7.9	16.3	16.3	77.3	77.1	5.5	5.5	9.0	2	88	86	822118	817781	<0.2	1.7							
IM1	Cloudy	Rough	11:05	5.2	Surface	1.0	0.3	20	28.9	28.9	8.0	8.0	6.4	6.4	88.8	88.7	6.6	6.6	5.3	4	81	86	817966	807150	<0.2	1.2	1.3					
						1.0	0.3	21	28.9	28.9	8.0	8.0	6.4	6.4	88.6	88.7	6.6	6.6	5.3	3	84	86	817966	807150	<0.2	1.2						
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-
					4.2	0.3	25	28.4	28.4	8.0	8.0	8.8	8.8	77.0	76.7	5.7	5.7	5.3	4	88	86	817966	807150	<0.2	1.4							
					4.2	0.3	27	28.4	28.4	8.0	8.0	8.8	8.8	76.4	76.7	5.7	5.7	5.4	4	89	86	817966	807150	<0.2	1.2							
					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-
IM2	Cloudy	Rough	11:11	7.2	Surface	1.0	0.5	177	28.7	28.7	8.1	8.0	7.2	7.2	82.3	81.9	6.1	5.6	5.7	4	84	86	818151	806185	<0.2	1.2	1.3					
						1.0	0.5	181	28.6	28.6	8.0	8.0	7.2	7.2	81.5	81.9	6.1	5.6	5.6	5	83	86	818151	806185	<0.2	1.2						
						3.6	0.0	219	28.3	28.3	7.9	7.9	11.3	11.3	69.9	69.8	5.1	5.3	7.3	4	85	86	818151	806185	<0.2	1.2						
					3.6	0.0	239	28.3	28.3	7.9	7.9	11.3	11.3	69.7	69.8	5.1	5.3	7.3	5	84	86	818151	806185	<0.2	1.3							
					6.2	0.1	38	27.3	27.4	7.9	7.9	17.8	19.0	47.9	47.4	3.4	3.4	10.9	5	89	86	818151	806185	<0.2	1.3							
					6.2	0.1	40	27.4	27.4	7.9	7.9	20.3	19.0	46.8	47.4	3.3	3.4	10.9	5	90	86	818151	806185	<0.2	1.3							
IM3	Cloudy	Rough	11:18	7.2	Surface	1.0	0.8	191	28.8	28.8	8.0	8.0	8.3	8.3	78.1	77.9	5.8	5.0	5.5	4	84	86	818801	805572	<0.2	1.4	1.3					
						1.0	0.9	202	28.8	28.8	8.0	8.0	8.3	8.3	77.6	77.9	5.7	5.5	5.5	4	85	86	818801	805572	<0.2	1.3						
						3.6	0.8	208	27.8	27.8	7.9	7.9	15.0	14.7	58.6	58.6	4.2	4.2	9.3	4	85	86	818801	805572	<0.2	1.3						
					3.6	0.9	213	27.8	27.8	7.9	7.9	14.5	14.7	58.5	58.6	4.2	4.2	9.2	4	85	86	818801	805572	<0.2	1.2							
					6.2	0.3	217	25.3	25.3	7.9	7.9	30.4	30.4	31.5	31.6	2.2	2.2	13.1	5	90	86	818801	805572	<0.2	1.3							
					6.2	0.4	226	25.3	25.3	7.9	7.9	30.4	30.4	31.7	31.6	2.2	2.2	13.4	4	89	86	818801	805572	<0.2	1.2							
IM4	Cloudy	Rough	11:32	7.4	Surface	1.0	0.8	172	29.0	29.0	8.1	8.1	5.4	5.4	85.5	85.4	6.4	4.8	6.7	5	84	87	819747	804592	<0.2	1.5	1.4					
						1.0	0.9	183	29.0	29.0	8.1	8.1	5.4	5.4	85.3	85.4	6.4	4.8	6.8	5	86	87	819747	804592	<0.2	1.4						
						3.7	0.9	191	27.0	27.0	7.8	7.8	18.1	18.1	46.2	44.4	3.3	3.3	9.6	5	87	87	819747	804592	<0.2	1.5						
					3.7	0.9	196	27.0	27.0	7.8	7.8	18.1	18.1	42.5	44.4	3.1	3.1	9.6	5	88	87	819747	804592	<0.2	1.5							
					6.4	0.2	199	25.4	25.4	7.9	7.9	30.2	30.2	32.5	32.6	2.3	2.3	10.3	6	89	87	819747	804592	<0.2	1.4							
					6.4	0.2	203	25.4	25.4	7.9	7.9	30.2	30.2	32.6	32.6	2.3	2.3	10.3	6	90	87	819747	804592	<0.2	1.3							
IM5	Cloudy	Rough	11:42	7.0	Surface	1.0	0.8	196	29.1	29.1	8.0	8.0	4.7	4.7	86.7	86.7	6.5	6.3	7.3	6	86	88	820713	804846	<0.2	1.3	1.3					
						1.0	0.8	200	29.1	29.1	8.0	8.0	4.7	4.7	86.7	86.7	6.5	6.3	7.3	6	84	88	820713	804846	<0.2	1.3						
						3.5	0.7	216	28.8	28.8	8.0	8.0	7.0	6.9	80.5	80.5	6.0	6.0	6.0	6	89	88	820713	804846	<0.2	1.3						
					3.5	0.7	235	28.8	28.8	8.0	8.0	6.8	6.8	80.5	80.5	6.0	6.0	6.0	6	88	88	820713	804846	<0.2	1.4							
					6.0	0.6	238	27.4	27.4	7.8	7.8	19.2	19.1	51.9	52.0	3.7	3.7	14.6	6	89	88	820713	804846	<0.2	1.3							
					6.0	0.7	254	27.4	27.4	7.8	7.8	19.2	19.1	52.1	52.0	3.7	3.7	14.6	5	90	88	820713	804846	<0.2	1.3							
IM6	Cloudy	Rough	11:51	7.5	Surface	1.0	0.5	219	29.1	29.1	8.0	8.0	5.6	5.6	85.6	85.5	6.4	6.0	6.4	5	85	88	821040	805813	<0.2	1.3	1.3					
						1.0	0.5	230	29.1	29.1	8.0	8.0	5.6	5.6	85.4	85.5	6.4	6.2	7.3	5	83	88	821040	805813	<0.2	1.4						
						3.8	0.5	248	28.8	28.8	8.0	8.0	8.8	8.8	74.7	74.5	5.5	4.8	7.3	5	89	88	821040	805813	<0.2	1.3						
					3.8	0.5	249	28.8	28.8	8.0	8.0	8.8	8.8	74.2	74.5	5.5	4.9	7.3	4	89	88	821040	805813	<0.2	1.3							
					6.5	0.5	268	26.8	26.8	7.8	7.8	22.9	22.9	45.8	46.1	3.2	3.3	10.7	5	90	88	821040	805813	<0.2	1.3							
					6.5	0.5	291	26.8	26.8	7.8	7.8	22.8	22.9																			

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

Water Quality Monitoring

Water Quality Monitoring Results on 13 July 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	Fine	Moderate	11:14	8.0	Surface	1.0	0.4	115	29.4	29.4	8.1	8.1	8.0	8.0	78.3	78.2	5.7	5.4	10.7	11.6	4	4	84	88	88	88	822085	808807	<0.2	<0.2	1.6	1.6				
						1.0	0.4	119	29.4	29.4	8.1	8.1	8.0	8.0	78.0	78.0	5.7	5.4	10.7	11.6	4	4	84	88	88	88	822085	808807	<0.2	<0.2	1.6	1.6				
						4.0	0.2	87	29.0	29.0	8.0	8.0	10.8	10.8	68.7	68.6	5.0	5.0	11.4	11.5	4	4	88	88	88	88	822085	808807	<0.2	<0.2	1.7	1.9				
					Middle	4.0	0.2	89	29.0	29.0	8.0	8.0	10.8	10.8	68.4	68.4	5.0	5.0	11.5	11.5	4	4	88	88	88	88	822085	808807	<0.2	<0.2	1.7	1.9				
						7.0	0.2	99	28.6	28.6	7.9	7.9	15.0	15.1	66.4	66.5	4.7	4.7	12.5	12.5	5	5	91	91	91	91	822085	808807	<0.2	<0.2	1.4	1.4				
						7.0	0.2	105	28.6	28.6	7.9	7.9	15.3	15.1	66.6	66.5	4.7	4.7	12.5	12.5	5	5	91	91	91	91	822085	808807	<0.2	<0.2	1.4	1.4				
IM10	Fine	Moderate	11:05	7.7	Surface	1.0	0.3	78	29.5	29.5	8.0	8.0	7.3	7.3	87.9	87.9	6.4	5.8	10.9	12.4	4	4	84	84	84	84	822407	809791	<0.2	<0.2	1.4	1.4				
						1.0	0.3	83	29.5	29.5	8.0	8.0	7.3	7.3	87.9	87.9	6.4	5.8	10.9	12.4	4	4	84	84	84	84	822407	809791	<0.2	<0.2	1.4	1.4				
						3.9	0.4	84	28.9	28.9	7.9	7.9	11.2	11.1	71.1	71.0	5.1	5.1	13.8	12.6	5	4	88	88	88	88	822407	809791	<0.2	<0.2	1.5	1.5				
					Middle	3.9	0.4	85	28.9	28.9	7.9	7.9	11.1	11.1	70.8	71.0	5.1	5.1	13.8	12.6	4	4	88	88	88	88	822407	809791	<0.2	<0.2	1.4	1.4				
						6.7	0.3	79	28.5	28.5	7.8	7.8	16.5	16.5	71.8	72.1	5.1	5.1	13.8	12.6	4	4	91	91	91	91	822407	809791	<0.2	<0.2	1.5	1.5				
						6.7	0.3	84	28.5	28.5	7.8	7.8	16.5	16.5	72.3	72.1	5.1	5.1	13.8	12.6	5	4	92	92	92	92	822407	809791	<0.2	<0.2	1.4	1.4				
IM11	Fine	Moderate	10:51	7.9	Surface	1.0	0.6	100	29.2	29.2	7.9	7.9	7.9	7.9	67.9	67.6	5.0	4.5	10.2	10.4	4	4	83	84	84	84	822065	811479	<0.2	<0.2	1.8	1.8				
						1.0	0.7	102	29.2	29.2	7.9	7.9	7.9	7.9	67.2	67.0	4.9	4.5	10.2	10.4	3	4	84	88	88	88	822065	811479	<0.2	<0.2	1.8	1.8				
						4.0	0.6	90	28.5	28.5	7.9	7.9	14.0	14.1	55.8	55.6	4.0	4.0	10.3	10.3	4	4	88	88	88	88	822065	811479	<0.2	<0.2	2.0	2.0				
					Middle	4.0	0.6	94	28.5	28.5	7.9	7.9	14.1	14.1	55.3	55.6	4.0	4.0	10.3	10.3	3	4	88	88	88	88	822065	811479	<0.2	<0.2	1.7	1.7				
						6.9	0.1	99	27.4	27.4	7.9	7.9	23.4	23.4	54.3	55.6	3.8	3.9	10.7	10.8	4	4	91	91	91	91	822065	811479	<0.2	<0.2	1.8	1.8				
						6.9	0.1	103	27.4	27.4	7.9	7.9	23.4	23.4	56.9	55.6	4.0	4.0	10.8	10.8	4	4	92	92	92	92	822065	811479	<0.2	<0.2	1.6	1.6				
IM12	Fine	Moderate	10:35	6.9	Surface	1.0	0.5	109	29.4	29.4	7.9	7.9	9.1	9.1	75.7	75.6	5.5	4.8	9.5	10.1	4	4	83	84	84	84	821457	812051	<0.2	<0.2	1.6	1.6				
						1.0	0.5	114	29.4	29.4	7.8	7.8	9.1	9.1	75.4	75.4	5.5	4.8	9.5	10.1	3	4	84	88	88	88	821457	812051	<0.2	<0.2	1.6	1.6				
						3.5	0.4	93	28.5	28.5	7.8	7.8	16.5	16.5	58.0	58.0	4.1	4.1	10.1	10.1	4	4	88	88	88	88	821457	812051	<0.2	<0.2	1.5	1.5				
					Middle	3.5	0.5	94	28.5	28.5	7.8	7.8	16.5	16.5	57.9	58.0	4.1	4.1	10.1	10.1	4	4	88	88	88	88	821457	812051	<0.2	<0.2	1.5	1.5				
						5.9	0.1	155	27.4	27.4	7.8	7.8	22.9	22.9	50.5	50.7	3.5	3.5	10.8	10.8	4	4	91	91	91	91	821457	812051	<0.2	<0.2	1.3	1.3				
						5.9	0.1	167	27.4	27.4	7.8	7.8	22.9	22.9	50.8	50.7	3.5	3.5	10.8	10.8	5	4	91	91	91	91	821457	812051	<0.2	<0.2	1.3	1.3				
SR1A	Fine	Moderate	10:07	5.5	Surface	1.0	-	-	29.4	29.4	7.9	7.9	8.4	8.4	79.9	79.8	5.8	5.8	10.1	8.2	4	4	-	-	-	-	819977	812657	-	-	-	-				
						1.0	-	-	29.4	29.4	7.9	7.9	8.4	8.4	79.6	79.8	5.8	5.8	10.1	8.2	4	4	-	-	-	-	819977	812657	-	-	-	-				
						2.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
					Middle	2.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
						4.5	-	-	29.0	29.0	7.9	7.9	12.2	12.2	75.1	75.1	5.4	5.4	6.3	6.3	4	4	-	-	-	-	-	-	-	-	-	-	-	-		
						4.5	-	-	29.0	29.0	7.9	7.9	12.2	12.2	75.1	75.1	5.4	5.4	6.4	6.4	4	4	-	-	-	-	-	-	-	-	-	-	-	-		
SR2	Fine	Moderate	09:52	5.2	Surface	1.0	0.3	74	29.4	29.4	7.9	7.9	8.4	8.4	82.5	82.4	6.0	6.0	8.5	9.1	3	3	83	83	83	83	821481	814157	<0.2	<0.2	2.3	2.3				
						1.0	0.4	74	29.4	29.4	7.9	7.9	8.4	8.4	82.3	82.4	6.0	6.0	8.5	8.5	3	3	83	83	83	83	821481	814157	<0.2	<0.2	2.4	2.4				
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
					Middle	4.2	0.4	61	29.0	29.0	7.8	7.8	11.8	11.8	77.6	77.7	5.6	5.6	9.7	9.7	3	3	88	88	88	88	821481	814157	<0.2	<0.2	1.9	1.9				
						4.2	0.5	63	29.0	29.0	7.8	7.8	11.8	11.8	77.7	77.7	5.6	5.6	9.6	9.6	3	3	88	88	88	88	821481	814157	<0.2	<0.2	2.0	2.0				
						1.0	0.8	173	29.5	29.5	8.1	8.1	8.1	8.1	87.3	87.3	6.4	6.4	5.5	5.5	4	4	-	-	-	-	-	-	-	-	-	-	-	-	-	
Bottom	1.0	0.8	172	29.5	29.5	8.1	8.1	8.1	8.1	87.3	87.3	6.4	6.4	5.5	5.5	4	4	-	-	-	-	-	-	-	-	-	-	-	-	-						
	4.1	0.8	187	29.0	29.0	8.1	8.1	10.4	10.4	68.2	68.1	5.0	5.0	6.2	6.2	4	4	-	-	-	-	-	-	-	-	-	-	-	-	-						
	4.1	0.8	195	28.9	28.9	8.1	8.1	10.4	10.4	67.9	68.1	4.9	4.9	6.2	6.2	4	4	-	-	-	-	-	-	-	-	-	-	-	-	-						
SR3	Fine	Rough	11:40	8.1	Surface	1.0	0.4	243	28.3	28.3	8.0	8.0	17.1	18.3	63.6	63.8	4.5	4.5	8.8	6.8	4	4	-	-	-	-	822131	807562	-	-	-	-				
						1.0	0.4	245	28.4	28.4	8.0	8.0	19.5	18.3	63.9	63.8	4.5	4.5	8.8	8.8	5	5	-	-	-	-	822131	807562	-	-	-	-				
						7.1	0.4	245	28.4	28.4	8.0	8.0	17.1	18.3	63.9	63.8	4.5	4.5	8.8	8.8	5	5	-	-	-	-	822131	807562	-	-	-	-				
					Middle	1.0	0.1	41	28.8	28.8	7.9	7.9	6.5	6.4	80.9	80.6	6.0	5.1	5.6	6.9	4	4	-	-	-	-	-	-	817191	807822	-	-	-	-		
						1.0	0.1	43	28.8	28.8	7.9	7.9	6.4	6.4	80.3	80.6	6.0	5.1	5.6	6.9	4	4	-	-	-	-	-	-	817191	807822	-	-	-	-		
						4.5	0.2	52	27.9	27.9	7.9	7.9	16.6	16.6	57.4	57.4	4.1	4.1																		

Expansion of Hong Kong International Airport into a Three-Runway System
 Water Quality Monitoring
 Water Quality Monitoring Results on 13 July 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	Fine	Rough	17:12	8.4	Surface	1.0	0.1	69	29.7	29.7	7.9	7.9	7.1	7.1	94.1	94.0	6.9	5.1	5	5	85	88	88	88	815635	804232	<0.2	<0.2	1.4	1.4				
						1.0	0.1	0	29.6	29.6	7.9	7.1	7.1	93.9	94.0	6.9	5.1	6	6	87	88	88	88	815635	804232	<0.2	<0.2	1.4	1.4					
					Middle	4.2	0.1	73	29.4	29.4	7.9	7.9	17.9	17.9	91.7	91.6	6.3	4.8	6	6	89	89	88	88	815635	804232	<0.2	<0.2	1.4	1.4				
						4.2	0.1	75	29.4	29.4	7.9	7.9	17.9	17.9	91.5	91.6	6.3	4.7	6	6	90	89	88	88	815635	804232	<0.2	<0.2	1.4	1.4				
					Bottom	7.4	0.1	73	29.4	29.4	7.9	7.9	27.3	27.3	91.2	91.2	6.0	4.4	6	6	90	89	88	88	815635	804232	<0.2	<0.2	1.4	1.4				
						7.4	0.1	78	29.4	29.4	7.9	7.9	27.3	27.3	91.2	91.2	6.0	4.4	6	6	89	89	88	88	815635	804232	<0.2	<0.2	1.4	1.4				
C2	Fine	Rough	16:05	8.5	Surface	1.0	0.2	75	28.8	28.8	8.1	8.1	10.7	10.7	71.8	71.8	5.2	8.7	4	4	83	84	88	88	825660	806946	<0.2	<0.2	1.8	1.9				
						1.0	0.2	76	28.8	28.8	8.1	8.1	10.7	10.7	71.8	71.8	5.2	8.6	5	5	84	88	88	88	825660	806946	<0.2	<0.2	1.8	1.9				
					Middle	4.3	0.3	76	28.6	28.6	8.1	8.1	13.3	13.3	74.0	74.0	5.3	9.5	4	4	88	89	88	88	825660	806946	<0.2	<0.2	1.8	1.9				
						4.3	0.3	74	28.6	28.6	8.1	8.1	13.3	13.3	74.0	74.0	5.3	9.5	5	5	89	89	88	88	825660	806946	<0.2	<0.2	1.9	1.9				
					Bottom	7.5	0.1	67	28.7	28.7	8.0	8.0	16.6	16.6	77.9	78.5	5.5	10.5	5	5	91	91	88	88	825660	806946	<0.2	<0.2	1.9	2.0				
						7.5	0.1	65	28.8	28.7	8.0	8.0	16.7	16.7	79.1	78.5	5.6	10.6	6	6	91	91	88	88	825660	806946	<0.2	<0.2	2.0	2.0				
C3	Fine	Rough	18:18	11.2	Surface	1.0	0.1	210	29.4	29.4	8.0	8.0	10.5	10.5	74.0	73.8	5.3	8.4	5	5	83	84	88	88	822116	817807	<0.2	<0.2	1.7	1.7				
						1.0	0.2	236	29.4	29.4	8.0	8.0	10.5	10.5	73.5	73.8	5.3	8.4	5	5	84	88	88	88	822116	817807	<0.2	<0.2	1.7	1.7				
					Middle	5.6	0.0	240	28.3	28.3	8.0	8.0	17.6	17.6	60.2	60.2	4.3	9.7	5	5	88	88	88	88	822116	817807	<0.2	<0.2	1.6	1.6				
						5.6	0.0	222	28.3	28.3	8.0	8.0	17.6	17.6	60.1	60.2	4.3	9.7	4	4	88	88	88	88	822116	817807	<0.2	<0.2	1.6	1.6				
					Bottom	10.2	0.1	275	26.7	26.7	8.0	8.0	26.1	26.1	47.7	47.8	3.3	5.5	5	5	91	91	88	88	822116	817807	<0.2	<0.2	1.6	1.6				
						10.2	0.1	280	26.7	26.7	8.0	8.0	26.1	26.1	47.9	47.8	3.3	5.5	4	4	92	92	88	88	822116	817807	<0.2	<0.2	1.7	1.7				
IM1	Fine	Rough	16:52	5.2	Surface	1.0	0.1	18	29.0	29.0	8.0	8.0	16.7	16.7	95.6	95.5	6.7	5.1	5	5	85	86	88	88	817952	807144	<0.2	<0.2	1.4	1.5				
						1.0	0.2	18	29.0	29.0	8.0	8.0	16.7	16.7	95.4	95.5	6.7	5.1	4	4	86	86	88	88	817952	807144	<0.2	<0.2	1.6	1.6				
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					Bottom	4.2	0.1	294	28.9	28.9	7.9	7.9	28.4	28.4	93.6	93.5	6.2	11.7	5	5	88	89	88	88	817952	807144	<0.2	<0.2	1.5	1.5				
						4.2	0.1	305	28.8	28.9	7.9	7.9	28.4	28.4	93.3	93.5	6.2	11.6	6	6	89	89	88	88	817952	807144	<0.2	<0.2	1.4	1.4				
IM2	Fine	Rough	16:47	7.1	Surface	1.0	0.8	77	29.0	29.0	8.0	8.0	7.2	7.2	91.0	91.0	6.7	5.0	4	4	86	87	88	88	818144	806152	<0.2	<0.2	1.5	1.5				
						1.0	0.8	73	29.0	29.0	8.0	8.0	7.2	7.2	90.9	91.0	6.7	5.0	4	4	85	87	88	88	818144	806152	<0.2	<0.2	1.5	1.5				
					Middle	3.6	0.8	78	28.7	28.7	7.9	7.9	8.6	8.6	80.4	80.1	5.9	5.3	4	4	87	88	88	88	818144	806152	<0.2	<0.2	1.4	1.4				
						3.6	0.8	76	28.7	28.7	7.9	7.9	8.6	8.6	79.8	80.1	5.9	5.3	5	5	88	88	88	88	818144	806152	<0.2	<0.2	1.5	1.5				
					Bottom	6.1	0.3	72	25.3	25.3	7.8	7.8	30.8	30.8	39.7	39.9	2.7	7.2	5	5	90	90	88	88	818144	806152	<0.2	<0.2	1.5	1.5				
						6.1	0.4	73	25.3	25.3	7.8	7.8	30.8	30.8	40.0	39.9	2.8	7.2	4	4	89	89	88	88	818144	806152	<0.2	<0.2	1.5	1.5				
IM3	Fine	Rough	16:41	7.3	Surface	1.0	0.7	73	28.5	28.5	7.9	7.9	8.9	9.0	84.9	84.6	6.3	11.2	11	11	85	83	88	88	818785	805614	<0.2	<0.2	1.5	1.4				
						1.0	0.8	76	28.5	28.5	7.9	7.9	9.0	9.0	84.3	84.6	6.2	11.2	11	11	83	89	88	88	818785	805614	<0.2	<0.2	1.4	1.4				
					Middle	3.7	0.6	79	28.3	28.3	7.8	7.8	13.2	13.2	74.5	74.5	5.4	12.8	10	10	89	88	88	88	818785	805614	<0.2	<0.2	1.5	1.5				
						3.7	0.7	75	28.3	28.3	7.8	7.8	13.2	13.2	74.5	74.5	5.4	12.8	10	10	88	88	88	88	818785	805614	<0.2	<0.2	1.5	1.5				
					Bottom	6.3	0.2	72	25.7	25.7	7.7	7.7	30.6	30.6	46.4	46.8	3.2	8.9	10	10	90	90	88	88	818785	805614	<0.2	<0.2	1.4	1.4				
						6.3	0.2	75	25.7	25.7	7.7	7.7	30.5	30.6	47.2	46.8	3.2	8.9	10	10	89	89	88	88	818785	805614	<0.2	<0.2	1.3	1.3				
IM4	Fine	Rough	16:28	7.4	Surface	1.0	1.1	68	29.1	29.1	7.9	7.9	5.3	5.2	86.9	86.4	6.5	6.9	7	7	85	83	88	88	819710	804626	<0.2	<0.2	1.4	1.4				
						1.0	1.2	66	29.1	29.1	7.9	7.9	5.2	5.2	85.9	86.4	6.4	6.9	6	6	83	89	88	88	819710	804626	<0.2	<0.2	1.4	1.4				
					Middle	3.7	0.9	59	27.7	27.7	7.7	7.7	17.6	17.6	58.1	58.1	4.1	8.7	6	6	88	88	88	88	819710	804626	<0.2	<0.2	1.5	1.5				
						3.7	1.0	62	27.7	27.7	7.7	7.7	17.6	17.6	58.1	58.1	4.1	8.7	6	6	88	88	88	88	819710	804626	<0.2	<0.2	1.5	1.5				
					Bottom	6.4	0.3	55	25.7	25.7	7.7	7.7	29.4	29.4	40.2	40.3	2.8	12.4	8	8	89	89	88	88	819710	804626	<0.2	<0.2	1.4	1.4				
						6.4	0.3	54	25.7	25.7	7.7	7.7	29.4	29.4	40.4	40.3	2.8	12.4	7	7	90	89	88	88	819710	804626	<0.2	<0.2	1.4	1.4				
IM5	Fine	Rough	16:20	7.5	Surface	1.0	1.0	55	29.1	29.1	7.9	7.9	5.2	5.2	88.7	88.6	6.6	7.7	6	6	87	84	88	88	820735	804869	<0.2	<0.2	1.5	1.5				
						1.0	1.1	53	29.1	29.1	7.9	7.9	5.2	5.2	88.5	88.6	6.6	7.7	6	6	84	87	88	88	820735	804869	<0.2	<0.2	1.4	1.4				
					Middle	3.8	1.0	54	27.9	27.9	7.8	7.8	12.0	12.0	68.5	68.2	5.0	8.3	6	6	90	87	88	88	820735	804869	<0.2	<0.2	1.5	1.5				
						3.8	1.1	45	27.9	27.9	7.8	7.8	12.1	12.0	67.8	68.2	5.0	8.4	6	6	87	87	88	88	820735	804869	<0.2	<0.2	1.5	1.5				
					Bottom	6.5	0.5	49	27.6	27.6	7.7	7.7	17.4	17.4	5																			

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 13 July 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	Rough	16:44	8.1	Surface	1.0	1.1	326	29.6	29.6	8.1	8.1	6.4	6.4	87.2	87.2	6.4	6.4	10.6	5	83	88	88	88	822072	808815	<0.2	1.4	1.5	1.5						
						1.0	1.2	323	29.6	8.1	8.1	6.4	6.4	87.2	87.2	6.4	6.4	10.6	5	83	88	88	88	822072	808815	<0.2	1.5	1.5	1.5							
					Middle	4.1	1.0	318	29.5	29.5	8.1	8.1	8.0	8.0	86.2	86.2	6.3	6.3	11.5	11.4	5	5	88	88	88	88	822072	808815	<0.2	1.5	1.5	1.5				
						4.1	1.0	306	29.5	29.5	8.1	8.1	8.0	8.0	86.2	86.2	6.3	6.3	11.5	11.4	5	5	88	88	88	88	822072	808815	<0.2	1.5	1.5	1.5				
					Bottom	7.1	0.3	294	29.5	29.5	8.1	8.1	8.0	7.9	89.3	90.1	6.5	6.6	12.0	6.6	5	5	91	92	91	92	822072	808815	<0.2	1.4	1.6	1.6				
						7.1	0.3	289	29.5	29.5	8.1	8.1	7.9	7.9	90.8	90.8	6.6	6.6	12.1	6.6	5	5	92	92	92	92	822072	808815	<0.2	1.6	1.6	1.6				
IM10	Fine	Rough	16:50	7.9	Surface	1.0	0.2	287	29.7	29.7	8.1	8.1	6.3	6.3	83.9	83.8	6.2	5.9	3.8	5	80	84	88	88	822370	809805	<0.2	2.4	2.3	2.4						
						1.0	0.2	288	29.7	29.7	8.1	8.1	6.3	6.3	83.6	83.8	6.1	5.9	3.8	5	84	88	88	88	822370	809805	<0.2	2.3	2.4	2.4						
					Middle	4.0	0.5	278	29.3	29.3	8.1	8.1	9.3	9.1	76.8	76.7	5.6	5.5	6.4	6.2	5	5	88	88	88	88	822370	809805	<0.2	2.4	2.4	2.4				
						4.0	0.5	294	29.3	29.3	8.1	8.1	9.0	9.1	76.6	76.7	5.6	5.5	6.4	6.2	5	5	88	88	88	88	822370	809805	<0.2	2.4	2.4	2.4				
					Bottom	6.9	0.2	285	28.8	28.8	8.0	8.0	12.8	12.8	76.5	76.7	5.5	5.5	8.5	5.5	6	6	91	91	91	91	822370	809805	<0.2	1.7	1.7	1.7				
						6.9	0.2	276	28.8	28.8	8.0	8.0	12.8	12.8	76.8	76.7	5.5	5.5	8.5	5.5	6	6	91	91	91	91	822370	809805	<0.2	1.7	1.7	1.7				
IM11	Fine	Rough	17:00	7.7	Surface	1.0	0.9	279	29.8	29.8	8.0	8.0	6.3	6.3	84.9	84.9	6.2	5.6	9.3	5	83	84	88	88	822035	811454	<0.2	2.0	1.8	2.0						
						1.0	0.9	281	29.8	29.8	8.0	8.0	6.3	6.3	84.8	84.9	6.2	5.6	9.3	6	84	88	88	88	822035	811454	<0.2	1.8	2.0	2.0						
					Middle	3.9	0.8	269	28.7	28.7	8.0	8.0	13.3	13.2	69.7	69.7	5.0	5.0	10.2	10.6	6	6	88	88	88	88	822035	811454	<0.2	1.9	1.9	1.9				
						3.9	0.9	255	28.7	28.7	8.0	8.0	13.2	13.2	69.7	69.7	5.0	5.0	10.2	10.6	6	6	88	88	88	88	822035	811454	<0.2	1.9	1.9	1.9				
					Bottom	6.7	0.4	249	28.8	28.8	8.1	8.1	12.9	12.9	72.3	72.3	5.2	5.2	12.3	6	6	91	91	91	91	822035	811454	<0.2	1.8	1.8	1.8					
						6.7	0.4	246	28.8	28.8	8.1	8.1	12.9	12.9	72.3	72.3	5.2	5.2	12.3	6	6	92	92	92	92	822035	811454	<0.2	1.8	1.8	1.8					
IM12	Fine	Rough	17:06	8.0	Surface	1.0	0.9	263	29.8	29.8	8.1	8.1	6.5	6.5	87.7	87.6	6.4	5.9	7.3	6	83	83	88	88	821472	812053	<0.2	1.8	1.8	1.8						
						1.0	1.0	263	29.8	29.8	8.1	8.1	6.5	6.5	87.5	87.6	6.4	5.9	7.4	6	83	83	88	88	821472	812053	<0.2	1.8	1.8	1.8						
					Middle	4.0	0.5	251	29.0	29.0	8.0	8.0	11.9	11.9	73.6	73.6	5.3	5.3	9.6	9.6	6	6	88	88	88	88	821472	812053	<0.2	1.7	1.7	1.7				
						4.0	0.5	254	29.0	29.0	8.0	8.0	12.0	11.9	73.6	73.6	5.3	5.3	9.6	9.6	6	6	89	89	89	89	821472	812053	<0.2	1.7	1.7	1.7				
					Bottom	7.0	0.3	260	28.7	28.7	8.0	8.0	13.6	13.6	72.6	72.8	5.2	5.2	11.8	7	7	91	91	91	91	821472	812053	<0.2	1.8	1.8	1.8					
						7.0	0.3	244	28.7	28.7	8.0	8.0	13.6	13.6	72.9	72.8	5.2	5.2	11.8	6	6	92	92	92	92	821472	812053	<0.2	1.8	1.8	1.8					
SR1A	Fine	Rough	17:40	3.6	Surface	1.0	-	-	29.8	29.8	8.0	8.0	6.6	6.6	86.5	86.4	6.3	6.3	3.8	5	-	-	-	-	819982	812663	-	-	-	-						
						1.0	-	-	29.8	29.8	8.0	8.0	6.6	6.6	86.3	86.4	6.3	6.3	3.9	5	-	-	-	-	819982	812663	-	-	-	-						
					Middle	1.8	-	-	-	-	-	-	-	-	-	-	-	-	-	6.3	5.6	6	6	-	-	-	-	819982	812663	-	-	-	-			
						1.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	6	-	-	-	-	819982	812663	-	-	-	-			
					Bottom	2.6	-	-	29.3	29.3	8.0	8.0	8.9	8.9	80.5	80.5	5.9	5.9	7.3	6	6	91	91	-	-	-	-	819982	812663	-	-	-	-			
						2.6	-	-	29.3	29.3	8.0	8.0	8.9	8.9	80.5	80.5	5.9	5.9	7.3	5	5	91	91	-	-	-	-	819982	812663	-	-	-	-			
SR2	Fine	Rough	17:59	3.8	Surface	1.0	0.4	338	29.6	29.6	8.1	8.1	7.7	7.7	89.0	89.1	6.5	6.5	8.8	5	83	84	88	88	821476	814186	<0.2	1.7	1.7	1.7						
						1.0	0.5	359	29.6	29.6	8.1	8.1	7.7	7.7	89.1	89.1	6.5	6.5	8.8	6	84	88	88	88	821476	814186	<0.2	1.7	1.7	1.7						
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.8	6	6	6	6	821476	814186	<0.2	1.7	1.7	1.7				
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.8	6	6	6	6	821476	814186	<0.2	1.7	1.7	1.7				
					Bottom	2.8	0.2	99	29.4	29.4	8.1	8.1	9.0	9.0	88.1	88.2	6.4	6.4	10.9	6	6	88	88	88	88	821476	814186	<0.2	1.6	1.6	1.6					
						2.8	0.2	105	29.4	29.4	8.1	8.1	9.1	9.0	88.2	88.2	6.4	6.4	10.8	6	6	88	88	88	88	821476	814186	<0.2	1.6	1.6	1.6					
SR3	Fine	Rough	16:32	8.3	Surface	1.0	0.2	116	29.8	29.8	8.1	8.1	6.9	6.9	88.3	88.3	6.5	6.2	9.1	5	-	-	-	-	822135	807578	-	-	-	-						
						1.0	0.2	125	29.8	29.8	8.1	8.1	6.9	6.9	88.3	88.3	6.5	6.2	9.1	6	6	-	-	-	-	822135	807578	-	-	-	-					
					Middle	4.2	0.5	116	29.4	29.4	8.1	8.1	7.1	7.1	81.4	81.1	6.0	6.0	10.2	10.3	6	6	-	-	-	-	822135	807578	-	-	-	-				
						4.2	0.5	121	29.4	29.4	8.1	8.1	7.1	7.1	80.8	81.1	5.9	5.9	10.2	10.3	6	6	-	-	-	-	822135	807578	-	-	-	-				
					Bottom	7.3	0.2	87	29.2	29.2	8.1	8.1	9.8	9.8	82.0	82.1	6.0	6.0	11.5	8	8	-	-	-	-	-	-	822135	807578	-	-	-	-			
						7.3	0.3	90	29.3	29.3	8.1	8.1	9.8	9.8	82.1	82.1	6.0	6.0	11.5	7	7	-	-	-	-	-	-	822135	807578	-	-	-	-			
SR4A	Fine	Moderate	17:44	8.5	Surface	1.0	0.7	267	29.5	29.5	8.0	8.0	8.2	8.2	90.5	90.1	6.6	5.8	5.1	6	-	-	-	-	817180	807815	-	-	-	-						
						1.0	0.8	276	29.4	29.4	8.0	8.0	8.2	8.2	89.7	90.1	6.6	5.8	5.1	6	6	-	-	-	-	817180	807815	-	-	-	-					
					Middle	4.3	0.8	264	29.0	29.0	7.9	7.9	13.8	13.8	69.9	69.1	5.0	5.0	6.0	5.5	8	8	-	-	-	-	817180	807815	-	-	-	-				
						4.3	0.8	287	28.9	28.9	7.9	7.9	13.8	13.8	68.3	69.1	4.9	4.9	6.0	7	7	-	-	-	-	817180	807815	-	-	-	-					
					Bottom	7.5																														

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

Water Quality Monitoring Results on 16 July 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	Sunny	Moderate	12:22	7.6	Surface	1.0	0.0	154	29.6	29.6	8.9	8.9	9.1	9.1	84.4	84.3	6.1	6.1	7.1	5	82	86	86	815611	804226	<0.2	1.6	1.7	1.2			
						1.0	0.0	156	29.6	29.6	8.9	9.1	9.1	84.2	84.3	6.1	6.1	7.1	4	82	86	86	815611	804226	<0.2	1.6	1.7	1.2				
					Middle	3.8	0.0	178	28.9	28.8	8.9	8.9	12.4	12.2	83.9	84.0	6.0	6.1	8.2	4	86	86	86	815611	804226	<0.2	1.6	1.7	1.2			
						3.8	0.0	178	28.8	28.8	8.9	8.9	11.9	12.2	84.0	84.0	6.0	6.1	8.2	4	87	86	86	815611	804226	<0.2	1.6	1.7	1.2			
					Bottom	6.6	0.1	139	28.2	28.2	8.8	8.8	17.5	17.5	91.9	92.3	6.5	6.6	9.5	4	90	86	86	815611	804226	<0.2	1.6	1.7	1.2			
						6.6	0.1	147	28.2	28.2	8.8	8.8	17.5	17.5	92.7	92.3	6.6	6.6	9.5	4	91	86	86	815611	804226	<0.2	1.6	1.7	1.2			
C2	Fine	Moderate	11:05	11.3	Surface	1.0	0.5	143	28.6	28.6	7.7	7.7	9.6	10.0	75.0	74.9	5.5	5.5	3.9	4	77	81	81	825669	806940	<0.2	1.2	1.3	1.3			
						1.0	0.5	154	28.6	28.6	7.7	7.7	10.4	10.0	74.8	74.9	5.5	5.5	3.9	4	77	81	81	825669	806940	<0.2	1.2	1.3	1.3			
					Middle	5.7	0.5	150	27.3	27.3	7.6	7.6	18.6	18.6	53.4	53.4	3.8	3.8	6.3	6	81	81	81	825669	806940	<0.2	1.2	1.3	1.3			
						5.7	0.5	154	27.3	27.3	7.6	7.6	18.6	18.6	53.3	53.4	3.8	3.8	6.3	5	80	81	81	825669	806940	<0.2	1.2	1.3	1.3			
					Bottom	10.3	0.7	148	25.3	25.3	7.6	7.6	28.8	28.8	41.0	41.3	2.9	2.9	13.6	8	85	81	81	825669	806940	<0.2	1.2	1.3	1.3			
						10.3	0.7	155	25.3	25.3	7.6	7.6	28.8	28.8	41.5	41.3	2.9	2.9	13.5	8	85	81	81	825669	806940	<0.2	1.2	1.3	1.3			
C3	Fine	Moderate	12:42	12.6	Surface	1.0	0.5	296	28.1	28.1	7.8	7.8	15.8	15.8	78.6	78.4	5.6	5.6	4.4	6	80	84	84	822109	817780	<0.2	1.2	1.1	1.1			
						1.0	0.5	310	28.1	28.1	7.8	7.8	15.8	15.8	78.1	78.4	5.6	5.5	4.5	6	80	84	84	822109	817780	<0.2	1.2	1.1	1.1			
					Middle	6.3	0.2	207	25.9	25.9	7.7	7.7	25.5	25.5	54.2	54.3	3.8	3.8	5.0	6	84	84	84	822109	817780	<0.2	1.2	1.1	1.1			
						6.3	0.2	214	25.9	25.9	7.7	7.7	25.5	25.5	54.4	54.3	3.8	3.8	4.9	6	84	84	84	822109	817780	<0.2	1.2	1.1	1.1			
					Bottom	11.6	0.6	114	24.8	24.8	7.7	7.7	30.1	30.1	45.8	45.9	3.2	3.2	6.7	6	87	84	84	822109	817780	<0.2	1.2	1.1	1.1			
						11.6	0.6	117	24.8	24.8	7.7	7.7	30.1	30.1	45.9	45.9	3.2	3.2	6.8	6	88	84	84	822109	817780	<0.2	1.2	1.1	1.1			
IM1	Sunny	Calm	11:54	4.3	Surface	1.0	0.4	168	28.2	28.2	8.5	8.5	18.1	18.1	66.4	66.3	4.7	4.7	8.6	4	87	89	89	817948	807138	<0.2	1.3	1.1	1.2			
						1.0	0.4	174	28.2	28.2	8.5	8.5	18.1	18.1	66.2	66.3	4.7	4.7	8.6	3	87	89	89	817948	807138	<0.2	1.3	1.1	1.2			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	89	89	89	817948	807138	<0.2	1.3	1.1	1.2
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	89	89	89	817948	807138	<0.2	1.3	1.1	1.2
					Bottom	3.3	0.4	151	26.3	26.3	8.6	8.6	27.3	27.3	61.2	61.4	4.2	4.3	10.5	4	90	89	89	817948	807138	<0.2	1.3	1.1	1.2			
						3.3	0.4	163	26.3	26.3	8.6	8.6	27.3	27.3	61.6	61.4	4.3	4.3	10.8	4	91	89	89	817948	807138	<0.2	1.3	1.1	1.2			
IM2	Sunny	Calm	11:42	6.8	Surface	1.0	0.2	230	27.1	27.1	8.5	8.5	23.6	23.6	75.4	75.4	5.4	5.4	5.4	6	82	87	87	818148	806157	<0.2	1.2	1.3	1.1			
						1.0	0.2	237	27.1	27.1	8.5	8.5	23.6	23.6	75.4	75.4	5.4	5.4	5.4	7	86	87	87	818148	806157	<0.2	1.2	1.3	1.1			
					Middle	3.4	0.2	193	26.4	26.4	8.6	8.6	26.0	26.0	66.4	66.4	4.6	4.6	7.5	7	87	87	87	818148	806157	<0.2	1.2	1.1	1.1			
						3.4	0.2	207	26.3	26.3	8.6	8.6	26.1	26.0	66.4	66.4	4.6	4.6	7.6	7	87	87	87	818148	806157	<0.2	1.2	1.1	1.1			
					Bottom	5.8	0.2	159	25.9	25.9	8.5	8.5	29.6	29.6	51.1	51.1	3.6	3.6	9.6	6	91	87	87	818148	806157	<0.2	1.2	1.1	1.1			
						5.8	0.2	172	26.0	26.0	8.5	8.5	29.5	29.6	51.1	51.1	3.6	3.6	9.6	6	91	87	87	818148	806157	<0.2	1.2	1.1	1.1			
IM3	Sunny	Calm	11:37	6.5	Surface	1.0	0.2	168	26.8	26.8	8.6	8.6	25.1	25.1	83.8	83.8	6.0	6.0	9.2	11	82	87	87	818772	805578	<0.2	1.2	1.1	1.2			
						1.0	0.2	180	26.8	26.8	8.6	8.6	25.1	25.1	83.8	83.8	6.0	6.0	9.2	11	83	87	87	818772	805578	<0.2	1.2	1.1	1.2			
					Middle	3.3	0.5	156	26.4	26.4	8.6	8.6	27.1	27.1	66.5	66.5	4.6	4.6	10.1	10	86	87	87	818772	805578	<0.2	1.2	1.1	1.2			
						3.3	0.5	166	26.4	26.4	8.6	8.6	27.1	27.1	66.4	66.5	4.6	4.6	10.1	10	87	87	87	818772	805578	<0.2	1.2	1.1	1.2			
					Bottom	5.5	0.3	140	26.0	26.0	8.5	8.5	29.4	29.4	51.0	51.0	3.5	3.5	12.7	6	90	87	87	818772	805578	<0.2	1.2	1.1	1.2			
						5.5	0.3	140	26.0	26.0	8.5	8.5	29.4	29.4	50.9	51.0	3.5	3.5	12.7	7	91	87	87	818772	805578	<0.2	1.2	1.1	1.2			
IM4	Sunny	Moderate	11:30	7.2	Surface	1.0	0.9	205	29.0	28.9	8.5	8.5	9.9	9.9	71.8	71.6	5.2	5.2	6.8	4	83	87	87	819713	804604	<0.2	1.1	1.1	1.1			
						1.0	0.9	206	28.9	28.9	8.5	8.5	9.9	9.9	71.4	71.6	5.2	4.9	6.8	4	83	87	87	819713	804604	<0.2	1.1	1.1	1.1			
					Middle	3.6	0.7	187	27.7	27.7	8.6	8.6	17.1	17.1	63.4	63.3	4.5	4.5	8.7	4	87	87	87	819713	804604	<0.2	1.1	1.1	1.1			
						3.6	0.7	203	27.6	27.6	8.6	8.6	17.2	17.1	63.2	63.3	4.5	4.5	8.7	3	87	87	87	819713	804604	<0.2	1.1	1.1	1.1			
					Bottom	6.2	0.4	181	27.3	27.3	8.5	8.5	21.8	21.8	67.5	67.6	4.7	4.8	10.7	4	90	87	87	819713	804604	<0.2	1.1	1.1	1.1			
						6.2	0.4	198	27.3	27.3	8.5	8.5	21.8	21.8	67.7	67.6	4.7	4.8	10.7	3	90	87	87	819713	804604	<0.2	1.1	1.1	1.1			
IM5	Sunny	Moderate	11:22	7.9	Surface	1.0	0.8	213	29.2	29.2	8.5	8.5	10.0	10.0	78.8	78.7	5.7	5.7	6.3	4	79	85	85	820718	804887	<0.2	1.1	1.0	1.1			
						1.0	0.8	213	29.2	29.2	8.5	8.5	10.0	10.0	78.6	78.7	5.7	5.5	6.3	2	79	85	85	820718	804887	<0.2	1.1	1.0	1.1			
					Middle	4.0	0.6	217	28.2	28.2	8.5	8.5	18.9	18.9	74.0	74.2	5.2	5.2	8.9	3	87	85	85	820718	804887	<0.2	1.1	1.0	1.1			
						4.0	0.6	219	28.2	28.2	8.5	8.5	18.9	18.9	74.3	74.2	5.2	5.2	8.9	3	87	85	85	820718	804887	<0.2	1.1	1.0	1.1			
					Bottom	6.9	0.4	189	28.3	28.3	8.5	8.5	13.2	13.1	78.1	78.4	5.7	5.7	10.6	4	90	85	85	820718	804887	<0.2	1.1	1.0	1.1			
						6.9	0.5	197	28.2	28.3	8.5	8.5	13.1	13.1																		

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

Water Quality Monitoring

Water Quality Monitoring Results on 16 July 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	Fine	Moderate	11:31	7.6	Surface	1.0	0.1	137	28.4	28.4	7.7	7.7	11.9	11.9	75.4	75.5	5.5	5.1	4.1	4	79	83	822075	808820	<0.2	1.4	<0.2	1.3					
						1.0	0.1	142	28.4	7.7	7.7	11.9	11.9	75.5	75.5	5.5	5.1	3.9	3	79	83	822075	808820	<0.2	1.2	<0.2	1.2						
						3.8	0.3	138	27.5	7.6	7.6	16.7	16.7	63.6	63.6	4.6	4.6	5.0	4	82	83	822075	808820	<0.2	1.2	<0.2	1.1						
					Middle	3.8	0.4	141	27.5	7.6	7.6	16.7	16.7	63.5	63.6	4.6	4.6	5.0	4	83	83	822075	808820	<0.2	1.2	<0.2	1.1						
						6.6	0.2	108	26.8	7.6	7.6	21.0	21.0	54.6	54.7	3.9	3.9	10.2	7	87	87	822075	808820	<0.2	1.1	<0.2	1.1						
						6.6	0.2	115	26.8	7.6	7.6	21.0	21.0	54.8	54.8	3.9	3.9	10.3	7	87	87	822075	808820	<0.2	1.1	<0.2	1.1						
					IM10	Fine	Moderate	11:38	7.5	Surface	1.0	0.6	115	28.4	28.4	7.7	7.7	11.7	11.8	74.7	74.7	5.4	4.6	3.3	4	79	83	822368	809800	<0.2	1.3	<0.2	1.4
											1.0	0.7	115	28.4	7.7	7.7	11.8	11.8	74.6	74.6	5.4	4.6	3.3	3	78	83	822368	809800	<0.2	1.2	<0.2	1.4	
											3.8	0.7	114	26.9	7.6	7.6	19.5	20.2	53.5	53.6	3.8	3.8	13.1	5	83	83	822368	809800	<0.2	1.2	<0.2	1.2	
Middle	3.8	0.8	120	26.9						7.6	7.6	20.8	20.2	53.6	53.6	3.8	3.8	13.1	5	84	83	822368	809800	<0.2	1.2	<0.2	1.2						
	6.5	0.5	117	26.8						7.6	7.6	21.2	21.2	55.6	55.9	3.9	4.0	17.5	9	87	87	822368	809800	<0.2	1.1	<0.2	1.1						
	6.5	0.5	126	26.8						7.6	7.6	21.2	21.2	56.1	55.9	4.0	4.0	17.4	9	87	87	822368	809800	<0.2	0.9	<0.2	0.9						
IM11	Fine	Moderate	11:46	8.9						Surface	1.0	0.8	109	28.9	28.9	7.7	7.7	10.7	10.7	79.3	79.1	5.8	4.6	3.3	4	79	83	822064	811472	<0.2	1.4	<0.2	1.4
											1.0	0.8	109	28.9	7.7	7.7	10.7	10.7	78.9	79.1	5.7	4.6	3.3	3	79	83	822064	811472	<0.2	1.4	<0.2	1.4	
											4.5	0.7	115	26.7	7.6	7.6	22.0	22.0	49.5	49.5	3.5	3.5	8.4	6	83	83	822064	811472	<0.2	1.2	<0.2	1.2	
					Middle	4.5	0.8	126	26.7	7.6	7.6	22.0	22.0	49.5	49.5	3.5	3.5	8.4	5	83	83	822064	811472	<0.2	1.2	<0.2	1.2						
						7.9	0.4	111	26.3	7.6	7.6	23.8	23.8	49.3	49.5	3.5	3.5	12.5	10	87	87	822064	811472	<0.2	1.1	<0.2	1.1						
						7.9	0.4	116	26.3	7.6	7.6	23.8	23.8	49.7	49.5	3.5	3.5	12.5	11	87	87	822064	811472	<0.2	1.1	<0.2	1.1						
					IM12	Fine	Moderate	11:52	8.3	Surface	1.0	0.7	111	28.8	28.8	7.7	7.7	10.9	10.9	80.9	80.9	5.9	4.9	3.4	4	78	83	821450	812050	<0.2	0.9	<0.2	1.0
											1.0	0.7	120	28.8	7.7	7.7	10.9	10.9	80.8	80.8	5.9	4.9	3.4	4	79	83	821450	812050	<0.2	1.0	<0.2	1.0	
											4.2	0.6	102	27.2	7.6	7.6	19.0	18.9	55.2	55.2	3.9	3.9	7.4	8	82	83	821450	812050	<0.2	1.1	<0.2	1.1	
Middle	4.2	0.7	103	27.2						7.6	7.6	18.9	18.9	55.1	55.2	3.9	3.9	7.4	8	83	83	821450	812050	<0.2	1.1	<0.2	1.1						
	7.3	0.5	112	26.5						7.6	7.6	22.6	22.6	51.4	51.6	3.6	3.7	9.0	11	86	87	821450	812050	<0.2	1.0	<0.2	1.0						
	7.3	0.5	115	26.5						7.6	7.6	22.6	22.6	51.7	51.7	3.7	3.7	8.9	10	87	87	821450	812050	<0.2	1.0	<0.2	1.0						
SR1A	Fine	Moderate	12:11	4.7						Surface	1.0	-	-	28.8	28.8	7.8	7.8	11.9	11.9	86.7	86.8	6.3	6.3	4.8	5	-	-	819976	812656	-	-	-	-
											1.0	-	-	28.7	28.8	7.8	7.8	11.9	11.9	86.8	86.8	6.3	6.3	4.7	6	-	-	819976	812656	-	-	-	-
											2.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	819976	812656	-	-
					Middle	2.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	819976	812656	-	-	-	-			
						3.7	-	-	28.5	28.5	7.8	7.8	13.7	13.7	88.3	88.4	6.4	6.4	4.2	11	-	-	-	-	819976	812656	-	-	-	-			
						3.7	-	-	28.5	28.5	7.8	7.8	13.7	13.7	88.4	88.4	6.4	6.4	4.2	10	-	-	-	-	819976	812656	-	-	-	-			
					SR2	Fine	Moderate	12:21	4.4	Surface	1.0	0.6	93	28.7	28.8	7.7	7.7	12.1	12.1	85.4	85.5	6.2	6.2	3.8	6	79	81	821483	814166	<0.2	1.3	<0.2	1.4
											1.0	0.6	100	28.8	7.7	7.7	12.0	12.1	85.6	85.6	6.2	6.2	3.7	5	79	81	821483	814166	<0.2	1.4	<0.2	1.4	
											-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	821483	814166	<0.2	1.3
Middle	-	-	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	821483	814166	<0.2	1.3	<0.2	1.3			
	3.4	0.6	115	28.4						28.4	7.7	7.7	12.5	12.5	80.7	80.8	5.9	5.9	3.8	7	82	83	821483	814166	<0.2	1.2	<0.2	1.2					
	3.4	0.6	123	28.4						28.4	7.7	7.7	12.5	12.5	80.8	80.8	5.9	5.9	3.8	7	83	83	821483	814166	<0.2	1.2	<0.2	1.3					
SR3	Fine	Moderate	11:19	9.5						Surface	1.0	0.3	227	28.5	28.5	7.7	7.7	10.1	10.1	75.0	74.9	5.5	4.6	3.7	4	-	-	822162	807550	-	-	-	-
											1.0	0.3	242	28.4	28.5	7.7	7.7	10.2	10.1	74.7	74.9	5.5	4.6	3.7	3	-	-	822162	807550	-	-	-	-
											4.8	0.1	214	26.8	26.8	7.6	7.6	21.3	21.3	50.0	50.0	3.6	3.6	11.3	6	-	-	822162	807550	-	-	-	-
					Middle	4.8	0.2	229	26.8	26.8	7.6	7.6	21.3	21.3	50.0	50.0	3.6	3.6	11.3	7	-	-	822162	807550	-	-	-	-					
						8.5	0.1	26	26.0	26.0	7.6	7.6	25.9	25.9	49.4	49.5	3.5	3.5	18.6	11	-	-	822162	807550	-	-	-	-					
						8.5	0.1	26	26.0	26.0	7.6	7.6	26.0	25.9	49.6	49.5	3.5	3.5	18.6	13	-	-	822162	807550	-	-	-	-					
					SR4A	Sunny	Moderate	12:55	9.5	Surface	1.0	0.2	269	28.6	28.6	8.8	8.8	15.3	15.3	75.3	75.3	5.4	4.6	6.4	7	-	-	817209	807792	-	-	-	-
											1.0	0.2	278	28.6	28.6	8.8	8.8	15.3	15.3	75.2	75.3	5.4	4.6	6.4	6	-	-	817209	807792	-	-	-	-
											4.8	0.1	317	26.4	26.4	9.1	9.1	24.5	24.5	54.0	54.1	3.8	3.8	8.5	8	-	-	817209	807792	-	-	-	-
Middle	4.8	0.1	322	26.3						26.4	9.1	9.1	24.5	24.5	54.1	54.1	3.8	3.8	8.5	7	-	-	817209	807792	-	-	-	-					
	8.5	0.0	112	26.0						26.0	9.1	9.1	29.3	29.2	59.1	59.4	4.1	4.1	10.6	4	-	-	817209	807792	-	-	-	-					
	8.5	0.0	115	26.0						26.0	9.1	9.1	29.2	29.2	59.6	59.4	4.1	4.1	10.6	3	-	-	817209	807792	-	-	-	-					
SR5A	Sunny	Calm	13:12	3.8						Surface	1.0	0.1	332	30.1	30.1	9.0	9.0	11.5	11.5	91.0	90.4	6.5	6.5	5.4	6	-	-	816579	810681	-	-	-	-
											1.0	0.1	357	30.1	30.1	9.0	9.0	11.5	11.5	89.8	90.4	6.4	6.5	5.5	8	-	-	816579	810681	-	-	-	-
											-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	816579	810681	-	-
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	816579	810681	-	-	-	-			

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

Water Quality Monitoring Results on 16 July 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	Sunny	Moderate	05:20	8.4	Surface	1.0	0.3	13	27.2	27.1	8.5	8.5	22.3	22.1	73.0	73.2	5.1	5.1	5.4	5.4	5	5	83	83	87	87	815598	804234	<0.2	1.1	1.1	1.1					
						1.0	0.3	13	27.1	27.1	8.5	8.5	22.0	22.0	73.4	73.2	5.2	5.5	5.5	5.5	5	5	83	83	87	87	815598	804234	<0.2	1.1	1.1	1.1					
						4.2	0.1	15	28.9	28.9	8.4	8.4	11.8	11.8	78.3	78.6	5.7	8.2	8.2	8.2	4	4	86	86	87	87	815598	804234	<0.2	1.1	1.1	1.1					
					Middle	4.2	0.1	16	28.9	28.9	8.4	8.4	11.8	11.8	78.8	78.6	5.7	8.3	8.3	8.3	5	5	87	87	87	87	815598	804234	<0.2	1.0	1.0	1.0					
						7.4	0.2	22	28.9	28.9	8.4	8.4	10.6	10.6	78.6	78.6	5.7	10.7	10.7	10.7	6	6	90	90	87	87	815598	804234	<0.2	1.0	1.0	1.0					
						7.4	0.2	23	29.0	29.0	8.4	8.4	10.6	10.6	78.5	78.5	5.7	10.7	10.7	10.7	5	5	91	91	87	87	815598	804234	<0.2	1.0	1.0	1.0					
					C2	Fine	Moderate	07:18	10.8	Surface	1.0	0.4	12	28.2	28.2	7.7	7.7	10.5	10.5	75.1	75.0	5.5	4.2	4.2	4.2	3	3	81	81	85	85	825700	806953	<0.2	1.4	1.4	1.4
											1.0	0.5	13	28.2	28.2	7.7	7.7	10.5	10.5	74.8	74.8	5.5	4.2	4.2	4.2	4	4	80	80	85	85	825700	806953	<0.2	1.4	1.4	1.4
											5.4	0.3	12	27.3	27.3	7.6	7.6	18.2	18.2	56.8	56.6	4.1	9.1	9.1	9.1	6	6	84	84	85	85	825700	806953	<0.2	1.3	1.3	1.3
Middle	5.4	0.3	12	27.3						27.3	7.6	7.6	18.2	18.2	56.3	56.3	4.0	9.2	9.2	9.2	6	6	85	85	85	85	825700	806953	<0.2	1.3	1.3	1.3					
	9.8	0.5	15	25.1						25.1	7.6	7.6	29.4	29.4	39.8	39.9	2.8	13.4	13.4	13.4	10	10	89	89	85	85	825700	806953	<0.2	1.1	1.1	1.1					
	9.8	0.6	16	25.1						25.1	7.6	7.6	29.4	29.4	40.0	40.0	2.8	12.8	12.8	12.8	11	11	88	88	85	85	825700	806953	<0.2	1.2	1.2	1.2					
C3	Fine	Moderate	05:14	12.8						Surface	1.0	0.4	271	27.5	27.5	7.8	7.8	17.4	17.4	78.8	78.7	5.7	2.9	2.9	2.9	2	2	79	79	83	83	822100	817781	<0.2	1.2	1.2	1.2
											1.0	0.4	271	27.5	27.5	7.8	7.8	17.4	17.4	78.6	78.6	5.6	2.9	2.9	2.9	3	3	83	83	83	83	822100	817781	<0.2	1.1	1.1	1.1
											6.4	0.8	253	26.4	26.4	7.7	7.7	23.0	23.0	66.8	66.7	4.7	2.9	2.9	2.9	5	5	83	83	83	83	822100	817781	<0.2	1.2	1.2	1.2
					Middle	6.4	0.9	271	26.4	26.4	7.7	7.7	23.0	23.0	66.6	66.6	4.7	2.8	2.8	2.8	4	4	83	83	83	83	822100	817781	<0.2	1.3	1.3	1.3					
						11.8	0.4	276	24.6	24.6	7.6	7.6	30.4	30.4	48.3	48.4	3.4	4.4	4.4	4.4	4	4	87	87	83	83	822100	817781	<0.2	1.1	1.1	1.1					
						11.8	0.4	293	24.6	24.6	7.6	7.6	30.6	30.5	48.4	48.4	3.4	4.4	4.4	4.4	4	4	87	87	83	83	822100	817781	<0.2	1.1	1.1	1.1					
					IM1	Sunny	Calm	05:46	5.3	Surface	1.0	0.3	27	27.6	27.6	8.6	8.6	19.5	19.6	64.4	64.4	4.6	4.3	4.3	4.3	5	5	82	82	86	86	817964	807145	<0.2	1.4	1.4	1.4
											1.0	0.3	29	27.6	27.6	8.6	8.6	19.6	19.6	64.4	64.4	4.6	4.3	4.3	4.3	6	6	82	82	86	86	817964	807145	<0.2	1.3	1.3	1.3
											-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Middle	-	-	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
	4.3	0.2	14	26.9						26.9	8.5	8.5	24.9	24.9	78.0	78.5	5.4	8.5	8.5	8.5	5	5	90	90	86	86	817964	807145	<0.2	1.4	1.4	1.4					
	4.3	0.2	16	26.9						26.9	8.5	8.5	24.9	24.9	79.0	78.5	5.5	8.5	8.5	8.5	4	4	91	91	86	86	817964	807145	<0.2	1.4	1.4	1.4					
IM2	Sunny	Calm	05:52	6.8						Surface	1.0	0.3	29	28.0	28.0	8.5	8.5	17.9	17.9	78.2	78.2	5.4	3.8	3.8	3.8	5	5	86	86	87	87	818151	806184	<0.2	1.6	1.6	1.6
											1.0	0.3	28	28.0	28.0	8.5	8.5	17.8	17.8	78.2	78.2	5.4	3.8	3.8	3.8	4	4	85	85	87	87	818151	806184	<0.2	1.5	1.5	1.5
											3.4	0.2	27	26.7	26.7	8.6	8.6	25.4	25.2	65.9	65.9	4.7	6.4	6.4	6.4	3	3	87	87	87	87	818151	806184	<0.2	1.5	1.5	1.5
					Middle	3.4	0.2	27	26.7	26.7	8.6	8.6	25.4	25.2	65.9	65.9	4.7	6.4	6.4	6.4	4	4	88	88	87	87	818151	806184	<0.2	1.5	1.5	1.5					
						5.8	0.2	28	25.7	25.7	8.6	8.6	30.3	30.3	51.9	51.9	3.6	8.6	8.6	8.6	5	5	89	89	87	87	818151	806184	<0.2	1.4	1.4	1.4					
						5.8	0.2	26	25.7	25.7	8.6	8.6	30.3	30.3	52.1	52.0	3.6	8.8	8.8	8.8	7	7	88	88	87	87	818151	806184	<0.2	1.5	1.5	1.5					
					IM3	Sunny	Calm	05:59	7.1	Surface	1.0	0.3	29	28.3	28.3	8.6	8.6	16.3	16.3	73.5	73.5	5.2	5.5	5.5	5.5	4	4	85	85	87	87	818801	805571	<0.2	1.2	1.2	1.2
											1.0	0.3	29	28.3	28.3	8.6	8.6	16.3	16.3	73.5	73.5	5.2	5.6	5.6	5.6	4	4	84	84	87	87	818801	805571	<0.2	1.2	1.2	1.2
											3.6	0.2	24	26.4	26.4	8.8	8.8	26.2	26.1	58.7	58.6	4.0	8.5	8.5	8.5	5	5	89	89	87	87	818801	805571	<0.2	1.3	1.3	1.3
Middle	3.6	0.3	26	26.4						26.4	8.8	8.8	26.1	26.1	58.5	58.6	4.0	8.6	8.6	8.6	6	6	87	87	87	87	818801	805571	<0.2	1.2	1.2	1.2					
	6.1	0.2	25	25.7						25.7	8.8	8.8	30.3	30.3	51.4	51.4	3.6	12.6	12.6	12.6	6	6	89	89	87	87	818801	805571	<0.2	1.1	1.1	1.1					
	6.1	0.3	26	25.7						25.7	8.7	8.7	30.3	30.3	51.4	51.4	3.6	12.7	12.7	12.7	6	6	90	90	87	87	818801	805571	<0.2	1.1	1.1	1.1					
IM4	Sunny	Calm	06:07	8.2						Surface	1.0	0.7	25	28.1	28.1	8.6	8.6	16.9	16.9	70.7	70.7	5.1	5.1	5.1	5.1	4	4	84	84	87	87	819723	804593	<0.2	1.2	1.2	1.2
											1.0	0.7	27	28.1	28.1	8.6	8.6	16.9	16.9	70.7	70.7	5.1	5.2	5.2	5.2	5	5	84	84	87	87	819723	804593	<0.2	1.3	1.3	1.3
											4.1	0.6	25	26.9	26.9	8.7	8.7	22.6	22.7	59.3	59.3	4.2	7.6	7.6	7.6	5	5	87	87	87	87	819723	804593	<0.2	1.1	1.1	1.1
					Middle	4.1	0.6	26	26.9	26.9	8.7	8.7	22.7	22.7	59.3	59.3	4.2	7.6	7.6	7.6	4	4	87	87	87	87	819723	804593	<0.2	1.2	1.2	1.2					
						7.2	0.3	28	25.9	25.9	8.6	8.6	27.1	27.1	66.1	66.2	4.6	9.3	9.3	9.3	5	5	88	88	87	87	819723	804593	<0.2	1.2	1.2	1.2					
						7.2	0.4	29	25.9	25.9	8.6	8.6	27.9	27.5	66.2	66.2	4.6	9.3	9.3	9.3	4	4	89	89	87	87	819723	804593	<0.2	1.3	1.3	1.3					
					IM5	Sunny	Moderate	06:17	8.0	Surface	1.0	0.5	26	28.7	28.7	8.5	8.5	12.7	12.7	71.3	71.3	5.1	4.8	4.8	4.8	4	4	85	85	88	88	820735	804890	<0.2	1.3	1.3	1.3
											1.0	0.5	27	28.7	28.7	8.5	8.5	12.7	12.7	71.3	71.3	5.1	4.8	4.8	4.8	4	4	84	84	88	88	820735	804890	<0.2	1.2	1.2	1.2
											4.0	0.4	24	28.1	28.1	8.6	8.6	16.0	16.0	64.1	64.0	4.6	8.4	8.4	8.4	5	5	88	88	88	88	820735	804890	<0.2	1.2	1.2	1.2
Middle	4.0	0.4	23	28.1						28.1	8.6	8.6	16.0	16.0	63.9	64.0	4.6	8.4	8.4	8.4	4	4	89	89	88	88	820735	804890	<0.2	1.2	1.2	1.2					
	7.0	0.5	18	26.1						26.0	8.7	8.7	28.7	28.7	52.9	53.1	3.7	10.9	10.9	10.9	5	5	90	90	88	88	820735	804890	<0.2	1.3	1.3	1.3					
	7.0	0.5	19	26.0						26.0	8.7	8.7	28.7	28.7	53.3	53.3	3.7	10.9	10.9	10.9	5	5	89	89	88	88	820735	804890	<0.2	1.2	1.2	1.2					
IM6	Sunny	Moderate	06:25	8.5						Surface	1.0	0.6																									

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

Water Quality Monitoring

Water Quality Monitoring Results on 16 July 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	Moderate	06:45	7.9	Surface	1.0	0.4	44	28.4	28.4	7.6	7.6	8.5	8.5	79.9	79.9	5.9	4.6	4	77	80	80	80	80	822079	808825	<0.2	1.3	1.4	1.6						
						1.0	0.4	45	28.4	28.4	7.6	7.6	8.5	8.5	79.9	79.9	5.9	4.6	4	76	80	80	80	80	80	80	80	<0.2	1.5	1.5	1.6					
						4.0	0.6	49	27.8	27.8	7.7	7.7	13.5	13.5	68.8	68.8	5.0	5.5	5	80	80	80	80	80	80	80	80	<0.2	1.5	1.5	1.6					
					Middle	4.0	0.6	50	27.8	27.8	7.7	7.7	13.5	13.5	68.4	68.4	5.0	5.5	4	80	80	80	80	80	80	80	80	80	80	<0.2	1.5	1.5	1.6			
						6.9	0.5	54	26.9	27.0	7.6	7.6	19.8	19.8	58.7	58.8	4.2	7.8	9	84	84	84	84	84	84	84	84	84	<0.2	1.7	1.7	1.8				
						6.9	0.5	56	27.0	27.0	7.6	7.6	19.8	19.8	58.9	58.8	4.2	8.0	10	84	84	84	84	84	84	84	84	84	<0.2	1.8	1.8	1.8				
					IM10	Fine	Moderate	06:36	8.4	Surface	1.0	0.8	62	28.2	28.2	7.7	7.7	10.0	10.1	74.8	74.7	5.5	5.0	4	76	80	80	80	80	822399	809802	<0.2	1.4	1.3	1.5	
											1.0	0.9	67	28.2	28.2	7.7	7.7	10.1	10.1	74.6	74.7	5.5	5.1	3	77	80	80	80	80	80	80	80	<0.2	1.3	1.3	1.5
											4.2	0.8	61	27.5	27.5	7.7	7.7	15.5	15.5	66.8	66.8	4.8	8.4	5	80	80	80	80	80	80	80	80	<0.2	1.5	1.5	1.5
Middle	4.2	0.8	63	27.5						27.5	7.7	7.7	15.5	15.5	66.7	66.7	4.8	8.4	6	80	80	80	80	80	80	80	80	80	80	<0.2	1.5	1.5	1.5			
	7.4	0.6	72	27.2						27.2	7.6	7.6	20.3	20.2	56.3	58.1	4.0	7.5	8	84	84	84	84	84	84	84	84	84	<0.2	1.6	1.6	1.6				
	7.4	0.6	72	27.2						27.2	7.6	7.6	20.2	20.2	59.8	58.1	4.3	7.6	8	84	84	84	84	84	84	84	84	84	<0.2	1.6	1.6	1.6				
IM11	Fine	Moderate	06:20	9.2						Surface	1.0	0.6	81	28.1	28.1	7.7	7.7	11.9	12.3	69.6	69.7	5.1	5.0	4	76	80	80	80	80	822040	811478	<0.2	1.4	1.5	1.5	
											1.0	0.6	86	28.1	28.1	7.7	7.7	12.7	12.3	69.7	69.7	5.1	5.1	4	77	80	80	80	80	80	80	80	<0.2	1.5	1.5	1.5
											4.6	0.3	80	27.7	27.7	7.7	7.7	16.3	16.3	69.0	68.9	5.0	3.7	5	80	80	80	80	80	80	80	80	<0.2	1.5	1.5	1.5
					Middle	4.6	0.4	81	27.7	27.7	7.7	7.7	16.3	16.3	68.8	68.9	4.9	3.7	4	80	80	80	80	80	80	80	80	80	80	<0.2	1.5	1.5	1.5			
						8.2	0.1	115	26.2	26.2	7.6	7.6	24.4	24.4	51.9	52.1	3.7	6.3	4	84	84	84	84	84	84	84	84	<0.2	1.6	1.6	1.6					
						8.2	0.2	121	26.2	26.2	7.6	7.6	24.3	24.4	52.3	52.1	3.7	6.2	5	84	84	84	84	84	84	84	84	<0.2	1.5	1.5	1.5					
					IM12	Fine	Moderate	06:12	8.8	Surface	1.0	0.4	99	28.6	28.6	7.8	7.8	11.5	11.4	82.8	82.8	6.0	3.6	3	76	80	80	80	80	821445	812061	<0.2	1.3	1.2	1.3	
											1.0	0.4	97	28.6	28.6	7.8	7.8	11.4	11.4	82.7	82.7	6.0	3.6	4	76	80	80	80	80	80	80	80	<0.2	1.2	1.2	1.3
											4.4	0.3	88	28.3	28.3	7.8	7.8	13.4	13.4	75.7	75.4	5.5	4.6	3	81	80	80	80	80	80	80	80	<0.2	1.2	1.3	1.3
Middle	4.4	0.3	90	28.3						28.3	7.8	7.8	13.5	13.4	75.1	75.4	5.4	5.1	4	80	80	80	80	80	80	80	80	80	80	<0.2	1.3	1.3	1.3			
	7.8	0.2	93	25.6						25.6	7.6	7.6	27.2	27.1	56.4	56.5	4.0	9.5	5	85	84	84	84	84	84	84	84	<0.2	1.5	1.5	1.5					
	7.8	0.2	93	25.6						25.6	7.6	7.6	27.0	27.1	56.5	56.5	4.0	9.5	4	84	84	84	84	84	84	84	84	<0.2	1.5	1.5	1.5					
SR1A	Fine	Moderate	05:51	4.9						Surface	1.0	-	-	28.5	28.5	7.8	7.8	12.1	12.1	87.1	87.2	6.3	4.0	4	-	80	80	80	80	819978	812660	-	-	-	-	
											1.0	-	-	28.5	28.5	7.8	7.8	12.1	12.1	87.2	87.2	6.3	3.9	4	-	-	-	-	-	-	-	-	-	-	-	
											2.5	-	-	-	-	-	-	-	-	-	-	-	-	6.3	-	-	-	-	-	-	-	-	-	-	-	-
					Middle	2.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
						3.9	-	-	28.4	28.4	7.8	7.8	12.7	12.8	85.6	85.6	6.2	3.7	5	-	-	-	-	-	-	-	-	-	-	-	-	-				
						3.9	-	-	28.4	28.4	7.8	7.8	12.8	12.8	85.5	85.6	6.2	3.7	4	-	-	-	-	-	-	-	-	-	-	-	-	-				
					SR2	Fine	Moderate	05:39	4.3	Surface	1.0	0.1	101	28.5	28.5	7.8	7.8	12.0	12.0	87.1	87.1	6.3	3.9	5	80	80	80	80	80	821446	814185	<0.2	1.4	1.4	1.3	
											1.0	0.1	104	28.5	28.5	7.8	7.8	12.0	12.0	87.0	87.0	6.3	3.9	6	80	80	80	80	80	80	80	80	<0.2	1.4	1.4	1.3
											-	-	-	-	-	-	-	-	-	-	-	-	-	6.3	-	-	-	-	-	-	-	-	-	-	-	-
Middle	-	-	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
	3.3	0.0	39	28.4						28.4	7.8	7.8	12.8	12.8	85.4	85.4	6.2	3.9	5	84	84	84	84	84	84	84	84	84	<0.2	1.2	1.2	1.0				
	3.3	0.0	39	28.4						28.4	7.8	7.8	12.9	12.8	85.4	85.4	6.2	3.9	6	84	84	84	84	84	84	84	84	84	<0.2	1.0	1.0	1.0				
SR3	Fine	Moderate	06:59	9.6						Surface	1.0	0.3	15	28.4	28.4	7.6	7.6	9.9	9.9	74.3	74.2	5.5	4.4	4	-	80	80	80	80	822155	807556	-	-	-	-	
											1.0	0.3	16	28.3	28.3	7.6	7.6	9.9	9.9	74.1	74.2	5.5	4.4	4	-	-	-	-	-	-	-	-	-	-	-	
											4.8	0.4	17	27.4	27.4	7.6	7.6	17.5	17.5	56.5	56.5	4.1	4.8	5	-	-	-	-	-	-	-	-	-	-		
					Middle	4.8	0.5	17	27.4	27.4	7.6	7.6	17.5	17.5	56.4	56.5	4.1	4.9	5	-	-	-	-	-	-	-	-	-	-	-						
						8.6	0.1	17	26.8	26.8	7.6	7.6	21.1	21.1	50.0	50.1	3.6	11.4	8	-	-	-	-	-	-	-	-	-	-							
						8.6	0.1	18	26.8	26.8	7.6	7.6	21.1	21.1	50.1	50.1	3.6	11.5	8	-	-	-	-	-	-	-	-	-								
					SR4A	Sunny	Calm	04:52	9.6	Surface	1.0	0.3	280	29.0	29.0	8.4	8.4	10.4	10.4	77.3	77.3	5.6	4.8	6	-	80	80	80	80	817206	807823	-	-	-	-	
											1.0	0.3	283	29.0	29.0	8.4	8.4	10.4	10.4	77.2	77.3	5.6	4.9	6	-	-	-	-	-	-	-	-	-			
											4.8	0.4	273	29.0	29.0	8.4	8.4	10.4	10.4	76.8	76.8	5.6	6.5	7	-	-	-	-	-	-	-	-	-			
Middle	4.8	0.4	277	29.0						29.0	8.4	8.4	10.3	10.4	76.8	76.8	5.6	6.5	8	-	-	-	-	-	-	-	-	-								
	8.6	0.3	265	25.3						25.3	8.6	8.6	32.4	32.4	50.2	50.3	3.4	8.1	7	-	-	-	-	-	-	-	-									
	8.6	0.4	270	25.3						25.3	8.6	8.6	32.4	32.4	50.3	50.3	3.4	8.3	8	-	-	-	-	-	-	-										
SR5A	Sunny	Calm	04:34	4.8						Surface	1.0	0.1	228	29.6	29.6	8.7	8.7	11.8	11.8	99.9	100.0	7.1	10.7	6	-	80	80	80	80	816600	810702	-	-	-	-	
											1.0	0.1																								

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

Water Quality Monitoring

Water Quality Monitoring Results on 18 July 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	Moderate	12:52	7.4	Surface	1.0	0.2	99	29.6	29.6	8.0	8.0	13.0	12.9	86.6	86.3	6.1	5.5	2.8	5.4	3	4	84	87	822084	808832	<0.2	1.4	<0.2	1.4						
						1.0	0.2	105	29.6	8.0	8.0	12.9	12.9	86.0	86.0	6.1	6.1	2.9	2.9	4	4	84	84	84	84	<0.2	1.3	<0.2	1.3							
						3.7	0.2	88	27.8	7.9	7.9	18.2	18.0	67.1	67.0	4.8	4.8	4.0	4.0	3	3	89	89	89	89	<0.2	1.2	<0.2	1.2							
					Middle	3.7	0.2	90	27.8	7.9	7.9	17.8	18.0	66.9	67.0	4.8	4.8	4.2	4.2	4	4	87	4	87	4	87	4	<0.2	1.5	<0.2	1.4					
						6.4	0.3	117	26.8	7.9	7.9	24.5	24.5	53.0	53.2	3.7	3.7	9.3	9.3	5	5	90	5	90	5	90	5	<0.2	1.2	<0.2	1.2					
						6.4	0.3	124	26.8	7.9	7.9	24.5	24.5	53.4	53.2	3.7	3.7	9.3	9.3	4	4	90	4	90	4	90	4	<0.2	1.2	<0.2	1.2					
					IM10	Cloudy	Moderate	12:59	7.2	Surface	1.0	0.5	112	29.0	29.0	8.0	8.0	14.5	14.5	87.8	87.8	6.2	6.0	2.0	4.2	4	5	84	88	822362	809804	<0.2	1.3	<0.2	1.5	
											1.0	0.5	118	29.0	8.0	8.0	14.5	14.5	87.7	87.7	6.2	6.2	2.0	2.0	4	4	84	4	84	4	84	4	<0.2	1.2	<0.2	1.2
											3.6	0.6	117	28.5	8.0	8.0	15.9	15.9	80.2	80.0	5.7	5.7	2.2	2.2	5	5	88	5	88	5	88	5	<0.2	1.2	<0.2	1.2
Middle	3.6	0.7	124	28.5						8.0	8.0	15.9	15.9	79.8	79.8	5.7	5.7	2.3	2.3	4	4	89	4	89	4	89	4	<0.2	1.2	<0.2	1.2					
	6.2	0.6	111	26.8						7.9	7.9	24.0	24.0	52.9	53.1	3.7	3.7	8.3	8.3	5	5	90	5	90	5	90	5	<0.2	1.2	<0.2	1.2					
	6.2	0.6	115	26.8						7.9	7.9	24.0	24.0	53.2	53.1	3.7	3.7	8.3	8.3	5	5	90	5	90	5	90	5	<0.2	1.2	<0.2	1.2					
IM11	Cloudy	Moderate	13:08	8.0						Surface	1.0	0.9	109	29.2	29.2	8.1	8.1	14.6	14.6	89.8	89.6	6.4	5.0	2.1	6.9	5	6	83	87	822042	811445	<0.2	1.2	<0.2	1.2	
											1.0	0.9	111	29.2	8.1	8.1	14.6	14.6	89.4	89.4	6.3	6.3	2.4	2.4	4	4	84	4	84	4	84	4	<0.2	1.1	<0.2	1.1
											4.0	0.5	123	26.9	7.9	7.9	23.6	23.6	53.1	53.2	3.7	3.7	10.0	10.0	6	6	87	6	87	6	87	6	<0.2	1.2	<0.2	1.2
					Middle	4.0	0.5	129	26.9	7.9	7.9	23.5	23.6	53.3	53.2	3.7	3.7	9.9	9.9	5	5	88	5	88	5	88	5	<0.2	1.1	<0.2	1.1					
						7.0	0.3	132	26.7	7.9	7.9	24.5	24.5	54.8	55.0	3.8	3.9	8.6	8.6	8	8	89	8	89	8	89	8	<0.2	1.2	<0.2	1.2					
						7.0	0.3	140	26.7	7.9	7.9	24.5	24.5	55.2	55.0	3.8	3.9	8.6	8.6	9	9	90	9	90	9	90	9	<0.2	1.3	<0.2	1.3					
					IM12	Cloudy	Moderate	13:13	8.3	Surface	1.0	0.8	105	29.5	29.5	8.1	8.1	14.1	14.1	90.1	89.9	6.4	5.0	3.7	7.3	4	9	85	87	821442	812050	<0.2	1.2	<0.2	1.2	
											1.0	0.8	107	29.5	8.1	8.1	14.1	14.1	89.6	89.6	6.3	6.3	3.7	3.7	4	4	85	4	85	4	85	4	<0.2	1.1	<0.2	1.1
											4.2	0.4	114	26.9	7.9	7.9	23.1	23.1	53.0	53.0	3.7	3.7	8.9	8.9	5	5	87	5	87	5	87	5	<0.2	1.2	<0.2	1.2
Middle	4.2	0.4	119	26.9						7.9	7.9	23.1	23.1	53.0	53.0	3.7	3.7	8.9	8.9	6	6	87	6	87	6	87	6	<0.2	1.2	<0.2	1.2					
	7.3	0.4	129	26.7						7.9	7.9	24.4	24.4	52.5	52.6	3.7	3.7	9.4	9.4	16	16	89	16	89	16	89	16	<0.2	1.2	<0.2	1.2					
	7.3	0.4	131	26.7						7.9	7.9	24.4	24.4	52.7	52.6	3.7	3.7	9.4	9.4	16	16	89	16	89	16	89	16	<0.2	1.2	<0.2	1.2					
SR1A	Cloudy	Moderate	13:30	5.1						Surface	1.0	-	-	29.5	29.5	8.1	8.1	14.7	14.7	92.7	92.5	6.5	6.5	3.4	4.8	4	6	-	-	819980	812657	-	-	-	-	
											1.0	-	-	29.5	29.5	8.1	8.1	14.7	14.7	92.3	92.3	6.5	6.5	3.5	3.5	4	4	-	4	-	-	-	-	-	-	
											2.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					Middle	2.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
						4.1	-	-	27.7	27.7	7.9	7.9	20.3	20.3	69.8	70.0	4.9	4.9	6.2	6.2	8	8	-	8	-	-	-	-	-	-	-					
						4.1	-	-	27.7	27.7	7.9	7.9	20.4	20.3	70.2	70.0	4.9	4.9	6.2	6.2	7	7	-	7	-	-	-	-	-	-	-					
					SR2	Cloudy	Moderate	13:40	4.5	Surface	1.0	0.5	76	29.7	29.8	8.1	8.1	13.5	13.4	93.8	93.6	6.6	6.6	2.8	3.3	4	5	81	86	821463	814152	<0.2	1.2	<0.2	1.4	
											1.0	0.5	77	29.8	8.1	8.1	13.4	13.4	93.4	93.4	6.6	6.6	2.9	2.9	4	4	82	4	82	4	82	4	<0.2	1.4	<0.2	1.4
											-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Middle	-	-	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
	3.5	0.4	119	28.4						8.0	8.0	17.0	17.1	77.4	77.4	5.5	5.5	3.6	3.6	5	5	89	5	89	5	89	5	<0.2	1.4	<0.2	1.4					
	3.5	0.5	123	28.3						8.0	8.0	17.1	17.1	77.3	77.4	5.5	5.5	3.8	3.8	6	6	90	6	90	6	90	6	<0.2	1.2	<0.2	1.2					
SR3	Cloudy	Moderate	12:39	8.6						Surface	1.0	0.3	175	28.7	28.7	8.0	8.0	15.4	15.3	79.1	79.1	5.6	4.8	2.8	5.5	3	4	-	-	822150	807568	-	-	-	-	
											1.0	0.3	188	28.7	8.0	8.0	15.3	15.3	79.1	79.1	5.6	5.6	2.8	2.8	3	3	-	3	-	-	-	-	-	-		
											4.3	0.1	186	27.2	7.9	7.9	21.9	21.9	56.2	56.3	4.0	4.0	5.2	5.2	4	4	-	4	-	-	-	-	-			
					Middle	4.3	0.1	193	27.2	7.9	7.9	21.9	21.9	56.3	56.3	4.0	4.0	5.2	5.2	4	4	-	4	-	-	-	-	-	-							
						7.6	0.1	56	26.4	7.9	7.9	25.9	26.0	52.7	52.9	3.7	3.7	8.5	8.5	4	4	-	4	-	-	-	-	-								
						7.6	0.1	57	26.4	7.9	7.9	26.0	26.0	53.0	52.9	3.7	3.7	8.5	8.5	5	5	-	5	-	-	-	-	-								
					SR4A	Cloudy	Calm	14:34	8.6	Surface	1.0	0.4	248	29.3	29.3	8.3	8.3	16.6	16.6	93.4	93.3	6.5	6.0	10.7	12.1	5	5	-	-	817202	807813	-	-	-	-	
											1.0	0.5	260	29.3	8.3	8.3	16.6	16.6	93.1	93.3	6.5	6.5	10.7	10.7	5	5	-	5	-	-	-	-	-			
											4.3	0.3	243	26.3	8.4	8.4	28.9	28.8	80.8	81.2	5.5	5.5	11.7	11.6	4	4	-	4	-	-	-	-				
Middle	4.3	0.3	245	26.5						8.4	8.4	28.8	28.8	81.6	81.2	5.6	5.6	11.6	11.6	5	5	-	5	-	-	-	-									
	7.6	0.1	249	25.6						8.7	8.7	30.7	30.7	68.8	69.3	4.7	4.7	14.0	14.0	5	5	-	5	-	-	-	-									
	7.6	0.1	263	25.6						8.7	8.7	30.7	30.7	69.8	69.3	4.8	4.8	13.9	13.9	4	4	-	4	-	-	-	-									
SR5A	Cloudy	Calm	14:52	3.7						Surface	1.0	0.1	346	30.2	30.2	8.5	8.5	15.9	15.9	128.1	127.7	8.9	8.9	11.5	12.1	7	8	-	-	816593	810684	-	-	-	-	
											1.0	0.1	318	30.2	8.5	8.5	15.9	15.9	127.2	127.2	8.8	8.8	11.5	11.												

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

Water Quality Monitoring Results on 18 July 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	Calm	06:42	8.8	Surface	1.0	0.2	49	27.4	27.4	8.0	8.0	22.1	22.1	69.3	69.1	4.9	4.1	10.3	5	86	88	88	88	815643	804258	<0.2	1.3	<0.2	1.3							
						1.0	0.3	55	27.4	27.4	8.0	8.0	22.1	22.1	68.8	68.8	4.8	4.1	10.3	5	85	88	88	88			<0.2	1.3	<0.2	1.3							
						4.4	0.3	66	25.3	25.3	8.4	8.4	31.6	31.6	48.6	49.0	3.3	4.1	15.2	5	88	88	88	88			<0.2	1.3	<0.2	1.3							
					4.4	0.3	66	25.3	25.3	8.4	8.4	31.6	31.6	49.3	49.3	3.4	4.4	15.4	5	88	88	88	88	<0.2			1.3	<0.2	1.3								
					7.8	0.3	73	25.3	25.3	8.3	8.3	31.8	31.8	64.0	64.4	4.4	4.4	20.2	4	89	88	88	88	<0.2			1.3	<0.2	1.3								
					7.8	0.3	80	25.3	25.3	8.3	8.3	31.8	31.8	64.7	64.7	4.4	4.4	20.5	5	89	88	88	88	<0.2			1.3	<0.2	1.3								
					1.0	0.2	44	29.3	29.3	8.0	8.0	13.7	13.7	83.2	83.0	5.9	4.7	3.2	3	85	85	85	85	<0.2			1.3	<0.2	1.3								
					1.0	0.2	48	29.3	29.3	8.0	8.0	13.7	13.7	82.7	82.7	5.9	4.7	3.2	3	85	85	85	85	<0.2			1.3	<0.2	1.3								
					5.9	0.4	47	27.1	27.1	7.9	7.9	22.0	22.1	50.2	49.9	3.5	3.1	7.2	6.2	3	87	88	88	88			<0.2	1.3	<0.2	1.3							
5.9	0.4	45	27.0	27.0	7.9	7.9	22.1	22.1	49.6	49.9	3.5	3.1	7.2	6.2	3	88	88	88	88	<0.2	1.3	<0.2	1.3														
10.7	0.6	47	25.5	25.5	7.9	7.9	28.8	28.7	44.9	44.9	3.1	3.1	8.2	5	90	88	88	88	<0.2	1.3	<0.2	1.3															
10.7	0.6	46	25.5	25.5	7.9	7.9	28.7	28.7	44.9	44.9	3.1	3.1	8.2	6	90	88	88	88	<0.2	1.3	<0.2	1.3															
C2	Cloudy	Moderate	07:35	11.7	Surface	1.0	0.2	44	29.3	29.3	8.0	8.0	13.7	13.7	83.2	83.0	5.9	4.7	3.2	3	85	85	85	85	825696	806945	<0.2	1.3	<0.2	1.3							
						1.0	0.2	48	29.3	29.3	8.0	8.0	13.7	13.7	82.7	82.7	5.9	4.7	3.2	3	85	85	85	85			<0.2	1.3	<0.2	1.3							
						5.9	0.4	47	27.1	27.1	7.9	7.9	22.0	22.1	50.2	49.9	3.5	3.1	7.2	6.2	3	87	88	88			88	<0.2	1.3	<0.2	1.3						
					5.9	0.4	45	27.0	27.0	7.9	7.9	22.1	22.1	49.6	49.9	3.5	3.1	7.2	6.2	3	88	88	88	88			<0.2	1.3	<0.2	1.3							
					10.7	0.6	47	25.5	25.5	7.9	7.9	28.8	28.7	44.9	44.9	3.1	3.1	8.2	5	90	88	88	88	<0.2			1.3	<0.2	1.3								
					10.7	0.6	46	25.5	25.5	7.9	7.9	28.7	28.7	44.9	44.9	3.1	3.1	8.2	6	90	88	88	88	<0.2			1.3	<0.2	1.3								
					1.0	0.3	74	28.3	28.3	8.1	8.1	17.9	17.8	87.7	87.7	6.2	5.4	1.8	3	85	85	85	85	<0.2			1.3	<0.2	1.3								
					1.0	0.3	77	28.3	28.3	8.1	8.1	17.9	17.8	87.7	87.7	6.2	5.4	1.9	4	85	85	85	85	<0.2			1.3	<0.2	1.3								
					5.7	0.5	256	26.5	26.5	8.0	8.0	24.8	24.9	66.2	66.0	4.6	4.7	1.7	2.3	4	87	88	88	88			<0.2	1.3	<0.2	1.3							
5.7	0.5	257	26.5	26.5	8.0	8.0	25.0	24.9	65.7	65.7	4.6	4.7	1.8	4	87	88	88	88	<0.2	1.3	<0.2	1.3															
10.4	0.2	313	24.8	24.8	8.0	8.0	31.2	31.2	52.6	52.8	3.7	3.7	3.3	5	89	88	88	88	<0.2	1.3	<0.2	1.3															
10.4	0.2	315	24.8	24.8	8.0	8.0	31.2	31.2	52.9	52.8	3.7	3.7	3.3	5	88	88	88	88	<0.2	1.3	<0.2	1.3															
IM1	Cloudy	Calm	07:07	5.1	Surface	1.0	0.1	17	27.1	27.0	8.2	8.2	24.3	24.3	66.3	66.4	4.6	4.6	13.5	8	86	86	86	86	817935	807147	<0.2	1.3	<0.2	1.3							
						1.0	0.1	20	27.0	27.0	8.2	8.2	24.4	24.3	66.4	66.4	4.6	4.6	13.6	8	86	86	86	86			<0.2	1.3	<0.2	1.3							
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-	-	-	-	-	-		
					4.1	0.1	20	26.2	26.2	8.1	8.1	28.4	28.4	70.9	71.4	4.9	5.0	15.1	7	87	87	87	87	<0.2			1.1	<0.2	1.1								
					4.1	0.1	22	26.2	26.2	8.1	8.1	28.4	28.4	71.9	71.9	4.9	5.0	15.0	7	88	88	88	88	<0.2			1.1	<0.2	1.1								
					IM2	Cloudy	Calm	07:14	7.9	Surface	1.0	0.3	67	27.5	27.4	7.9	7.9	22.3	22.3	66.1	66.1	4.6	4.7	10.3			4	84	85	85	85	818152	806163	<0.2	1.1	<0.2	1.1
											1.0	0.3	69	27.4	27.4	7.9	7.9	22.3	22.3	66.1	66.1	4.6	4.7	10.3			4	85	85	85	85			<0.2	1.1	<0.2	1.1
											4.0	0.3	63	26.0	25.9	8.3	8.3	29.0	29.0	67.3	67.3	4.7	4.7	11.2			5	89	89	89	89			<0.2	1.1	<0.2	1.1
										4.0	0.3	65	25.9	25.9	8.3	8.3	29.0	29.0	67.3	67.3	4.7	4.7	11.4	4			89	89	89	89	<0.2			1.1	<0.2	1.1	
6.9	0.2	59	25.6	25.6						8.2	8.2	30.7	30.7	67.8	68.2	4.7	4.7	13.0	7	90	89	89	89	<0.2	1.1	<0.2	1.1										
6.9	0.3	59	25.6	25.6						8.2	8.2	30.7	30.7	68.6	68.2	4.7	4.7	13.0	7	90	89	89	89	<0.2	1.1	<0.2	1.1										
1.0	0.2	69	27.5	27.5						7.9	7.9	22.5	22.5	66.7	66.7	4.6	4.6	10.4	4	85	85	85	85	<0.2	1.2	<0.2	1.2										
1.0	0.2	71	27.5	27.5						7.9	7.9	22.5	22.5	66.7	66.7	4.6	4.6	10.4	5	85	85	85	85	<0.2	1.2	<0.2	1.2										
4.4	0.2	51	25.7	25.7						8.2	8.2	30.2	30.2	67.2	67.2	4.6	4.6	15.4	5	86	86	86	86	<0.2	0.9	<0.2	0.9										
4.4	0.2	53	25.7	25.7	8.2	8.2	30.2	30.2	67.2	67.2	4.6	4.6	15.5	5	87	87	87	87	<0.2	0.9	<0.2	0.9															
7.8	0.2	54	25.6	25.6	8.1	8.1	30.5	30.5	66.4	66.4	4.6	4.6	16.6	5	88	88	88	88	<0.2	1.0	<0.2	1.0															
7.8	0.2	57	25.6	25.6	8.1	8.1	30.5	30.5	67.0	66.7	4.6	4.6	16.5	5	88	88	88	88	<0.2	1.0	<0.2	1.0															
IM4	Cloudy	Calm	07:32	8.6	Surface	1.0	0.7	58	27.4	27.4	8.0	8.0	22.8	22.8	69.3	69.3	4.8	4.8	11.1	5	85	85	85	85	819713	804590	<0.2	1.1	<0.2	1.1							
						1.0	0.8	58	27.5	27.5	8.0	8.0	22.8	22.8	69.3	69.3	4.8	4.8	11.0	4	85	85	85	85			<0.2	1.1	<0.2	1.1							
						4.3	0.4	61	25.9	25.9	8.3	8.3	29.9	29.9	68.2	68.3	4.7	4.7	17.7	4	88	88	88	88			<0.2	0.9	<0.2	0.9							
					4.3	0.5	66	25.9	25.9	8.3	8.3	29.9	29.9	68.4	68.4	4.7	4.7	17.7	5	89	89	89	89	<0.2			0.9	<0.2	0.9								
					7.6	0.4	78	25.6	25.6	8.3	8.3	30.2	30.2	54.1	54.3	3.7	3.8	23.2	8	89	89	89	89	<0.2			1.1	<0.2	1.1								
					7.6	0.5	84	25.6	25.6	8.3	8.3	30.2	30.2	54.5	54.3	3.7	3.8	23.3	8	90	89	89	89	<0.2			1.1	<0.2	1.1								
					1.0	0.7	52	29.3	29.3	8.1	8.1	14.0	13.9	80.6	80.4	5.7	5.2	10.7	2	84	84	84	84	<0.2			1.0	<0.2	1.0								
					1.0	0.7	53	29.3	29.3	8.1	8.1	13.9	13.9	80.2	80.2	5.7	5.2	10.8	3	84	84	84	84	<0.2			1.0	<0.2	1.0								
					4.2	0.5	55	26.3	26.3	8.3	8.3	23.5	23.5	65.0	65.2	4.6	4.6	14.8	3	88	88	88	88	<0.2			0.9	<0.2	0.9								
4.2	0.5	56	26.3	26.3	8.3	8.3	23.6	23.5	65.3	65.2	4.6	4.6	15.0	4	88	88	88	88	<0.2	0.8	<0.2	0.8															
7.4	0.3	41	26.0	26.0	8.1	8.1	29.1	2																													

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

Water Quality Monitoring Results on 18 July 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	07:09	7.3	Surface	1.0	0.3	318	29.1	29.1	8.0	8.0	12.3	12.3	78.9	78.7	5.7	2.7	2	<2	84	87	822091	808793	<0.2	1.5	1.4	1.4							
						1.0	0.4	322	29.1	29.1	8.0	12.3	12.3	78.4	78.7	5.6	2.9	2	<2	84	87	822091	808793	<0.2	1.4	1.4	1.4								
						3.7	0.3	306	27.7	27.7	7.9	7.9	19.4	19.4	62.7	62.8	4.4	4.3	2	3	89	87	822091	808793	<0.2	1.4	1.4	1.4							
					Middle	3.7	0.3	299	27.6	27.6	7.9	7.9	19.4	19.4	62.9	62.8	4.5	4.3	2	3	87	87	822091	808793	<0.2	1.3	1.4	1.4							
						6.3	0.3	283	27.0	27.0	7.9	7.9	23.0	22.9	56.8	56.9	4.0	7.8	5	5	90	88	822091	808793	<0.2	1.4	1.4	1.4							
						6.3	0.3	305	27.0	27.0	7.9	7.9	22.9	22.9	57.0	56.9	4.0	7.8	5	5	88	88	822091	808793	<0.2	1.4	1.4	1.4							
					IM10	Cloudy	Moderate	07:03	7.3	Surface	1.0	0.6	289	29.1	29.1	7.9	7.9	12.0	12.0	79.3	79.3	5.7	2.6	2	2	84	87	822391	809796	<0.2	1.4	1.4	1.4		
											1.0	0.6	286	29.1	29.1	7.9	7.9	12.0	12.0	79.2	79.3	5.7	2.5	2	3	85	87	822391	809796	<0.2	1.4	1.4	1.4		
											3.7	0.6	279	27.5	27.5	7.9	7.9	20.6	20.5	57.4	57.3	4.0	5.6	3	3	87	88	822391	809796	<0.2	1.3	1.4	1.4		
Middle	3.7	0.6	275	27.5						27.5	7.9	7.9	20.5	20.5	57.2	57.3	4.0	5.6	3	3	88	90	822391	809796	<0.2	1.4	1.4	1.4							
	6.3	0.5	283	27.1						27.1	7.9	7.9	22.7	22.7	55.5	55.6	3.9	11.9	4	4	90	89	822391	809796	<0.2	1.5	1.4	1.4							
	6.3	0.5	278	27.1						27.1	7.9	7.9	22.7	22.7	55.7	55.6	3.9	11.8	4	4	89	89	822391	809796	<0.2	1.4	1.4	1.4							
IM11	Cloudy	Moderate	06:56	7.8						Surface	1.0	0.8	273	28.9	28.9	7.9	7.9	14.8	14.8	75.2	75.2	5.3	3.0	2	3	84	87	822061	811480	<0.2	1.3	1.2	1.3		
											1.0	0.8	260	28.9	28.9	7.9	7.9	14.7	14.8	75.2	75.2	5.3	3.0	3	3	85	87	822061	811480	<0.2	1.2	1.2	1.3		
											3.9	0.6	256	27.6	27.6	7.9	7.9	22.0	22.0	58.9	59.2	4.1	5.1	2	2	87	88	822061	811480	<0.2	1.4	1.3	1.3		
					Middle	3.9	0.7	259	27.6	27.6	7.9	7.9	22.0	22.0	59.5	59.2	4.2	5.1	2	2	88	91	822061	811480	<0.2	1.3	1.3	1.3							
						6.8	0.2	251	26.9	26.9	7.9	7.9	23.6	23.6	58.9	59.0	4.1	5.5	6	6	91	88	822061	811480	<0.2	1.3	1.3	1.3							
						6.8	0.2	250	26.9	26.9	7.9	7.9	23.5	23.6	59.1	59.0	4.1	5.5	5	5	88	88	822061	811480	<0.2	1.3	1.3	1.3							
					IM12	Cloudy	Moderate	06:48	8.6	Surface	1.0	0.5	264	28.7	28.7	8.0	8.0	15.8	15.8	83.6	83.6	5.9	3.1	<2	3	83	87	821444	812049	<0.2	1.5	1.3	1.4		
											1.0	0.6	259	28.7	28.7	8.0	8.0	15.8	15.8	83.5	83.6	5.9	3.0	<2	3	84	88	821444	812049	<0.2	1.3	1.4	1.4		
											4.3	0.6	240	28.1	28.1	8.0	7.9	18.2	18.2	70.4	70.1	5.0	3.5	2	3	88	89	821444	812049	<0.2	1.4	1.4	1.4		
Middle	4.3	0.6	246	28.1						28.1	7.9	7.9	18.2	18.2	69.8	70.1	4.9	3.8	3	3	89	90	821444	812049	<0.2	1.4	1.4	1.4							
	7.6	0.3	249	26.4						26.4	7.9	7.9	26.0	26.0	57.8	57.9	4.0	6.3	3	3	90	88	821444	812049	<0.2	1.4	1.4	1.4							
	7.6	0.3	238	26.3						26.3	7.9	7.9	26.0	26.0	57.9	57.9	4.0	6.3	3	3	90	88	821444	812049	<0.2	1.4	1.4	1.4							
SR1A	Cloudy	Moderate	06:32	4.9						Surface	1.0	-	-	29.1	29.1	8.1	8.1	15.2	15.2	94.2	94.1	6.7	2.1	<2	-	-	819982	812666	-	-	-	-			
											1.0	-	-	29.1	29.1	8.1	8.1	15.2	15.2	94.0	94.1	6.6	2.1	<2	-	-	-	-	819982	812666	-	-	-	-	
											2.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	819982	812666	-	-	-	-
					Middle	2.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	819982	812666	-	-	-	-	-				
						3.9	-	-	27.8	27.8	8.0	8.0	19.5	19.5	77.1	77.3	5.4	2.8	2	2	-	-	-	-	819982	812666	-	-	-	-					
						3.9	-	-	27.8	27.8	8.0	8.0	19.5	19.5	77.4	77.3	5.5	2.8	2	2	-	-	-	-	819982	812666	-	-	-	-					
					SR2	Cloudy	Moderate	06:26	4.7	Surface	1.0	0.3	244	28.9	28.9	8.0	8.0	15.2	15.2	94.1	93.9	6.7	2.1	3	2	85	87	821448	814149	<0.2	1.3	1.3	1.3		
											1.0	0.3	232	28.8	28.8	8.0	8.0	15.3	15.2	93.7	93.9	6.7	2.2	2	2	85	87	821448	814149	<0.2	1.3	1.3	1.3		
											-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	821448	814149	<0.2	1.3	1.3	1.3
Middle	-	-	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	821448	814149	<0.2	1.3	1.3	1.3					
	3.7	0.2	241	28.0						28.0	8.0	8.0	18.9	18.9	80.1	80.2	5.6	2.6	4	4	90	89	821448	814149	<0.2	1.2	1.2	1.3							
	3.7	0.2	240	28.0						28.0	8.0	8.0	18.9	18.9	80.3	80.2	5.7	2.6	4	4	89	89	821448	814149	<0.2	1.2	1.2	1.3							
SR3	Cloudy	Moderate	07:18	8.2						Surface	1.0	0.3	49	29.1	29.1	8.0	8.0	13.3	13.3	84.6	84.7	6.0	2.5	2	-	-	822159	807582	-	-	-	-			
											1.0	0.3	49	29.0	29.0	8.0	8.0	13.3	13.3	84.8	84.7	6.1	2.6	2	-	-	-	-	822159	807582	-	-	-	-	
											4.1	0.1	48	27.9	27.9	7.9	7.9	18.7	18.7	64.5	64.6	4.6	4.1	3	3	-	-	-	-	822159	807582	-	-	-	-
					Middle	4.1	0.2	45	27.8	27.8	7.9	7.9	18.6	18.7	64.7	64.6	4.6	4.1	3	3	-	-	-	-	822159	807582	-	-	-	-					
						7.2	0.3	26	26.8	26.8	7.9	7.9	24.1	24.1	54.7	54.8	3.8	9.2	5	5	-	-	-	-	822159	807582	-	-	-	-					
						7.2	0.3	27	26.8	26.8	7.9	7.9	24.1	24.1	54.9	54.8	3.8	9.1	5	5	-	-	-	-	822159	807582	-	-	-	-					
					SR4A	Cloudy	Calm	06:17	9.7	Surface	1.0	0.0	208	28.2	28.2	7.9	7.9	19.5	19.5	72.8	72.8	5.1	11.6	5	4	-	-	817177	807830	-	-	-	-		
											1.0	0.0	217	28.2	28.2	7.9	7.9	19.5	19.5	72.7	72.8	5.1	11.6	4	4	-	-	-	-	817177	807830	-	-	-	-
											4.9	0.2	277	25.9	25.9	8.4	8.4	29.3	29.3	68.4	68.3	4.7	15.8	5	5	-	-	-	-	817177	807830	-	-	-	-
Middle	4.9	0.2	279	25.9						25.9	8.4	8.4	29.3	29.3	68.2	68.3	4.7	15.8	5	5	-	-	-	-	817177	807830	-	-	-	-					
	8.7	0.0	240	25.7						25.7	8.3	8.3	30.4	30.4	63.0	63.4	4.3	19.2	5	5	-	-	-	-	817177	807830	-	-	-	-					
	8.7	0.0	256	25.7						25.7	8.3	8.3	30.4	30.4	63.8	63.4	4.4	19.0	5	5	-	-	-	-	817177	807830	-	-	-	-					
SR5A	Cloudy	Calm	05:59	4.8						Surface	1.0	0.1	236	29.5	29.5	7.9	7.9	16.0	16.0	102.9	102.6	7.2	12.7	6	6	-	-	816606	810691	-	-	-	-		
											1.0	0.1	244	29.5	29.5	7.9	7.9	16.0	16.0	102.2	102.6	7.1	12.9	6	6	-	-	-	-	816606	810691	-	-	-	-
											-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	816606	810691	-	-	-	-
					Middle	-	-	-	-																										

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

Water Quality Monitoring

Water Quality Monitoring Results on 20 July 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	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA	Value	DA	
C1	Cloudy	Moderate	14:44	9.0	Surface	1.0	0.4	201	30.5	30.5	8.3	8.3	16.6	16.6	112.2	112.2	7.7	7.7	6.8	7.6	3	84	89	815620	804251	<0.2	1.8	<0.2	1.7							
						1.0	0.4	204	30.5	8.3	8.3	16.6	16.6	112.1	112.1	7.7	7.6	3	85	<0.2	1.7															
						4.5	0.3	199	29.7	8.2	8.2	23.0	23.1	86.3	86.3	5.8	5.8	4	90	<0.2	1.6															
					4.5	0.3	217	29.7	8.2	8.2	23.1	23.1	86.2	86.2	5.8	5.8	3	89	<0.2	1.6																
					8.0	0.3	190	29.4	8.1	8.1	26.0	25.7	71.9	72.0	4.8	4.8	4	93	<0.2	1.7																
					8.0	0.3	198	29.4	8.1	8.1	25.5	25.7	72.0	72.0	4.8	4.8	5	94	<0.2	1.5																
C2	Rainy	Moderate	13:30	12.0	Surface	1.0	0.4	12	27.8	27.8	7.9	7.9	10.3	10.2	67.0	66.8	5.0	4.5	4.5	3	85	87	825664	806944	<0.2	1.4	<0.2	1.3								
						1.0	0.5	12	27.7	7.9	7.9	10.2	10.2	66.6	66.6	5.0	4.5	3	84	<0.2	1.3															
						6.0	0.5	328	26.8	7.9	7.9	20.9	20.9	54.8	54.7	3.9	5.1	3	86	<0.2	1.3															
					6.0	0.6	347	26.7	7.9	7.9	20.9	20.9	54.5	54.5	3.9	5.5	3	88	<0.2	1.3																
					11.0	0.6	327	26.2	7.9	7.9	24.7	24.8	54.7	54.9	3.9	11.2	2	89	<0.2	1.4																
					11.0	0.6	357	26.2	7.9	7.9	24.8	24.8	55.0	54.9	3.9	11.6	3	89	<0.2	1.3																
C3	Cloudy	Moderate	15:02	11.4	Surface	1.0	0.2	143	27.4	27.4	8.0	8.0	20.3	20.3	71.7	71.7	5.1	2.5	4.8	4	84	87	822088	817785	<0.2	1.4	<0.2	1.2								
						1.0	0.2	145	27.4	8.0	8.0	20.3	20.3	71.6	71.6	5.1	2.5	4	85	<0.2	1.3															
						5.7	0.2	195	26.1	8.0	8.0	25.2	25.2	62.7	62.6	4.4	2.7	4	87	<0.2	1.1															
					5.7	0.2	213	26.1	8.0	8.0	25.2	25.2	62.5	62.4	4.4	2.7	4	87	<0.2	1.2																
					10.4	0.3	241	24.3	8.0	8.0	31.4	31.4	55.3	55.5	3.9	3.3	4	89	<0.2	1.1																
					10.4	0.3	247	24.3	8.0	8.0	31.4	31.4	55.7	55.7	3.9	3.2	4	89	<0.2	1.1																
IM1	Cloudy	Moderate	14:23	5.4	Surface	1.0	0.1	265	30.8	30.8	8.3	8.3	15.6	15.6	108.2	108.2	7.4	8.2	7.4	8.2	2	87	90	817926	807148	<0.2	1.2	<0.2	1.3							
						1.0	0.1	268	30.8	8.3	8.3	15.6	15.6	108.1	108.1	7.4	8.2	2	87	<0.2	1.3															
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-			-	-	-	-	-	-	-
					4.4	0.3	170	29.9	8.1	8.1	22.1	22.1	80.8	80.9	5.4	5.4	12.2	5	93	<0.2	1.3															
					4.4	0.4	175	29.9	8.1	8.1	22.0	22.1	80.9	80.9	5.4	5.4	12.2	5	93	<0.2	1.2															
					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-			-	-	-	-	-	-	-
IM2	Cloudy	Moderate	14:15	7.8	Surface	1.0	0.5	166	30.5	30.5	8.2	8.2	18.3	18.3	101.6	101.5	6.9	8.6	6.4	8.6	3	86	90	818141	806179	<0.2	1.1	<0.2	1.2							
						1.0	0.5	181	30.5	8.2	8.2	18.3	18.3	101.4	101.4	6.9	8.6	2	87	<0.2	1.1															
						3.9	0.4	154	30.1	8.2	8.2	20.8	20.8	86.8	86.7	5.8	11.5	2	90	<0.2	1.2															
					3.9	0.4	165	30.1	8.2	8.2	20.8	20.8	86.5	86.5	5.8	11.6	3	91	<0.2	1.2																
					6.8	0.4	153	29.1	8.1	8.1	26.9	26.9	66.0	66.1	4.4	10.3	3	94	<0.2	1.3																
					6.8	0.4	154	29.1	8.1	8.1	26.9	26.9	66.1	66.1	4.4	10.3	4	94	<0.2	1.3																
IM3	Cloudy	Moderate	14:07	8.1	Surface	1.0	0.2	231	31.0	31.0	8.3	8.3	16.8	16.8	108.9	108.9	7.4	8.5	6.5	8.5	4	86	90	818795	805597	<0.2	1.2	<0.2	1.2							
						1.0	0.3	233	31.0	8.3	8.3	16.8	16.8	108.8	108.8	7.4	8.5	5	86	<0.2	1.3															
						4.1	0.2	229	29.8	8.1	8.1	22.2	22.2	81.4	81.4	5.5	11.6	4	89	<0.2	1.3															
					4.1	0.2	239	29.8	8.1	8.1	22.2	22.2	81.4	81.4	5.5	11.6	4	90	<0.2	1.2																
					7.1	0.2	107	29.4	8.1	8.1	25.4	25.4	69.8	69.9	4.6	11.5	5	94	<0.2	1.2																
					7.1	0.2	109	29.4	8.1	8.1	25.3	25.4	69.9	69.9	4.6	11.5	5	93	<0.2	1.2																
IM4	Cloudy	Moderate	13:57	8.2	Surface	1.0	1.0	190	30.9	30.9	8.2	8.2	16.3	16.3	104.7	104.7	7.1	7.8	6.7	7.8	3	85	89	819727	804583	<0.2	1.2	<0.2	1.2							
						1.0	1.0	203	31.0	8.2	8.2	16.3	16.3	104.6	104.6	7.1	7.8	3	85	<0.2	1.2															
						4.1	0.8	176	30.0	8.2	8.2	21.2	21.2	93.5	93.6	6.3	10.7	3	89	<0.2	1.3															
					4.1	0.8	181	30.1	8.2	8.2	21.1	21.2	93.6	93.6	6.3	10.7	4	89	<0.2	1.2																
					7.2	0.4	177	29.3	8.1	8.1	25.6	25.6	68.1	68.2	4.5	11.8	4	94	<0.2	1.2																
					7.2	0.5	188	29.3	8.1	8.1	25.6	25.6	68.2	68.2	4.5	11.8	5	93	<0.2	1.2																
IM5	Cloudy	Moderate	13:48	7.6	Surface	1.0	0.8	214	30.9	30.9	8.2	8.2	16.0	16.0	103.2	103.2	7.0	7.8	6.1	7.8	3	86	90	820723	804876	<0.2	1.3	<0.2	1.3							
						1.0	0.8	234	30.9	8.2	8.2	16.0	16.0	103.1	103.1	7.0	7.8	4	88	<0.2	1.2															
						3.8	0.7	200	29.7	8.1	8.1	23.2	23.2	77.2	77.3	5.2	14.0	3	90	<0.2	1.3															
					3.8	0.7	207	29.7	8.1	8.1	23.2	23.2	77.3	77.3	5.2	14.1	3	91	<0.2	1.2																
					6.6	0.5	197	29.4	8.1	8.1	25.3	25.3	67.8	67.9	4.5	14.2	3	91	<0.2	1.2																
					6.6	0.5	199	29.4	8.1	8.1	25.3	25.3	68.0	68.0	4.5	14.2	3	92	<0.2	1.3																
IM6	Cloudy	Moderate	13:39	7.8	Surface	1.0	0.8	233	30.9	30.9	8.1	8.1	14.9	14.9	98.8	98.8	6.8	8.0	6.3	8.0	4	84	90	821062	805832	<0.2	1.3	<0.2	1.4							
						1.0	0.8	247	30.9	8.1	8.1	14.9	14.9	98.7	98.7	6.8	8.0	3	85	<0.2	1.4															
						3.9	0.6	241	29.8	8.2	8.2	21.5	21.6	84.0	84.0	5.7	9.9	3	90	<0.2	1.4															
					3.9	0.6	249	29.8	8.2	8.2	21.8	21.6	83.9	84.0	5.7	10.0	4	92	<0.2	1.4																
					6.8	0.4	239	29.4	8.1	8.1	24.8	24.8	71.2	71.3	4.7	13.4	6	92	<0.2	1.4																
					6.8	0.5	243	29.4	8.1	8.1	24.8	24.8	71.4	71.4	4.7	13.4	6	94	<0.2	1.3																
IM7	Cloudy	Moderate	13:31	8.8	Surface	1.0	0.4	205	31.1	31.1	8.2	8.2	14.0	14.0	101.6	101.6	7.0	7.7	6.6	7.7	4	86	90	821346	806818	<0.2	1.2	<0.2	1.3							
						1.0	0.4	210	31.1	8.2	8.2	14.0	14.0	101.6	101.6	7.0	7.7	4	86	<0.2	1.3															
						4.4	0.1	57	30.1	8.2	8.2	19.9	19.9	90.0	90.0	6.1	9.2	4	89	<0.2	1.4															
					4.4	0.1	59	30.1	8.2	8.2	19.9	19.9	89.9	90.0	6.1	9.2	3	90	<0.2	1.5																
					7.8	0.2	99	29.6	8.1	8.1	23.9	23.9	73.3	73.3	4.9	13.9	3	94	<0.2	1.2																
					7.8	0.2	108	29.6	8.1	8.1	23.9	23.9	73.3	73.3	4.9	13.9	3	93	<0.2	1.3																
IM8	Cloudy	Moderate	13:56	7.5	Surface	1.0	0.1	69	27.9	27.9	7.9	7.9	12.5	12.5	72.2	72.2	5.3	3.9	5.0	3.9	3	84	87	821835	808157	<0.2	1.2	<0.2	1.2							
						1.0	0.1	70	27.9	7.9	7.9	12.5	12.5	72.1	72.1	5.3	3.9	3	83	<0.2	1.2															
						3.8	0.4																													

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

Water Quality Monitoring

Water Quality Monitoring Results on 20 July 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	Moderate	14:02	7.8	Surface	1.0	0.3	50	27.5	27.5	7.9	7.9	15.8	15.7	69.8	69.8	5.0	4.7	3	85	87	822084	808813	<0.2	1.3	<0.2	1.2							
						1.0	0.3	54	27.4	7.9	7.9	15.6	15.6	69.8	5.0	4.8	3	84																
						3.9	0.3	50	26.8	7.9	7.9	20.9	20.9	61.2	61.2	4.3	6.0	3	88															
					Middle	3.9	0.3	53	26.8	7.9	7.9	20.9	20.9	61.2	61.2	4.3	5.8	4	86															
						6.8	0.3	38	26.6	7.9	7.9	22.5	22.5	56.6	56.7	4.0	5.7	4	89															
						6.8	0.3	41	26.6	7.9	7.9	22.5	22.5	56.7	56.7	4.0	5.7	4	90															
					Bottom	1.0	0.2	359	27.7	27.7	8.0	8.0	16.4	16.4	71.1	71.0	5.1	4.0	2	84														
						1.0	0.2	330	27.7	27.7	8.0	8.0	16.4	16.4	70.9	5.1	3.9	3	85															
						3.8	0.2	284	27.0	27.0	8.0	7.9	18.0	18.0	67.4	65.6	4.9	5.0	3	87														
Middle	3.8	0.2	303	27.0	27.0	7.9	7.9	18.0	18.0	63.8	4.6	5.2	3	87																				
	6.5	0.2	-	26.6	26.6	7.9	7.9	22.7	22.7	62.9	4.5	6.1	4	89																				
	6.5	0.2	-	26.5	26.6	7.9	7.9	22.8	22.8	63.3	4.5	6.2	3	90																				
IM11	Cloudy	Moderate	14:17	7.8	Surface	1.0	0.2	211	27.6	27.6	8.0	8.0	17.1	17.1	69.6	69.6	5.0	3.3	3	84	87	822042	811443	<0.2	1.2	<0.2	1.3							
						1.0	0.2	214	27.6	27.6	8.0	8.0	17.1	17.1	69.5	5.0	3.3	3	83															
						3.9	0.1	182	26.7	26.7	8.0	8.0	21.8	21.8	61.6	61.7	4.4	4.7	3	87														
					Middle	3.9	0.1	194	26.7	26.7	8.0	8.0	21.8	21.8	61.7	4.4	4.6	3	88															
						6.8	0.1	100	26.1	26.1	8.0	8.0	24.7	24.8	60.1	60.3	4.2	8.6	4	89														
						6.8	0.1	100	26.1	26.1	8.0	8.0	24.8	24.8	60.4	4.3	8.9	4	90															
					Bottom	1.0	0.2	98	27.8	27.8	8.0	8.0	16.9	16.9	72.7	72.6	5.2	3.1	2	84														
						1.0	0.2	103	27.8	27.8	8.0	8.0	16.9	16.9	72.5	5.2	3.1	2	85															
						4.2	0.1	329	25.9	25.9	8.0	8.0	22.0	22.0	63.4	63.4	4.5	7.5	3	86														
Middle	4.2	0.1	337	25.9	25.9	8.0	8.0	22.0	22.0	63.4	4.5	7.5	3	87																				
	7.3	0.1	209	25.5	25.5	8.0	8.0	27.1	27.1	53.2	53.3	3.7	10.2	3	88																			
	7.3	0.1	220	25.5	25.5	8.0	8.0	27.1	27.1	53.4	3.8	10.3	4	88																				
SR1A	Cloudy	Moderate	14:35	4.8	Surface	1.0	-	-	27.8	27.8	8.0	8.0	17.4	17.4	70.1	70.0	5.0	4.8	3	-	-	819973	812655	-	-	-	-							
						1.0	-	-	27.8	27.8	8.0	8.0	17.4	17.4	69.8	5.0	4.8	4	-															
						2.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-														
					Middle	2.4	-	-	-	-	-	-	-	-	-	-	-	-	-															
						3.8	-	-	26.2	26.2	8.0	8.0	23.2	23.0	60.5	60.4	4.3	11.1	6	-														
						3.8	-	-	26.1	26.2	8.0	8.0	22.7	23.0	60.2	4.3	11.8	6	-															
					SR2	Cloudy	Moderate	14:46	4.8	Surface	1.0	0.3	46	27.6	27.6	8.0	8.0	17.5	17.5	70.1	70.0	5.0	3.9	4	85			87	821454	814161	<0.2	1.4	<0.2	1.3
											1.0	0.3	46	27.6	27.6	8.0	8.0	17.5	17.5	69.8	5.0	4.0	5	83										
											-	-	-	-	-	-	-	-	-	-	-	-	-	-	-									
Middle	-	-	-	-						-	-	-	-	-	-	-	-	-	-															
	3.8	0.4	1	26.6						26.5	8.0	8.0	22.2	22.7	58.4	58.2	4.1	8.8	5	89														
	3.8	0.4	1	26.4						26.5	8.0	8.0	22.2	22.7	57.9	4.1	8.8	6	90															
SR3	Rainy	Moderate	13:51	8.4						Surface	1.0	0.1	137	27.8	27.8	7.9	7.9	12.5	12.5	69.5	69.6	5.1	6.6	4	-	-	822132	807576	-	-	-	-		
											1.0	0.1	146	27.8	27.8	7.9	7.9	12.4	12.5	69.6	5.1	6.5	4	-										
											4.2	0.4	88	27.6	27.6	8.0	8.0	16.3	16.3	66.9	66.9	4.8	3.7	4	-									
					Middle	4.2	0.4	95	27.6	27.6	8.0	8.0	16.3	16.3	66.8	4.8	3.7	4	-															
						7.4	0.3	42	26.3	26.4	7.9	7.9	23.3	23.3	58.2	58.4	4.1	7.3	5	-														
						7.4	0.3	45	26.4	26.4	7.9	7.9	23.3	23.3	58.6	4.2	7.3	4	-															
					Bottom	1.0	0.4	244	30.4	30.4	8.2	8.2	18.0	18.0	87.8	87.6	6.0	11.5	3	-														
						1.0	0.5	255	30.4	30.4	8.2	8.2	17.9	18.0	87.4	6.0	11.5	2	-															
						4.8	0.3	259	29.3	29.3	8.1	8.1	26.4	26.4	64.2	64.2	4.3	9.5	2	-														
Middle	4.8	0.3	270	29.3	29.3	8.1	8.1	26.4	26.4	64.2	4.3	9.5	3	-																				
	8.5	0.1	247	29.2	29.2	8.1	8.1	26.8	26.8	65.5	65.6	4.3	11.5	3	-																			
	8.5	0.1	264	29.2	29.2	8.1	8.1	26.8	26.8	65.6	4.3	11.5	3	-																				
SR5A	Cloudy	Calm	15:23	5.7	Surface	1.0	0.1	344	31.2	31.2	8.3	8.3	19.1	19.1	122.7	122.7	8.2	9.0	4	-	-	816582	810675	-	-	-	-							
						1.0	0.1	351	31.2	31.2	8.3	8.3	19.1	19.1	122.6	8.2	9.0	4	-															
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-														
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-															
						4.7	0.1	324	30.9	30.9	8.2	8.2	20.2	20.2	103.9	104.0	6.9	11.0	5	-														
						4.7	0.1	345	30.9	30.9	8.2	8.2	20.2	20.2	104.0	6.9	11.0	5	-															
					SR6	Cloudy	Calm	15:55	4.7	Surface	1.0	0.0	320	31.1	31.1	8.3	8.3	19.8	19.8	126.3	126.1	8.4	11.6	4	-			-	817902	814663	-	-	-	-
											1.0	0.0	339	31.1	31.1	8.3	8.3	19.8	19.8	125.9	8.4	11.6	4	-										
											-	-	-	-	-	-	-	-	-	-	-	-	-	-										
Middle	-	-	-	-						-	-	-	-	-	-	-	-	-																
	3.7	0.1	316	30.8						30.8	8.2	8.2	20.3	20.3	116.4	116.7	7.8	11.7	3	-														
	3.7	0.1	333	30.8						30.8	8.2	8.2	20.3	20.3	116.9	7.8	11.7	4	-															
SR7	Cloudy	Moderate	15:32	16.8						Surface	1.0	0.2	55	26.0	26.0	8.0	8.0	25.1	25.1	79.6	79.6	5.6	2.5	2	-	-	823628	823729	-	-	-	-		
											1.0	0.2	58	26.0	26.0	8.0	8.0	25.1	25.1	79.6	5.6	2.5	2	-										
											8.4	0.1	100	24.3	24.3	8.0	8.0	31.3	31.4	69.6	69.6	4.8	4.3	4	-									
					Middle	8.4	0.1	100	24.3	24.3	8.0	8.0	31.3	31.4	69.6	4.8	4.6	4	-															
						15.8	0.1	104	24.2	24.2	8.0	8.0	32.1	32.1	62.9	62.9	4.4	5.3	4	-														
						15.8	0.2	108	24.2	24.2	8.0	8.0	32.1	32.1	62.9	4.4	5.3	4	-															
					Bottom	1.0	-	-	28.0	28.0	8.0	8.0	16.5	16.6	74.7	74.6	5.3	3.1	3	-														
						1.0	-	-	27.9	28.0	8.0	8.0	16.6	16.6	74.4	5.3	3.1	3	-															
						-	-	-	-	-	-	-	-	-	-	-	-	-	-															
Middle	-	-	-	-	-	-	-	-	-	-	-	-	-																					
	4.1	-	-	26.9	26.9	8.0	8.0	21.1	21.2	56.3	56.1	4.0	8.7	3	-																			
	4.1	-	-	26.8	26.9	8.0	8.0	21.3	21.2	55.9	4.0	9.0	3	-																				

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 20 July 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	DA	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA	Value	DA	
C1	Cloudy	Moderate	07:42	9.5	Surface	1.0	0.2	25	29.2	29.2	8.0	8.0	25.6	25.6	64.0	64.1	4.3	5.1	11.4	9.4	<2	<2	86	90	90	815603	804258	<0.2	<0.2	1.3	1.3			
						1.0	0.3	26	29.2	29.2	8.0	8.0	25.5	25.6	64.1	64.1	4.3	5.1	11.4	9.4	<2	<2	87	90	90			<0.2	<0.2	1.1	1.1			
						4.8	0.3	20	29.8	29.8	8.0	8.0	16.6	16.6	84.7	84.7	5.9	5.9	7.7	9.0	<2	<2	90	93	93			<0.2	<0.2	1.3	1.3			
					4.8	0.3	21	29.8	29.8	8.0	8.1	16.6	20.3	84.6	84.6	5.9	5.3	7.7	9.0	<2	<2	90	93	93			<0.2	<0.2	1.3	1.3				
					8.5	0.3	21	30.0	30.0	8.1	8.1	20.3	20.3	78.2	78.2	5.3	5.3	9.1	9.1	<2	<2	93	93	93			<0.2	<0.2	1.4	1.4				
					8.5	0.3	21	30.0	30.0	8.1	8.1	20.3	20.3	78.2	78.2	5.3	5.3	9.1	9.1	<2	<2	93	93	93			<0.2	<0.2	1.4	1.4				
C2	Cloudy	Moderate	09:33	11.1	Surface	1.0	0.4	357	27.9	27.9	7.8	7.8	10.9	10.9	69.8	69.8	5.2	4.7	6.1	5.3	4	3	83	85	85	825683	806968	<0.2	<0.2	1.2	1.4			
						1.0	0.4	328	27.9	27.9	7.8	7.8	10.9	10.9	69.7	69.7	5.1	4.7	6.1	5.3	4	3	85	86	86			<0.2	<0.2	1.3	1.4			
						5.6	0.5	316	27.1	27.1	7.9	7.9	20.3	20.2	59.6	59.7	4.2	3.7	3.5	3	3	3	87	87	87			<0.2	<0.2	1.4	1.4			
					5.6	0.6	327	27.1	27.1	7.9	7.9	20.2	25.1	59.7	59.7	4.3	3.7	3.5	3	3	3	87	89	89			<0.2	<0.2	1.5	1.5				
					10.1	0.5	330	26.1	26.2	7.9	7.9	25.1	25.1	52.9	52.9	3.7	3.7	6.2	6.2	3	2	89	89	89			<0.2	<0.2	1.3	1.3				
					10.1	0.5	340	26.2	26.2	7.9	7.9	25.1	25.1	53.1	53.1	3.7	3.7	6.2	6.2	2	2	89	89	89			<0.2	<0.2	1.3	1.3				
C3	Cloudy	Moderate	07:56	12.0	Surface	1.0	0.6	242	27.5	27.5	8.0	8.0	17.3	17.3	67.4	67.4	4.8	4.4	3.8	5.0	3	3	85	84	84	822093	817821	<0.2	<0.2	1.4	1.4			
						1.0	0.6	264	27.5	27.5	8.0	8.0	17.3	17.3	67.3	67.3	4.8	4.4	3.7	5.0	3	3	85	87	87			<0.2	<0.2	1.5	1.4			
						6.0	0.4	235	26.5	26.5	8.0	8.0	23.2	23.2	57.3	57.0	4.1	4.0	2.9	4	4	4	87	87	87			<0.2	<0.2	1.4	1.4			
					6.0	0.5	257	26.5	26.5	8.0	8.0	23.2	30.8	57.0	57.0	4.0	3.3	2.9	4	4	4	87	89	89			<0.2	<0.2	1.4	1.4				
					11.0	0.5	270	24.6	24.6	8.0	8.0	30.8	30.8	47.6	47.7	3.3	3.3	8.5	8.5	4	3	89	89	89			<0.2	<0.2	1.3	1.3				
					11.0	0.5	295	24.6	24.6	8.0	8.0	30.8	30.8	47.7	47.7	3.3	3.3	8.5	8.5	3	3	89	89	89			<0.2	<0.2	1.3	1.3				
IM1	Cloudy	Moderate	08:01	5.7	Surface	1.0	0.1	19	29.7	29.7	8.0	8.0	15.9	15.9	85.2	85.2	5.9	5.9	8.3	9.3	2	3	88	88	88	817965	807130	<0.2	<0.2	1.6	1.6			
						1.0	0.1	20	29.7	29.7	8.0	8.0	15.9	15.9	85.1	85.1	5.9	5.9	8.3	9.3	3	3	88	88	88			<0.2	<0.2	1.6	1.6			
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					4.7	0.1	20	29.9	29.9	8.1	8.1	18.6	18.6	80.9	80.9	5.5	5.5	10.3	10.4	3	3	94	94	94			<0.2	<0.2	1.6	1.6				
					4.7	0.1	22	29.9	29.9	8.1	8.1	18.6	18.6	80.8	80.8	5.5	5.5	10.4	10.4	2	2	94	94	94			<0.2	<0.2	1.6	1.6				
					4.7	0.1	22	29.9	29.9	8.1	8.1	18.6	18.6	80.8	80.8	5.5	5.5	10.4	10.4	2	2	94	94	94			<0.2	<0.2	1.6	1.6				
IM2	Cloudy	Moderate	08:09	8.0	Surface	1.0	0.3	49	29.7	29.7	8.1	8.1	17.4	17.4	88.8	88.8	6.1	5.9	7.1	8.9	2	3	88	89	89	818166	806144	<0.2	<0.2	1.7	1.7			
						1.0	0.3	47	29.7	29.7	8.1	8.1	17.4	17.4	88.7	88.7	6.1	5.9	7.1	8.9	2	3	89	92	92			<0.2	<0.2	1.6	1.6			
						4.0	0.3	62	30.1	30.1	8.1	8.1	19.3	19.3	83.1	83.1	5.6	5.6	8.4	8.4	3	3	92	92	92			<0.2	<0.2	1.7	1.7			
					4.0	0.3	66	30.1	30.1	8.1	8.1	19.3	21.7	83.0	83.0	5.6	5.1	8.4	11.1	3	3	92	94	94			<0.2	<0.2	1.7	1.7				
					7.0	0.2	51	29.9	29.9	8.1	8.1	21.6	21.7	75.4	75.4	5.1	5.1	11.1	11.3	3	3	94	93	93			<0.2	<0.2	1.7	1.7				
					7.0	0.2	53	29.9	29.9	8.1	8.1	21.7	21.7	75.4	75.4	5.1	5.1	11.3	11.3	3	3	93	93	93			<0.2	<0.2	1.7	1.7				
IM3	Cloudy	Moderate	08:17	8.2	Surface	1.0	0.2	66	29.8	29.8	8.1	8.1	18.5	18.5	89.9	89.9	6.2	6.0	7.7	10.4	2	3	89	88	88	818782	805578	<0.2	<0.2	1.5	1.5			
						1.0	0.2	69	29.8	29.8	8.1	8.1	18.5	18.5	89.8	89.8	6.2	6.0	7.8	10.4	2	3	88	91	91			<0.2	<0.2	1.6	1.6			
						4.1	0.2	52	30.2	30.2	8.1	8.1	19.9	19.9	84.9	84.8	5.7	5.7	10.3	10.4	3	3	91	92	92			<0.2	<0.2	1.5	1.5			
					4.1	0.2	56	30.2	30.2	8.1	8.1	19.9	23.1	84.7	84.7	5.7	5.2	10.4	13.2	3	3	92	94	94			<0.2	<0.2	1.4	1.4				
					7.2	0.2	60	29.8	29.8	8.1	8.1	23.1	23.1	77.4	77.5	5.2	5.2	13.2	13.2	2	3	94	95	95			<0.2	<0.2	1.5	1.5				
					7.2	0.2	66	29.8	29.8	8.1	8.1	23.1	23.1	77.5	77.5	5.2	5.2	13.2	13.2	3	3	95	95	95			<0.2	<0.2	1.4	1.4				
IM4	Cloudy	Moderate	08:28	8.2	Surface	1.0	0.7	57	29.1	29.1	8.1	8.1	27.4	27.4	64.9	65.0	4.3	5.4	11.5	9.3	<2	<2	88	88	88	819731	804589	<0.2	<0.2	1.4	1.5			
						1.0	0.8	53	29.1	29.1	8.1	8.1	27.4	27.4	65.0	65.0	4.3	5.4	11.5	9.3	<2	<2	88	92	92			<0.2	<0.2	1.5	1.5			
						4.1	0.4	53	29.8	29.8	8.1	8.1	17.9	17.9	93.2	93.2	6.4	6.4	7.7	7.7	2	2	92	91	91			<0.2	<0.2	1.6	1.6			
					4.1	0.5	53	29.8	29.8	8.1	8.1	17.9	21.3	93.1	93.1	6.4	6.0	7.7	8.7	2	2	91	94	94			<0.2	<0.2	1.5	1.5				
					7.2	0.4	48	30.0	30.0	8.1	8.1	21.4	21.3	88.3	88.3	5.9	6.0	8.7	8.7	2	2	94	95	95			<0.2	<0.2	1.4	1.5				
					7.2	0.5	49	30.0	30.0	8.1	8.1	21.1	21.3	88.3	88.3	6.0	6.0	8.7	8.7	2	2	95	95	95			<0.2	<0.2	1.5	1.5				
IM5	Cloudy	Moderate	08:37	7.6	Surface	1.0	0.7	55	29.8	29.8	8.1	8.1	23.6	23.6	78.7	78.9	5.2	5.5	10.8	11.2	2	3	88	89	89	820732	804855	<0.2	<0.2	1.5	1.7			
						1.0	0.7	59	29.8	29.8	8.1	8.1	23.6	23.6	79.0	79.0	5.3	5.5	10.8	10.8	2	3	89	94	94			<0.2	<0.2	1.4	1.8			
						3.8	0.5	44	29.7	29.7	8.1	8.1	15.6	15.6	83.6	83.5	5.8	5.8	10.7	10.7	3	3	94	93	93			<0.2	<0.2	1.7	1.7			
					3.8	0.5	45	29.7	29.7	8.1	8.1	15.6	25.2	83.4	83.4	5.8	5.5	10.7	12.2	2	4	93	95	95			<0.2	<0.2	1.8	1.9				
					6.6	0.3	38	29.4	29.4	8.1	8.1	25.2	25.2	70.3	70.3	4.7	4.7	12.2	12.2	4	3	95	95	95			<0.2	<0.2	1.9	1.8				
					6.6	0.3	35	29.4	29.4	8.1	8.1	25.2	25.2	70.3	70.3	4.7	4.7	12.2	12.2	3	3	95	95	95			<0.2	<0.2	1.8	1.8				
IM6	Cloudy	Moderate	08:45	7.7	Surface	1.0	0.5	42	30.5	30.5	8.2	8.2	20.3	20.3	96.6	96.6	6.5	6.4	11.1	10.0	2	3	89	88	88	821076	805845	<0.2	<0.2	1.8	1.9			
						1.0	0.5	43	30.5	30.5	8.2	8.2	20.3	20.3	96.6	96.6	6.5	6.4	11.1	11.1	2	3	88	92	92			<0.2	<0.2	1.8	1.8			
						3.9	0.3	38	30.2	30.2	8.1	8.1	18.4	18.4	91.0	91.1	6.2	6.2	8.2	8.2	3	3	92	93	93			<0.2	<0.2	2.0	2.0			
					3.9	0.4	40	30.2	30.2	8.1	8.1	18.4	20.4																					

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

Water Quality Monitoring

Water Quality Monitoring Results on 20 July 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	09:07	7.2	Surface	1.0	0.2	257	27.7	7.9	7.9	12.8	12.8	71.4	71.4	5.2	4.1	4.1	5	84	86	822110	808798	<0.2	1.5	1.5	1.5	<0.2	1.5											
						1.0	0.3	261	27.7	7.9	7.9	12.8	12.8	71.3	5.2	4.1	4	85	86	<0.2	1.4	1.5	1.5																	
						3.6	0.2	334	27.1	7.9	7.9	19.5	19.5	58.4	4.2	7.6	4	86	<0.2	1.4	1.5	1.5																		
					Middle	3.6	0.2	358	27.1	7.9	7.9	19.5	19.5	58.1	4.2	7.6	4	87	<0.2	1.4	1.5	1.5																		
						6.2	0.2	284	26.7	7.9	7.9	21.8	21.8	58.3	4.1	7.9	4	89	<0.2	1.6	1.6																			
						6.2	0.2	285	26.8	7.9	7.9	21.8	21.8	58.5	4.1	7.9	4	87	<0.2	1.6	1.6																			
					IM10	Cloudy	Moderate	09:00	8.0	Surface	1.0	0.8	308	27.8	7.9	7.9	14.5	14.5	69.8	69.8	5.1	3.9	3	85	86	822371	809808			<0.2	1.6	1.6	1.6	<0.2	1.6					
											1.0	0.8	324	27.8	7.9	7.9	14.5	14.5	69.8	5.1	4.0	4	84	<0.2	1.7	1.6	1.6													
											4.0	0.7	310	27.6	7.9	7.9	15.8	15.8	64.9	4.7	4.0	4	86	<0.2	1.6	1.6	1.6													
Middle	4.0	0.7	325	27.6						7.9	7.9	15.8	15.8	64.8	4.7	4.0	4	87	<0.2	1.7	1.6	1.6																		
	7.0	0.8	294	26.6						7.9	7.9	22.5	22.5	56.5	4.0	9.1	5	89	<0.2	1.6	1.6	1.6																		
	7.0	0.9	321	26.6						7.9	7.9	22.6	22.5	57.0	4.0	9.1	4	88	<0.2	1.6	1.6	1.6																		
IM11	Cloudy	Moderate	08:50	7.8						Surface	1.0	0.8	330	27.9	8.0	8.0	15.8	15.8	74.6	74.5	5.4	4.1	4	84	85	822043	811438	<0.2	1.6	1.6	1.6	<0.2	1.6							
											1.0	0.8	351	27.9	8.0	8.0	15.7	15.8	74.4	5.4	4.1	4	85	<0.2	1.6	1.6	1.6													
											3.9	0.6	327	26.6	7.9	7.9	22.2	22.2	53.3	3.8	6.1	4	87	<0.2	1.8	1.7	1.7													
					Middle	3.9	0.6	337	26.6	7.9	7.9	22.2	22.2	53.4	3.8	6.1	4	87	<0.2	1.7	1.6	1.6																		
						6.8	0.3	340	25.6	7.9	7.9	26.9	26.9	50.8	3.6	11.9	5	90	<0.2	1.4	1.4	1.4																		
						6.8	0.3	313	25.6	7.9	7.9	26.9	26.9	51.4	3.6	11.9	4	89	<0.2	1.4	1.4	1.4																		
					IM12	Cloudy	Moderate	08:46	8.3	Surface	1.0	0.8	302	27.8	8.0	8.0	16.4	16.4	72.6	72.5	5.2	4.1	3	83	84	821459	812022	<0.2	1.4	1.4	1.4			<0.2	1.4					
											1.0	0.9	317	27.8	8.0	8.0	16.4	16.4	72.3	5.2	4.2	3	84	<0.2	1.5	1.5	1.5													
											4.2	0.8	284	26.6	8.0	8.0	22.1	22.1	65.6	4.6	5.6	3	87	<0.2	1.5	1.5	1.5													
Middle	4.2	0.8	305	26.5						8.0	8.0	22.2	22.1	65.5	4.6	5.7	4	86	<0.2	1.7	1.7	1.7																		
	7.3	0.6	287	25.6						7.9	7.9	27.0	27.0	59.9	4.2	13.1	6	88	<0.2	1.4	1.4	1.4																		
	7.3	0.6	312	25.6						7.9	7.9	27.0	27.0	59.9	4.2	13.2	6	89	<0.2	1.4	1.4	1.4																		
SR1A	Cloudy	Moderate	08:27	4.8						Surface	1.0	-	-	27.9	8.0	8.0	14.7	14.7	69.6	69.4	5.0	4.3	4	-	-	819977	812657	-	-	-	-	-	-							
											1.0	-	-	27.8	8.0	8.0	14.7	14.7	69.1	5.0	4.3	4	-	-	-	-	-													
											2.4	-	-	-	-	-	-	-	-	-	-	5.0	-	-	-	-	-													
					Middle	2.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																	
						3.8	-	-	27.6	8.0	8.0	17.7	17.7	67.8	4.8	4.3	4	-	-	-	-	-	-																	
						3.8	-	-	27.6	8.0	8.0	17.8	17.7	67.8	4.9	4.4	4	-	-	-	-	-	-																	
					SR2	Cloudy	Moderate	08:16	4.7	Surface	1.0	0.0	126	27.5	7.9	7.9	17.2	17.2	62.6	62.6	4.5	4.7	3	86	86	821460	814157	<0.2	1.6	1.5	1.5			<0.2	1.5					
											1.0	0.0	134	27.5	7.9	7.9	17.2	17.2	62.6	4.5	4.7	3	86	<0.2	1.5	1.5	1.5													
											-	-	-	-	-	-	-	-	-	-	-	4.5	-	-	-	-	-	-												
Middle	-	-	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-																	
	3.7	0.1	109	26.7						7.9	7.9	21.9	21.9	55.5	3.9	9.5	4	89	<0.2	1.4	1.4	1.4																		
	3.7	0.1	118	26.7						7.9	7.9	21.9	21.9	55.7	4.0	9.6	4	89	<0.2	1.4	1.4	1.4																		
SR3	Cloudy	Moderate	09:18	8.3						Surface	1.0	0.2	280	27.6	7.9	7.9	12.4	12.3	64.4	64.3	4.7	4.1	4	-	-	822137	807553	-	-	-	-	-	-							
											1.0	0.2	299	27.6	7.9	7.9	12.3	12.3	64.2	4.7	4.2	4	-	-	-	-	-													
											4.2	0.1	35	27.3	7.9	7.9	17.3	17.3	60.1	59.9	4.3	5.2	4	-	-	-	-													
					Middle	4.2	0.2	36	27.2	7.9	7.9	17.3	17.3	59.6	4.3	5.2	4	-	-	-	-	-																		
						7.3	0.3	52	26.7	7.9	7.9	21.8	21.8	59.6	4.2	4.9	4	-	-	-	-	-																		
						7.3	0.3	53	26.7	7.9	7.9	21.8	21.8	59.8	4.2	4.9	5	-	-	-	-	-																		
					SR4A	Cloudy	Calm	07:18	10.0	Surface	1.0	0.0	200	29.6	8.0	8.0	23.0	23.0	71.1	71.2	4.8	8.6	2	-	-	817182	807807	-	-	-	-			-	-					
											1.0	0.0	205	29.6	8.0	8.0	23.1	23.0	71.2	4.8	8.6	2	-	-	-	-	-													
											5.0	0.2	280	30.2	8.1	8.1	17.8	17.8	84.1	84.1	5.8	8.6	3	-	-	-	-													
Middle	5.0	0.2	286	30.2						8.1	8.1	17.8	17.8	84.1	5.8	8.6	3	-	-	-	-	-																		
	9.0	0.0	245	30.2						8.1	8.1	18.6	18.6	80.6	5.5	10.9	2	-	-	-	-	-																		
	9.0	0.0	247	30.2						8.1	8.1	18.6	18.6	80.6	5.5	11.0	3	-	-	-	-	-																		
SR5A	Rainy	Calm	06:59	5.0						Surface	1.0	0.1	242	30.0	8.1	8.1	20.8	20.9	77.3	77.4	5.2	12.2	2	-	-	816606	810675	-	-	-	-	-	-							
											1.0	0.1	245	30.0	8.1	8.1	21.0	20.9	77.4	5.2	12.2	2	-	-	-	-	-													
											-	-	-	-	-	-	-	-	-	-	-	5.2	-	-	-	-	-													
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																	
						4.0	0.1	270	30.3	8.0	8.0	16.6	16.6	82.7	5.7	8.4	3	-	-	-	-	-																		
						4.0	0.1	274	30.3	8.0	8.0	16.6	16.6	82.6	5.7	8.4	3	-	-	-	-	-																		
					SR6	Rainy	Calm	06:34	4.7	Surface	1.0	0.1	288	30.3	8.0	8.0	17.6	17.6	79.1	79.1	5.4	10.9	2	-	-	817896	814667	-	-	-	-			-	-					
											1.0	0.1	293	30.3	8.0	8.0	1																							

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

Water Quality Monitoring

Water Quality Monitoring Results on 23 July 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	16:23	7.3	Surface	1.0	0.5	207	27.3	27.3	6.8	6.8	20.6	20.6	67.5	67.5	4.8	4.8	6.6	4	83	88	88	88	815625	804239	<0.2	1.3	<0.2	1.3							
						1.0	0.5	226	27.3	27.3	6.8	6.8	20.6	20.6	67.4	67.4	4.8	4.8	6.8	4	84	88	88	88													
						3.7	0.3	199	26.8	26.9	6.8	6.8	22.9	22.8	65.4	65.4	4.6	4.6	8.2	5	88	88	88	88													
					Middle	3.7	0.3	218	26.9	26.9	6.8	6.8	22.6	22.6	65.3	65.3	4.6	4.6	8.1	4	88	88	88	88													
						6.3	0.3	195	25.9	25.9	6.9	6.9	27.3	27.3	64.1	64.2	4.5	4.5	10.0	4	92	92	92	92													
						6.3	0.3	196	25.9	25.9	6.9	6.9	27.3	27.3	64.3	64.3	4.5	4.5	10.1	5	92	92	92	92													
					Bottom	1.0	0.2	316	27.7	27.7	7.6	7.6	12.6	12.6	63.9	63.7	4.7	4.7	4.3	5	85	89	89	89													
						1.0	0.2	328	27.7	27.7	7.6	7.6	12.6	12.6	63.5	63.7	4.7	4.7	4.3	5	86	89	89	89													
						5.9	0.3	325	26.2	26.2	7.6	7.6	22.9	22.9	54.0	54.1	3.8	3.8	2.3	4	89	89	89	89													
Bottom	5.9	0.3	353	26.2	26.2	7.6	7.6	22.9	22.9	54.1	54.1	3.8	3.8	2.3	5	89	89	89	89																		
	10.7	0.4	350	25.7	25.7	7.6	7.6	25.9	25.8	53.0	53.3	3.7	3.8	6.3	6	91	91	91	91																		
	10.7	0.4	351	25.7	25.7	7.6	7.6	25.8	25.8	53.6	53.6	3.8	3.8	6.5	5	91	91	91	91																		
C2	Cloudy	Moderate	15:10	11.7	Surface	1.0	0.2	316	27.7	27.7	7.6	7.6	12.6	12.6	63.9	63.7	4.7	4.7	4.3	5	85	89	89	89	825668	806945	<0.2	1.4	<0.2	1.6							
						1.0	0.2	328	27.7	27.7	7.6	7.6	12.6	12.6	63.5	63.7	4.7	4.7	4.3	5	86	89	89	89													
						5.9	0.3	325	26.2	26.2	7.6	7.6	22.9	22.9	54.0	54.1	3.8	3.8	2.3	4	89	89	89	89													
					Middle	5.9	0.3	353	26.2	26.2	7.6	7.6	22.9	22.9	54.1	54.1	3.8	3.8	2.3	5	89	89	89	89													
						10.7	0.4	350	25.7	25.7	7.6	7.6	25.9	25.8	53.0	53.3	3.7	3.8	6.3	6	91	91	91	91													
						10.7	0.4	351	25.7	25.7	7.6	7.6	25.8	25.8	53.6	53.6	3.8	3.8	6.5	5	91	91	91	91													
					Bottom	1.0	0.3	84	27.7	27.7	7.7	7.7	19.2	19.2	76.7	76.7	5.4	5.0	1.7	4	87	88	88	88													
						1.0	0.3	88	27.7	27.7	7.7	7.7	19.1	19.2	76.6	76.7	5.4	5.0	1.7	4	87	88	88	88													
						5.8	0.1	187	25.2	25.2	7.7	7.7	27.7	27.7	64.0	64.7	4.5	4.6	1.7	4	88	89	89	89													
Bottom	5.8	0.2	197	25.2	25.2	7.7	7.7	27.7	27.7	65.3	64.7	4.6	4.6	1.7	4	89	89	89	89																		
	10.5	0.2	249	24.4	24.4	7.7	7.7	31.4	31.4	64.9	65.7	4.5	4.6	2.5	4	90	90	90	90																		
	10.5	0.2	262	24.4	24.4	7.7	7.7	31.3	31.4	66.5	65.7	4.7	4.6	2.5	5	90	90	90	90																		
IM1	Fine	Moderate	15:52	4.2	Surface	1.0	0.1	266	27.2	27.2	6.9	6.9	19.7	19.7	66.5	66.4	4.7	4.7	3.6	5	81	86	86	86	817931	807112	<0.2	1.1	<0.2	1.1							
						1.0	0.1	280	27.2	27.2	6.9	6.9	19.8	19.7	66.2	66.4	4.7	4.7	3.7	4	81	86	86	86													
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-			-	-	-	-	-	-	-
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-			-	-	-	-	-	-	-
						3.2	0.3	169	26.2	26.2	6.8	6.8	28.2	28.2	58.1	58.2	4.1	4.1	4.1	5	91	91	91	91													
						3.2	0.3	169	26.3	26.3	6.8	6.8	28.2	28.2	58.2	58.2	4.1	4.1	4.2	5	92	92	92	92													
					Bottom	1.0	0.5	171	27.5	27.5	6.9	6.9	19.7	19.7	67.7	67.6	4.8	4.8	3.2	3	83	88	88	88													
						1.0	0.5	174	27.5	27.5	6.9	6.9	19.7	19.7	67.5	67.6	4.8	4.8	3.3	3	84	88	88	88													
						4.0	0.4	154	26.4	26.3	6.9	6.9	23.7	23.7	66.2	68.2	4.7	4.8	5.8	3	88	88	88	88													
Bottom	4.0	0.4	155	26.3	26.3	6.9	6.9	23.7	23.7	70.2	68.2	4.8	4.8	5.8	4	88	88	88	88																		
	6.9	0.4	157	25.8	25.8	6.8	6.8	27.1	27.7	57.9	57.9	4.0	4.0	6.4	3	91	91	91	91																		
	6.9	0.4	157	25.8	25.8	6.8	6.8	28.2	27.7	57.9	57.9	4.0	4.0	6.4	3	91	91	91	91																		
IM2	Fine	Moderate	15:46	7.9	Surface	1.0	0.2	237	27.3	27.3	6.8	6.8	19.7	19.7	70.1	70.1	5.0	4.9	3.1	3	84	88	88	88	818148	806172	<0.2	1.2	<0.2	1.2							
						1.0	0.2	258	27.3	27.3	6.8	6.8	19.7	19.7	70.0	70.1	5.0	4.9	3.2	3	84	88	88	88													
						3.9	0.2	221	25.8	25.8	6.9	6.9	27.0	27.0	66.9	67.2	4.7	4.7	5.4	3	88	88	88	88													
					Middle	3.9	0.2	237	25.8	25.8	6.9	6.9	27.0	27.0	67.5	67.2	4.7	4.7	5.5	3	88	88	88	88													
						6.8	0.3	124	25.5	25.5	6.9	6.9	29.4	29.4	54.1	54.2	3.8	3.8	6.5	3	91	91	91	91													
						6.8	0.3	125	25.5	25.5	6.9	6.9	29.4	29.4	54.3	54.2	3.8	3.8	6.7	2	92	92	92	92													
					Bottom	1.0	1.0	209	27.0	27.0	6.8	6.8	20.7	20.7	76.6	76.6	5.3	4.6	2.2	4	83	88	88	88													
						1.0	1.1	226	27.0	27.0	6.8	6.8	20.7	20.7	76.5	76.6	5.3	4.6	2.3	4	83	88	88	88													
						4.0	0.8	189	26.0	26.0	6.8	6.8	26.4	26.4	56.6	56.7	3.9	3.6	4.6	3	84	88	88	88													
Bottom	4.0	0.9	193	26.0	26.0	6.8	6.8	26.4	26.4	56.8	56.7	4.0	4.0	4.5	4	88	88	88	88																		
	7.0	0.4	177	25.6	25.6	6.8	6.8	28.4	28.4	51.5	51.6	3.6	3.6	5.2	4	91	91	91	91																		
	7.0	0.4	189	25.6	25.6	6.8	6.8	28.4	28.4	51.7	51.6	3.6	3.6	5.2	3	92	92	92	92																		
IM3	Fine	Moderate	15:40	7.8	Surface	1.0	0.2	237	27.3	27.3	6.8	6.8	19.7	19.7	70.1	70.1	5.0	4.9	3.1	3	84	88	88	88	818795	805578	<0.2	1.2	<0.2	1.1							
						1.0	0.2	258	27.3	27.3	6.8	6.8	19.7	19.7	70.0	70.1	5.0	4.9	3.2	3	84	88	88	88													
						3.9	0.2	221	25.8	25.8	6.9	6.9	27.0	27.0	66.9	67.2	4.7	4.7	5.4	3	88	88	88	88													
					Middle	3.9	0.2	237	25.8	25.8	6.9	6.9	27.0	27.0	67.5	67.2	4.7	4.7	5.5	3	88	88	88	88													
						6.8	0.3	124	25.5	25.5	6.9	6.9	29.4	29.4	54.1	54.2	3.8	3.8	6.5	3	91	91	91	91													
						6.8	0.3	125	25.5	25.5	6.9	6.9	29.4	29.4	54.3	54.2	3.8	3.8	6.7	2	92	92	92	92													
					Bottom	1.0	0.8	245	27.5	27.5	6.8	6.8	20.0	20.0	74.1	74.2	5.2	5.1	4.2	4	84	88	88	88													
						1.0	0.9	249	27.5	27.5	6.8	6.8	20.0	20.0	74.2	74.2	5.2	5.1	4.3	4	84	88	88	88													
						4.1	0.6	254	27.0	27.0	6.8	6.8	21.2	21.2	70.0	70.0	5.0	4.9	6.5	4	88	88	88	88													
Bottom	4.1	0.6	266	27.0	27.0	6.8	6.8	21.2	21.2	69.9	70.0	4.9	4.9	6.5	4	88	88	88	88																		
	7.2	0.4	233	26.0	26.0	6.8	6.8	25.5	26.2	50.2	50.4	3.5	3.5	8.1	6	92	92	92	92																		
	7.2	0.4	249	26.0	26.0	6.8	6.8	26.8	26.2	50.5	50.4	3.5	3.5	8.1	4	93	93	93	93																		
IM4																																					

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

Water Quality Monitoring

Water Quality Monitoring Results on 23 July 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	Moderate	15:46	7.8	Surface	1.0	0.1	139	27.7	7.7	7.7	17.3	17.3	72.8	72.8			5.2	2.6	4.0	4	85	88
					Surface	1.0	0.1	147	27.7	7.7	7.7	17.3	17.3	72.7	72.7	5.2	2.7	4.0	3	85	88	88			<0.2	1.3	<0.2	1.3			
					Middle	3.9	0.1	68	26.4	7.6	7.6	21.3	21.3	56.9	57.0	4.1	4.5	4.0	5	88	89	89			<0.2	1.4	<0.2	1.3			
					Middle	3.9	0.1	73	26.3	7.6	7.6	21.3	21.3	57.0	57.0	4.1	4.5	4.0	4	89	89	89			<0.2	1.3	<0.2	1.3			
					Bottom	6.8	0.3	60	25.9	7.7	7.7	25.3	25.3	59.3	61.9	4.2	5.1	4.0	4	89	89	89			<0.2	1.3	<0.2	1.3			
					Bottom	6.8	0.3	62	26.0	7.7	7.7	25.2	25.2	64.4	64.4	4.5	5.0	4.0	3	89	89	89			<0.2	1.3	<0.2	1.3			
IM10	Cloudy	Moderate	15:55	9.4	Surface	1.0	0.3	336	27.3	7.7	7.7	17.4	17.4	72.2	72.2	5.2	2.5	3.4	4	86	88	88	822390	809795	<0.2	1.2	<0.2	1.2			
					Surface	1.0	0.4	338	27.2	7.7	7.7	17.4	17.4	72.1	72.1	5.2	2.6	3.4	5	86	88	88			<0.2	1.2	<0.2	1.2			
					Middle	4.7	0.5	316	26.6	7.7	7.7	20.7	20.7	67.0	67.1	4.8	2.7	3.4	5	88	88	88			<0.2	1.2	<0.2	1.2			
					Middle	4.7	0.6	319	26.6	7.7	7.7	20.7	20.7	67.2	67.2	4.8	3.0	3.4	6	88	88	88			<0.2	1.2	<0.2	1.2			
					Bottom	8.4	0.2	308	26.0	7.7	7.7	24.2	24.2	64.8	65.4	4.6	4.9	4.0	4	89	89	89			<0.2	1.2	<0.2	1.2			
					Bottom	8.4	0.2	320	26.0	7.7	7.7	24.2	24.2	66.0	66.0	4.7	4.8	4.0	5	90	90	90			<0.2	1.2	<0.2	1.3			
IM11	Cloudy	Moderate	16:06	8.7	Surface	1.0	0.2	230	27.3	7.7	7.7	18.9	18.9	72.1	72.0	5.1	1.8	2.4	3	86	88	88	822060	811464	<0.2	1.2	<0.2	1.1			
					Surface	1.0	0.2	232	27.3	7.7	7.7	18.9	18.9	71.9	71.9	5.1	1.9	2.4	3	85	88	88			<0.2	1.1	<0.2	1.1			
					Middle	4.4	0.3	277	26.5	7.7	7.7	21.5	21.5	64.3	64.3	4.6	1.8	2.4	3	88	89	89			<0.2	1.2	<0.2	1.1			
					Middle	4.4	0.3	290	26.5	7.7	7.7	21.5	21.5	64.3	64.3	4.6	1.7	2.4	4	88	89	89			<0.2	1.1	<0.2	1.1			
					Bottom	7.7	0.2	322	25.8	7.7	7.7	24.2	24.2	62.4	62.5	4.4	3.5	3.6	3	90	90	90			<0.2	1.1	<0.2	1.1			
					Bottom	7.7	0.2	345	25.8	7.7	7.7	24.2	24.2	62.6	62.6	4.5	3.6	3.6	4	90	90	90			<0.2	1.2	<0.2	1.2			
IM12	Cloudy	Moderate	16:13	8.1	Surface	1.0	0.3	202	26.9	7.7	7.7	19.7	19.7	72.5	72.7	5.2	12.7	7.1	2	87	89	89	821450	812051	<0.2	1.1	<0.2	1.4			
					Surface	1.0	0.3	215	26.9	7.7	7.7	19.7	19.7	72.8	72.7	5.2	12.7	7.1	3	87	88	88			<0.2	1.2	<0.2	1.2			
					Middle	4.1	0.1	243	26.6	7.7	7.7	24.7	24.7	60.2	61.1	4.2	3.6	4.0	2	88	89	89			<0.2	1.2	<0.2	1.2			
					Middle	4.1	0.1	264	26.7	7.7	7.7	24.6	24.7	62.0	62.0	4.3	3.4	4.0	3	88	89	89			<0.2	1.2	<0.2	1.2			
					Bottom	7.1	0.1	136	25.5	7.7	7.7	26.4	26.4	62.9	63.7	4.4	5.1	4.5	2	91	91	91			<0.2	1.1	<0.2	1.1			
					Bottom	7.1	0.1	139	25.5	7.7	7.7	26.4	26.4	64.4	64.4	4.5	5.0	4.5	3	91	91	91			<0.2	1.1	<0.2	1.1			
SR1A	Cloudy	Calm	16:42	4.3	Surface	1.0	-	-	27.5	7.7	7.7	18.5	18.5	73.1	73.0	5.2	1.9	1.9	3	-	-	-	819977	812662	-	-	-	-			
					Surface	1.0	-	-	27.4	7.7	7.7	18.6	18.6	72.9	73.0	5.2	1.9	1.9	4	-	-	-			-	-	-	-			
					Middle	2.2	-	-	-	-	-	-	-	-	-	-	-	-	1.9	-	-	-			-	-	-	-			
					Middle	2.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-			
					Bottom	3.3	-	-	26.6	7.7	7.7	22.2	22.2	64.1	64.3	4.5	1.9	4.6	3	-	-	-			-	-	-	-			
					Bottom	3.3	-	-	26.7	7.7	7.7	22.2	22.2	64.5	64.5	4.6	1.9	4.6	4	-	-	-			-	-	-	-			
SR2	Cloudy	Moderate	16:54	5.5	Surface	1.0	0.4	349	27.1	7.7	7.7	20.2	20.2	73.8	73.7	5.2	2.6	2.9	4	86	86	86	821464	814169	<0.2	1.0	<0.2	0.9			
					Surface	1.0	0.4	349	27.1	7.7	7.7	20.2	20.2	73.6	73.7	5.2	2.6	2.6	4	86	86	86			<0.2	1.0	<0.2	0.9			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	2.9	-	-	-			<0.2	1.0	<0.2	1.0			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			<0.2	1.0	<0.2	1.0			
					Bottom	4.5	0.3	339	25.7	7.7	7.7	26.3	26.2	65.6	66.5	4.6	3.3	4.7	6	88	88	88			<0.2	1.0	<0.2	1.0			
					Bottom	4.5	0.3	358	25.7	7.7	7.7	26.2	26.2	67.3	67.3	4.7	3.2	4.7	5	89	89	89			<0.2	1.0	<0.2	1.0			
SR3	Cloudy	Moderate	15:32	8.9	Surface	1.0	0.1	283	27.1	7.6	7.6	15.7	15.7	63.0	63.0	4.6	2.8	8.8	4	-	-	-	822161	807558	-	-	-	-			
					Surface	1.0	0.1	305	27.1	7.6	7.6	15.7	15.7	63.0	63.0	4.6	2.9	8.8	4	-	-	-			-	-	-	-			
					Middle	4.5	0.2	73	26.6	7.6	7.6	22.7	22.7	66.1	66.1	4.7	13.7	13.7	4	-	-	-			-	-	-	-			
					Middle	4.5	0.2	78	26.6	7.6	7.6	22.7	22.7	66.0	66.1	4.7	13.7	13.7	3	-	-	-			-	-	-	-			
					Bottom	7.9	0.3	74	25.8	7.7	7.7	24.8	24.8	54.8	55.5	3.9	9.9	9.9	4	-	-	-			-	-	-	-			
					Bottom	7.9	0.3	75	25.8	7.7	7.7	24.8	24.8	56.1	56.1	4.0	9.7	9.7	4	-	-	-			-	-	-	-			
SR4A	Fine	Moderate	16:54	8.6	Surface	1.0	0.4	241	28.0	7.0	7.0	18.2	18.2	76.7	76.7	5.4	6.3	8.5	4	-	-	-	817192	807810	-	-	-	-			
					Surface	1.0	0.5	243	28.0	7.0	7.0	18.2	18.2	76.6	76.7	5.4	6.4	8.5	5	-	-	-			-	-	-	-			
					Middle	4.3	0.3	247	27.0	7.0	7.0	21.1	21.1	66.3	66.3	4.7	8.6	8.6	4	-	-	-			-	-	-	-			
					Middle	4.3	0.3	256	27.0	7.0	7.0	21.1	21.1	66.2	66.3	4.7	8.6	8.6	4	-	-	-			-	-	-	-			
					Bottom	7.6	0.1	250	26.7	7.0	7.0	23.1	23.1	65.4	65.5	4.6	10.6	10.6	5	-	-	-			-	-	-	-			
					Bottom	7.6	0.1	261	26.7	7.0	7.0	23.1	23.1	65.5	65.5	4.6	10.4	10.4	4	-	-	-			-	-	-	-			
SR5A	Fine	Calm	17:13	3.8	Surface	1.0	0.1	344	28.3	6.9	6.9	18.7	18.7	87.9	87.9	6.2	4.1	6.2	6	-	-	-	816591	810672	-	-	-	-			
					Surface	1.0	0.1	316	28.3	6.9	6.9	18.7	18.7	87.9	87.9	6.2	4.1	6.2	5	-	-	-			-	-	-	-			

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

Water Quality Monitoring Results on 23 July 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	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	10:55	7.6	Surface	1.0	0.2	336	27.6	27.6	7.7	7.7	15.0	15.1	76.2	76.2	5.5	5.5	2.6	4	85	88	822074	808827	<0.2	1.5	1.4	1.4			
						1.0	0.2	327	27.5	27.5	7.7	7.7	15.1	15.1	76.1	76.1	5.5	5.5	2.6	3	85	88	<0.2	1.4	1.4	1.4					
						3.8	0.5	326	27.0	27.0	7.7	7.7	17.3	17.3	68.8	68.8	5.0	5.0	2.9	3	88	88	<0.2	1.4	1.4	1.4					
					Middle	3.8	0.5	334	27.0	27.0	7.7	7.7	17.3	17.3	68.7	68.8	5.0	5.0	2.8	3	88	88	<0.2	1.4	1.4	1.4					
						6.6	0.3	303	26.3	26.4	7.6	7.6	22.4	22.4	60.0	60.4	4.3	4.3	5.6	3	89	89	<0.2	1.3	1.3	1.5					
						6.6	0.3	301	26.5	26.5	7.6	7.6	22.4	22.4	60.7	60.4	4.3	4.3	5.6	3	90	90	<0.2	1.5	1.5	1.5					
IM10	Sunny	Moderate	10:45	8.1	Surface	1.0	0.5	318	27.0	27.0	7.6	7.6	17.1	17.1	67.5	67.5	4.9	4.9	2.6	2	86	86	822365	809775	<0.2	1.5	1.5	1.5			
						1.0	0.5	311	27.0	27.0	7.6	7.6	17.1	17.1	67.5	67.5	4.9	4.9	2.6	2	86	86	<0.2	1.4	1.4	1.4					
						4.1	0.4	305	26.2	26.2	7.6	7.6	21.2	21.3	64.4	64.4	4.7	4.7	5.3	3	88	88	<0.2	1.5	1.5	1.5					
					Middle	4.1	0.5	295	26.2	26.2	7.6	7.6	21.3	21.3	64.3	64.3	4.7	4.7	6.0	2	89	89	<0.2	1.4	1.4	1.4					
						7.1	0.3	274	26.2	26.3	7.6	7.6	24.5	24.5	59.3	59.9	4.2	4.3	11.6	3	89	89	<0.2	1.4	1.4	1.4					
						7.1	0.3	285	26.3	26.3	7.6	7.6	24.4	24.5	60.5	60.5	4.3	4.3	11.5	3	90	90	<0.2	1.5	1.5	1.5					
IM11	Sunny	Moderate	10:33	8.8	Surface	1.0	0.4	284	27.1	27.1	7.7	7.7	16.1	16.1	72.1	72.1	5.2	5.2	2.7	2	85	85	822066	811463	<0.2	1.6	1.6	1.6			
						1.0	0.4	289	27.1	27.1	7.7	7.7	16.1	16.1	72.0	72.0	5.2	5.2	2.7	2	85	85	<0.2	1.6	1.6	1.6					
						4.4	0.4	285	26.4	26.4	7.6	7.6	21.1	21.2	56.7	56.6	4.1	4.1	2.4	2	88	88	<0.2	1.6	1.6	1.6					
					Middle	4.4	0.5	306	26.4	26.4	7.6	7.6	21.3	21.2	56.5	56.6	4.0	4.0	2.5	3	88	88	<0.2	1.6	1.6	1.6					
						7.8	0.3	262	25.1	25.1	7.6	7.6	28.4	28.5	54.8	57.4	3.9	4.1	9.1	3	90	90	<0.2	1.6	1.6	1.6					
						7.8	0.3	277	25.1	25.1	7.6	7.6	28.5	28.5	60.0	60.0	4.2	4.1	9.4	3	89	89	<0.2	1.6	1.6	1.6					
IM12	Sunny	Moderate	10:26	8.4	Surface	1.0	0.3	278	26.8	26.8	7.6	7.6	18.6	18.6	63.6	63.7	4.6	4.6	4.0	2	86	86	821441	812066	<0.2	1.7	1.7	1.7			
						1.0	0.4	285	26.8	26.8	7.6	7.6	18.6	18.6	63.7	63.7	4.6	4.6	3.8	2	86	86	<0.2	1.7	1.7	1.7					
						4.2	0.4	277	26.4	26.4	7.6	7.6	21.0	21.0	66.4	66.4	4.8	4.7	2.5	3	87	87	<0.2	1.7	1.7	1.7					
					Middle	4.2	0.4	278	26.4	26.4	7.6	7.6	21.0	21.0	66.3	66.4	4.7	4.7	2.5	3	87	87	<0.2	1.7	1.7	1.7					
						7.4	0.4	252	25.0	25.0	7.6	7.6	28.7	28.8	49.9	50.3	3.5	3.6	6.3	4	90	90	<0.2	1.5	1.5	1.5					
						7.4	0.4	263	25.0	25.0	7.6	7.6	28.8	28.8	50.7	50.7	3.6	3.6	6.3	5	90	90	<0.2	1.7	1.7	1.7					
SR1A	Cloudy	Calm	10:06	4.5	Surface	1.0	-	-	27.1	27.1	7.7	7.7	16.9	16.9	75.5	75.5	5.5	5.5	3.0	2	-	-	819975	812658	-	-	-	-			
						1.0	-	-	27.1	27.1	7.7	7.7	16.9	16.9	75.5	75.5	5.5	5.5	2.9	2	-	-	-	-	-	-	-	-			
						2.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
					Middle	2.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
						3.5	-	-	26.9	26.9	7.7	7.7	19.3	19.3	73.6	74.5	5.3	5.4	5.5	3	-	-	-	-	-	-	-	-	-		
						3.5	-	-	26.9	26.9	7.7	7.7	19.3	19.3	75.3	75.3	5.4	5.4	5.6	2	-	-	-	-	-	-	-	-	-		
SR2	Cloudy	Moderate	09:53	4.8	Surface	1.0	0.3	269	26.9	26.9	7.7	7.7	19.2	19.2	71.8	71.6	5.2	5.1	2.7	2	88	89	821458	814189	<0.2	1.2	1.1	1.2			
						1.0	0.3	265	26.9	26.9	7.7	7.7	19.2	19.2	71.4	71.4	5.1	5.1	2.8	2	89	89	<0.2	1.1	1.1	1.1					
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
						3.8	0.2	272	26.4	26.4	7.7	7.7	20.8	20.8	62.0	62.0	4.4	4.4	3.1	2	90	90	<0.2	1.4	1.4	1.4					
						3.8	0.3	266	26.4	26.4	7.7	7.7	20.8	20.8	62.0	62.0	4.4	4.4	3.1	4	91	91	<0.2	1.2	1.2	1.2					
SR3	Cloudy	Moderate	11:07	9.1	Surface	1.0	0.2	54	27.6	27.6	7.6	7.6	12.6	12.6	71.1	71.3	5.3	5.2	3.5	2	-	-	822148	807593	-	-	-	-			
						1.0	0.2	57	27.5	27.5	7.6	7.6	12.6	12.6	71.1	71.1	5.2	5.2	3.5	2	-	-	-	-	-	-	-	-			
						4.6	0.2	63	26.5	26.5	7.6	7.6	19.8	19.8	54.3	54.3	3.9	3.9	3.2	3	-	-	-	-	-	-	-	-			
					Middle	4.6	0.2	58	26.5	26.5	7.6	7.6	19.9	19.8	54.2	54.3	3.9	3.9	3.2	3	-	-	-	-	-	-	-	-	-		
						8.1	0.2	63	25.6	25.6	7.6	7.6	25.9	25.8	52.5	54.7	3.7	3.9	4.4	3	-	-	-	-	-	-	-	-			
						8.1	0.2	68	25.6	25.6	7.6	7.6	25.9	25.8	56.8	54.7	4.0	4.0	4.4	3	-	-	-	-	-	-	-	-			
SR4A	Cloudy	Moderate	09:40	10.4	Surface	1.0	0.0	210	27.8	27.8	6.8	6.8	18.7	18.7	70.6	70.6	5.0	5.0	9.8	4	-	-	817175	807804	-	-	-	-			
						1.0	0.0	217	27.8	27.8	6.8	6.8	18.7	18.7	70.6	70.6	5.0	5.0	9.8	2	-	-	-	-	-	-	-				
						5.2	0.2	282	26.3	26.3	6.9	6.9	25.7	25.7	66.5	66.5	4.7	4.7	12.5	4	-	-	-	-	-	-	-				
					Middle	5.2	0.2	265	26.3	26.3	6.9	6.9	25.7	25.7	66.5	66.5	4.7	4.7	12.6	4	-	-	-	-	-	-	-	-			
						9.4	0.0	232	25.8	25.8	6.8	6.8	28.7	28.7	71.5	72.0	5.0	5.0	13.4	3	-	-	-	-	-	-	-				
						9.4	0.0	236	25.8	25.8	6.8	6.8	28.7	28.7	72.5	72.5	5.0	5.0	13.4	3	-	-	-	-	-	-	-				
SR5A	Cloudy	Moderate	09:27	5.1	Surface	1.0	0.1	242	27.9	27.9	6.8	6.8	18.7	18.6	78.9	78.9	5.6	5.6	9.3	4	-	-	816613	810718	-	-	-	-			
						1.0	0.1	245	27.9	27.9	6.8	6.8	18.5	18.6	78.9	78.9	5.6	5.6	9.4	4	-	-	-	-	-	-	-				
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
						4.1	0.1	270	27.8	27.8	6.8	6.8	20.0	20.1	80.9	81.1	5.7	5.7	9.6	4	-	-	-	-	-	-	-				
						4.1	0.1	276	27.8	27.8	6.8	6.8	20.1	20.1	81.2	81.2	5.7	5.7	9.6	3	-	-	-	-	-	-	-				
SR6	Cloudy	Moderate	08:59	5.2	Surface	1.0	0.1	288	27.6	27.6	6.8	6.8	18.7	18.7	71.2	71.3	5.1	5.1	6.3	3	-	-	817882	814649	-	-	-	-			
						1.0	0.1	295	27.6	27.6	6.8	6.8	18.7	18.7																	

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

Water Quality Monitoring

Water Quality Monitoring Results on 25 July 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	Fine	Moderate	18:03	8.6	Surface	1.0	0.2	160	28.9	28.9	7.9	7.9	8.9	8.9	109.9	109.9	8.0	7.2	4.1	4	4	86	88	88	88	815640	804259	<0.2	1.1	<0.2	1.1					
						1.0	0.2	171	28.8	7.9	7.9	8.9	8.9	109.9	109.9	8.0	7.2	4.1	4	4	86	88	88	88	<0.2			1.1	<0.2	1.1						
						4.3	0.1	115	28.3	7.9	7.9	16.5	17.0	92.2	91.9	6.5	5.1	5.1	4	5	88	88	88	88	<0.2			1.1	<0.2	1.1						
					4.3	0.1	116	28.3	7.9	7.9	17.5	17.0	91.6	91.9	6.4	5.1	5.1	4	5	88	88	88	88	<0.2	1.1			<0.2	1.1							
					7.6	0.0	337	25.8	7.7	7.7	27.6	27.6	56.1	56.7	3.9	14.6	14.6	4	4	89	90	90	90	<0.2	1.1			<0.2	1.1							
					7.6	0.0	343	25.8	7.7	7.7	27.6	27.6	57.3	57.3	4.0	14.5	14.5	4	4	89	90	90	90	<0.2	1.1			<0.2	1.1							
C2	Fine	Moderate	16:48	11.6	Surface	1.0	0.4	221	28.0	28.1	7.7	7.7	10.8	10.8	114.4	114.4	8.4	6.4	4.5	4	4	86	85	85	85	825700	806946	<0.2	1.6	<0.2	1.7					
						1.0	0.4	200	28.1	7.7	7.7	10.8	10.8	114.4	114.4	8.4	4.5	4.5	4	4	85	85	85	85	<0.2			1.7	<0.2	1.7						
						5.8	0.1	198	25.5	7.7	7.7	27.3	27.3	62.4	62.4	4.4	2.9	3.1	3.7	5	6	87	87	87	87			<0.2	1.8	<0.2	1.8					
					5.8	0.1	196	25.4	7.7	7.7	27.2	27.2	61.8	61.8	4.3	3.8	3.8	4	4	87	87	87	87	<0.2	1.8			<0.2	1.8							
					10.6	0.1	234	25.2	7.7	7.7	28.7	28.7	62.4	61.9	4.3	3.8	3.8	4	4	90	90	90	90	<0.2	1.8			<0.2	1.8							
					10.6	0.1	246	25.2	7.7	7.7	28.7	28.7	61.9	61.9	4.3	3.8	3.8	4	4	90	90	90	90	<0.2	1.8			<0.2	1.8							
C3	Fine	Moderate	18:59	11.3	Surface	1.0	0.1	143	27.5	27.5	7.9	7.9	17.3	17.3	98.4	98.4	7.0	6.7	2.6	3	3	86	85	85	85	822112	817804	<0.2	2.0	<0.2	1.8					
						1.0	0.1	159	27.4	7.9	7.9	17.3	17.3	98.3	98.4	7.0	2.6	2.6	4	4	85	88	88	88	<0.2			1.8	<0.2	1.8						
						5.7	0.1	157	26.5	7.9	7.9	23.6	24.1	90.7	89.9	6.4	2.0	2.2	3	3	87	87	87	87	<0.2			1.9	<0.2	1.9						
					5.7	0.1	163	26.2	7.9	7.9	24.6	24.1	89.1	89.9	6.2	2.2	2.2	4	4	87	87	87	87	<0.2	1.9			<0.2	1.9							
					10.3	0.1	92	25.6	7.9	7.9	28.1	28.1	88.6	88.6	6.1	2.8	2.8	3	3	90	90	90	90	<0.2	1.5			<0.2	1.5							
					10.3	0.1	99	25.6	7.9	7.9	28.1	28.1	88.6	88.6	6.1	2.8	2.8	3	3	90	90	90	90	<0.2	1.8			<0.2	1.8							
IM1	Fine	Moderate	17:32	4.8	Surface	1.0	0.3	139	29.3	29.3	7.9	7.9	6.3	6.3	109.6	109.6	8.1	8.1	3.7	4	4	85	85	85	85	817931	807117	<0.2	1.0	<0.2	0.7					
						1.0	0.3	144	29.3	7.9	7.9	6.3	6.3	109.6	109.6	8.1	3.7	3.7	4	4	85	85	85	85	<0.2			1.0	<0.2	0.7						
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-	-	-	-	-	-
					3.8	0.1	221	28.9	7.9	7.9	8.6	8.6	99.3	99.5	7.3	3.5	3.5	4	4	88	88	88	88	<0.2	1.0			<0.2	0.8							
					3.8	0.1	226	28.9	7.9	7.9	8.6	8.6	99.6	99.5	7.3	3.5	3.5	4	4	88	88	88	88	<0.2	1.0			<0.2	0.8							
					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-	-	-	-	-	
IM2	Fine	Moderate	17:26	6.3	Surface	1.0	0.1	250	28.4	28.4	7.8	7.8	11.8	11.8	102.2	102.2	7.4	6.6	3.2	4	4	84	84	84	84	818157	806147	<0.2	1.3	<0.2	1.3					
						1.0	0.1	271	28.4	7.8	7.8	11.8	11.8	102.2	102.2	7.4	3.2	3.2	5	5	84	84	84	84	<0.2			1.3	<0.2	1.3						
						3.2	0.2	235	28.3	7.8	7.8	12.9	12.9	81.1	81.0	5.8	3.5	3.5	4	4	87	87	87	87	<0.2			1.5	<0.2	1.3						
					3.2	0.2	237	28.3	7.8	7.8	12.9	12.9	80.8	81.0	5.8	3.5	3.5	5	5	87	87	87	87	<0.2	1.3			<0.2	1.3							
					5.3	0.2	211	26.4	7.7	7.7	26.6	26.8	54.6	55.1	3.8	3.6	3.6	5	5	89	89	89	89	<0.2	1.4			<0.2	1.4							
					5.3	0.2	208	26.5	7.7	7.7	26.9	26.8	55.6	55.1	3.8	3.6	3.6	5	5	88	88	88	88	<0.2	1.4			<0.2	1.4							
IM3	Fine	Moderate	17:19	6.9	Surface	1.0	0.3	215	29.0	29.0	7.9	7.9	9.7	9.7	101.4	101.4	7.4	6.0	3.3	5	5	85	85	85	85	818760	805586	<0.2	1.0	<0.2	1.4					
						1.0	0.3	200	29.0	7.9	7.9	9.7	9.7	101.4	101.4	7.4	3.4	3.4	4	4	85	85	85	85	<0.2			1.4	<0.2	1.4						
						3.5	0.4	242	27.0	7.8	7.8	20.3	20.3	64.7	64.7	4.6	3.3	3.3	5	5	88	88	88	88	<0.2			1.4	<0.2	1.4						
					3.5	0.4	214	27.0	7.8	7.8	20.3	20.3	64.7	64.7	4.6	3.3	3.3	5	5	88	88	88	88	<0.2	1.4			<0.2	1.4							
					5.9	0.2	220	26.0	7.7	7.7	26.9	26.9	52.7	53.7	3.7	4.4	4.4	4	4	89	89	89	89	<0.2	1.2			<0.2	1.2							
					5.9	0.2	208	26.1	7.7	7.7	26.8	26.9	54.1	53.4	3.7	4.4	4.4	4	4	90	90	90	90	<0.2	1.4			<0.2	1.4							
IM4	Fine	Moderate	17:09	6.9	Surface	1.0	0.3	234	28.8	28.8	7.9	7.9	10.1	10.1	108.8	108.8	7.9	6.1	3.9	4	4	85	85	85	85	819729	804620	<0.2	1.4	<0.2	1.5					
						1.0	0.3	251	28.8	7.9	7.9	10.1	10.1	108.8	108.8	7.9	3.9	3.9	4	4	86	86	86	86	<0.2			1.5	<0.2	1.5						
						3.5	0.2	210	27.1	7.7	7.7	19.8	19.8	61.3	61.3	4.3	5.6	5.6	5	5	88	88	88	88	<0.2			1.4	<0.2	1.4						
					3.5	0.3	125	27.1	7.7	7.7	19.8	19.8	61.3	61.3	4.3	5.6	5.6	4	4	88	88	88	88	<0.2	1.4			<0.2	1.4							
					5.9	0.2	221	25.7	7.7	7.7	27.3	27.3	52.1	52.6	3.6	5.6	5.6	5	5	90	90	90	90	<0.2	1.2			<0.2	1.2							
					5.9	0.2	222	25.6	7.7	7.7	27.4	27.3	53.1	52.6	3.7	5.6	5.6	4	4	90	90	90	90	<0.2	1.4			<0.2	1.4							
IM5	Fine	Moderate	17:01	6.2	Surface	1.0	0.7	198	29.7	29.7	7.9	7.9	4.4	4.4	107.4	107.4	7.9	6.0	5.5	5	5	85	85	85	85	820715	804877	<0.2	1.5	<0.2	1.4					
						1.0	0.7	196	29.7	7.9	7.9	4.4	4.4	107.4	107.4	7.9	5.4	5.4	6	6	85	85	85	85	<0.2			1.4	<0.2	1.4						
						3.1	0.8	223	26.8	7.7	7.7	22.3	22.3	57.8	57.9	4.1	5.2	5.2	5	5	88	88	88	88	<0.2			1.4	<0.2	1.4						
					3.1	0.8	235	26.9	7.7	7.7	22.3	22.3	58.0	58.0	4.0	5.2	5.2	6	6	88	88	88	88	<0.2	1.2			<0.2	1.2							
					5.2	0.7	209	26.1	7.7	7.7	27.6	27.6	53.1	53.1	3.7	7.6	7.6	6	6	89	89	89	89	<0.2	1.5			<0.2	1.5							
					5.2	0.8	198	26.2	7.7	7.7	27.3	27.5	53.0	53.1	3.7	7.6	7.6	6	6	90	90	90	90	<0.2	1.6			<0.2	1.6							
IM6	Fine	Moderate	16:55	7.1	Surface	1.0	0.3	185	29.0	29.0	7.8	7.8	10.1	10.1	109.1	109.1	7.9	6.6	3.5	6	6	85	85	85	85	821069	805804	<0.2	1.4	<0.2	1.5					
						1.0	0.4	163	29.0	7.8	7.8	10.1	10.1	109.1	109.1	7.9	3.5	3.5	5	5	86	86	86	86												

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

Water Quality Monitoring

Water Quality Monitoring Results on 25 July 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	Moderate	12:22	8.5	Surface	1.0	0.4	46	29.0	29.0	7.8	7.8	6.1	6.1	87.0	87.0	6.5	4.1	4	86	88	88	88	88	88	815641	804256	<0.2	1.3	1.3						
						1.0	0.4	47	29.0	29.0	7.8	7.8	6.1	6.1	86.9	87.0	6.5	4.0	5	86	88	88	88	88	88	88	88	815641	804256		<0.2	1.3				
					Middle	4.3	0.3	32	28.0	28.1	7.8	7.8	17.0	16.5	74.2	74.3	5.2	5.2	5	88	88	88	88	88	88	88	88	815641	804256		<0.2	1.4				
						4.3	0.4	35	28.1	28.1	7.8	7.8	16.1	16.5	74.4	74.3	5.3	5.4	4	89	88	88	88	88	88	88	88	815641	804256		<0.2	1.2				
					Bottom	7.5	0.3	344	25.3	25.3	7.7	7.7	28.6	28.5	59.6	61.1	4.2	4.4	4.3	14.3	5	90	88	88	88	88	88	88	88		815641	804256	<0.2	1.3		
						7.5	0.3	353	25.3	25.3	7.7	7.7	28.3	28.5	62.5	61.1	4.4	4.4	4.3	14.6	5	90	88	88	88	88	88	88	88		815641	804256	<0.2	1.2		
C2	Fine	Moderate	13:32	11.5	Surface	1.0	0.4	158	27.9	27.9	7.7	7.7	11.4	11.4	68.7	68.6	5.1	4.3	5	84	85	85	85	85	87	825670	806950	<0.2	1.9	2.2						
						1.0	0.4	168	27.9	27.9	7.7	7.7	11.4	11.4	68.5	68.6	5.0	4.3	6	85	85	85	85	85	85	85	85	87	825670		806950	<0.2	2.0			
					Middle	5.8	0.0	152	25.9	25.9	7.7	7.7	26.3	26.3	57.8	57.8	4.0	3.1	7	87	88	88	88	88	88	88	88	87	825670		806950	<0.2	2.3			
						5.8	0.0	155	25.9	25.9	7.7	7.7	26.3	26.3	57.8	57.8	4.0	3.1	7	87	88	88	88	88	88	88	88	87	825670		806950	<0.2	2.3			
					Bottom	10.5	0.1	333	25.1	25.1	7.7	7.7	29.1	29.1	55.6	55.6	3.9	3.9	3.9	10.8	8	90	89	89	89	89	89	89	89		89	89	89	89	89	89
						10.5	0.1	347	25.1	25.1	7.7	7.7	29.1	29.1	55.6	55.6	3.9	3.9	3.9	10.8	8	89	89	89	89	89	89	89	89		89	89	89	89	89	89
C3	Fine	Moderate	11:34	10.5	Surface	1.0	0.1	303	27.7	27.7	8.0	8.0	17.9	17.9	96.4	96.1	6.9	2.6	4	86	87	87	87	87	88	822094	817782	<0.2	2.4	2.3						
						1.0	0.1	323	27.7	27.7	8.0	8.0	17.9	17.9	95.7	96.1	6.8	2.5	4	87	87	87	87	87	87	87	88	822094	817782		<0.2	2.1				
					Middle	5.3	0.2	250	25.7	25.7	7.8	7.8	27.4	27.4	59.2	59.0	4.1	4.3	6	87	87	87	87	87	87	87	88	822094	817782		<0.2	2.3				
						5.3	0.2	258	25.7	25.7	7.8	7.8	27.5	27.4	58.7	59.0	4.1	4.8	6	87	87	87	87	87	87	87	88	822094	817782		<0.2	2.3				
					Bottom	9.5	0.3	311	24.2	24.2	7.8	7.8	32.2	32.2	55.5	55.5	3.9	7.7	6	89	89	89	89	89	89	89	89	89	89		89	89	89	89	89	89
						9.5	0.3	319	24.2	24.2	7.8	7.8	32.2	32.2	55.5	55.5	3.9	7.5	7	90	89	89	89	89	89	89	89	89	89		89	89	89	89	89	89
IM1	Fine	Moderate	12:46	4.5	Surface	1.0	0.0	10	28.9	28.9	7.9	7.9	9.0	8.9	93.5	93.6	6.9	3.2	4	84	84	84	84	84	86	817951	807131	<0.2	1.4	1.4						
						1.0	0.0	10	28.9	28.9	7.9	7.9	8.7	8.7	93.7	93.6	6.9	3.3	4	84	84	84	84	84	84	86	817951	807131	<0.2		1.4					
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-
					Bottom	3.5	0.3	322	27.5	27.6	7.8	7.8	18.8	18.8	72.8	72.9	5.2	3.4	4	88	88	88	88	88	88	88	88	88	88		88	88	88	88	88	88
						3.5	0.3	336	27.6	27.6	7.8	7.8	18.7	18.8	73.0	72.9	5.2	3.5	5	89	88	88	88	88	88	88	88	88	88		88	88	88	88	88	88
IM2	Fine	Moderate	12:52	6.5	Surface	1.0	0.4	11	28.4	28.4	7.8	7.8	11.4	11.0	84.1	84.2	8.1	3.2	2	85	85	85	85	85	88	818145	806167	<0.2	1.4	1.4						
						1.0	0.4	11	28.4	28.4	7.8	7.8	10.6	11.0	84.2	84.2	8.1	3.2	3	85	85	85	85	85	85	88	818145	806167	<0.2		1.4					
					Middle	3.3	0.2	43	26.3	26.3	7.8	7.8	25.0	25.0	54.4	54.5	3.8	3.5	3	88	88	88	88	88	88	88	88	88	88		88	88	88	88	88	
						3.3	0.2	46	26.3	26.3	7.8	7.8	25.0	25.0	54.5	54.5	3.8	3.6	3	88	88	88	88	88	88	88	88	88	88		88	88	88	88	88	
					Bottom	5.5	0.2	328	25.7	25.7	7.7	7.7	27.5	27.5	50.2	50.3	3.5	5.2	3	90	89	89	89	89	89	89	89	89	89		89	89	89	89	89	89
						5.5	0.3	330	25.7	25.7	7.7	7.7	27.5	27.5	50.4	50.3	3.5	5.2	3	90	89	89	89	89	89	89	89	89	89		89	89	89	89	89	89
IM3	Fine	Moderate	12:58	6.8	Surface	1.0	0.2	277	28.5	28.5	7.9	7.9	13.0	12.7	87.1	87.0	6.3	3.0	3	85	85	85	85	85	88	818778	805602	<0.2	1.3	1.4						
						1.0	0.2	295	28.5	28.5	7.9	7.9	12.3	12.7	86.8	87.0	6.3	3.2	3	85	85	85	85	85	85	88	818778	805602	<0.2		1.4					
					Middle	3.4	0.3	342	26.2	26.3	7.8	7.8	25.0	25.0	53.2	53.5	3.7	3.5	3	88	88	88	88	88	88	88	88	88	88		88	88	88	88	88	88
						3.4	0.3	352	26.3	26.3	7.8	7.8	25.0	25.0	53.8	53.5	3.8	3.5	3	89	88	88	88	88	88	88	88	88	88		88	88	88	88	88	88
					Bottom	5.8	0.3	310	26.0	26.1	7.7	7.7	28.2	28.2	49.6	50.3	3.4	4.5	3	90	89	89	89	89	89	89	89	89	89		89	89	89	89	89	89
						5.8	0.3	318	26.2	26.2	7.7	7.7	28.2	28.2	50.9	50.3	3.5	4.6	4	90	89	89	89	89	89	89	89	89	89		89	89	89	89	89	89
IM4	Fine	Moderate	13:08	7.2	Surface	1.0	0.3	314	28.8	28.8	7.8	7.8	9.5	9.6	82.2	82.2	6.0	4.2	4	84	84	84	84	84	88	819720	804612	<0.2	1.2	1.2						
						1.0	0.3	333	28.8	28.8	7.8	7.8	9.6	9.6	82.1	82.2	6.0	4.2	4	85	85	85	85	85	85	88	819720	804612	<0.2		1.3					
					Middle	3.6	0.3	359	26.4	26.3	7.7	7.7	23.0	23.0	60.4	60.4	4.4	5.7	4	88	88	88	88	88	88	88	88	88	88		88	88	88	88	88	
						3.6	0.3	331	26.2	26.3	7.7	7.7	23.1	23.0	60.3	60.4	4.4	5.7	4	89	88	88	88	88	88	88	88	88	88		88	88	88	88	88	
					Bottom	6.2	0.3	39	25.4	25.4	7.7	7.7	28.6	28.5	52.0	52.1	3.6	14.4	4	90	89	89	89	89	89	89	89	89	89		89	89	89	89	89	
						6.2	0.3	41	25.4	25.4	7.7	7.7	28.5	28.5	52.1	52.1	3.6	14.1	4	90	89	89	89	89	89	89	89	89	89		89	89	89	89	89	
IM5	Fine	Moderate	13:19	6.8	Surface	1.0	0.4	237	28.7	28.7	7.9	7.9	8.5	8.5	90.2	90.1	6.6	3.0	4	84	85	85	85	85	88	820746	804879	<0.2	1.3	1.3						
						1.0	0.5	254	28.6	28.7	7.9	7.9	8.5	8.5	89.9	90.1	6.6	2.9	5	85	85	85	85	85	85	88	820746									

Expansion of Hong Kong International Airport into a Three-Runway System
 Water Quality Monitoring
 Water Quality Monitoring Results on 25 July 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	Fine	Moderate	12:57	7.6	Surface	1.0	0.2	233	28.2	28.2	7.8	7.8	11.0	11.0	78.7	78.6	5.8	4.2	3	86	88	822085	808811	<0.2	2.4	2.1								
						1.0	0.2	241	28.2	7.8	7.8	11.0	11.0	78.4	78.6	5.8	4.2	4	87	<0.2				2.3										
					Middle	3.8	0.2	238	26.8	26.8	7.7	7.7	19.7	19.7	65.5	65.4	4.7	5.0	4	88				<0.2	2.3									
						3.8	0.2	256	26.7	26.7	7.7	7.7	19.7	19.7	65.3	65.4	4.7	5.3	3	89				<0.2	2.0									
					Bottom	6.6	0.1	270	26.3	26.3	7.7	7.7	23.7	23.6	57.2	57.4	4.0	4.1	4	90				<0.2	1.8									
						6.6	0.1	272	26.3	26.3	7.7	7.7	23.6	23.6	57.6	57.6	4.1	4.1	3	90				<0.2	1.8									
IM10	Fine	Moderate	12:48	7.1	Surface	1.0	0.1	350	28.1	28.1	7.8	7.8	11.6	11.6	80.2	80.2	5.9	4.1	3	85	88	822375	809783	<0.2	2.0	2.1								
						1.0	0.1	358	28.1	28.1	7.8	7.8	11.7	11.6	80.1	80.2	5.9	4.1	3	86				<0.2	1.8									
					Middle	3.6	0.2	302	27.7	27.7	7.8	7.8	16.0	16.0	75.6	75.5	5.4	2.7	4	89				<0.2	2.2									
						3.6	0.2	317	27.7	27.7	7.8	7.8	16.0	16.0	75.4	75.5	5.4	2.9	3	87				<0.2	2.0									
					Bottom	6.1	0.2	297	26.0	26.1	7.7	7.7	25.0	24.9	53.2	53.4	3.8	5.8	3	90				<0.2	2.4									
						6.1	0.2	308	26.1	26.1	7.7	7.7	24.8	24.9	53.5	53.4	3.8	5.7	4	89				<0.2	2.4									
IM11	Fine	Moderate	12:34	7.4	Surface	1.0	0.1	25	28.0	28.0	7.8	7.8	13.0	13.0	83.4	83.4	6.1	3.4	3	86	88	822034	811468	<0.2	1.9	2.1								
						1.0	0.1	26	28.0	28.0	7.8	7.8	13.1	13.0	83.3	83.4	6.1	3.3	3	86				<0.2	1.9									
					Middle	3.7	0.3	303	27.1	27.1	7.8	7.8	19.9	19.9	66.1	66.1	4.7	2.6	3	88				<0.2	2.2									
						3.7	0.3	332	27.1	27.1	7.8	7.8	19.9	19.9	66.0	66.1	4.7	2.6	3	87				<0.2	2.1									
					Bottom	6.4	0.5	296	25.9	25.9	7.7	7.7	25.9	25.9	56.3	56.3	4.0	4.5	3	90				<0.2	2.3									
						6.4	0.5	308	25.9	25.9	7.7	7.7	26.0	25.9	56.3	56.3	4.0	4.6	2	90				<0.2	2.6									
IM12	Fine	Moderate	12:24	8.1	Surface	1.0	0.2	298	28.1	28.1	7.9	7.9	12.9	13.0	88.4	88.4	6.4	3.0	3	86	88	821462	812040	<0.2	2.1	2.2								
						1.0	0.2	309	28.0	28.0	7.9	7.9	13.0	13.0	88.3	88.4	6.4	3.0	3	87				<0.2	2.1									
					Middle	4.1	0.3	294	26.3	26.3	7.7	7.7	23.7	23.7	56.7	56.7	4.0	2.7	3	88				<0.2	2.1									
						4.1	0.3	313	26.3	26.3	7.7	7.7	23.7	23.7	56.6	56.7	4.0	2.7	3	89				<0.2	2.4									
					Bottom	7.1	0.1	14	25.2	25.2	7.7	7.7	28.4	28.4	52.2	52.2	3.6	4.1	3	90				<0.2	2.2									
						7.1	0.1	14	25.3	25.3	7.7	7.7	28.4	28.4	52.2	52.2	3.6	4.1	3	90				<0.2	2.0									
SR1A	Fine	Moderate	12:08	5.1	Surface	1.0	-	-	27.9	27.9	7.9	7.9	14.0	14.0	104.2	103.9	7.6	3.9	2	-	88	819970	812666	-	-	-								
						1.0	-	-	27.8	27.8	7.9	7.9	14.0	14.0	103.6	103.9	7.5	3.9	2	-				<0.2	2.1									
					Middle	2.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-		-	-	-	-	-	-	-	-
						2.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-		-	-	-	-	-	-	-	-
					Bottom	4.1	-	-	27.7	27.7	7.9	7.9	19.8	19.8	93.4	93.5	6.6	3.7	3	-				-	-		-	-	-	-	-	-	-	-
						4.1	-	-	27.7	27.7	7.9	7.9	19.8	19.8	93.6	93.5	6.6	3.6	3	-				-	-		-	-	-	-	-	-	-	-
SR2	Fine	Moderate	12:01	4.3	Surface	1.0	0.2	313	28.3	28.3	8.1	8.1	14.9	15.0	115.2	115.2	8.3	3.3	3	87	88	821461	814173	<0.2	2.1	2.1								
						1.0	0.2	337	28.2	28.2	8.1	8.1	15.2	15.2	115.2	115.2	8.3	3.3	2	86				<0.2	2.1									
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-		-	-	-	-	-	-	-	-
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-		-	-	-	-	-	-	-	-
					Bottom	3.3	0.5	311	27.7	27.7	8.0	8.0	18.5	18.5	114.3	114.2	8.1	3.7	3	90				<0.2	2.1									
						3.3	0.5	315	27.6	27.6	8.0	8.0	18.6	18.5	114.1	114.2	8.1	3.8	3	90				<0.2	2.2									
SR3	Fine	Moderate	13:10	8.5	Surface	1.0	0.3	244	27.9	27.9	7.8	7.8	14.0	14.0	74.8	74.9	5.4	3.9	5	-	88	822123	807552	-	-	-								
						1.0	0.3	247	27.9	27.9	7.8	7.8	14.0	14.0	74.8	74.9	5.4	3.7	5	-				<0.2	2.1									
					Middle	4.3	0.3	220	26.8	26.8	7.7	7.7	21.3	21.3	59.7	59.7	4.2	2.4	4	-				-	-		-	-	-	-	-	-		
						4.3	0.3	221	26.7	26.7	7.7	7.7	21.3	21.3	59.6	59.7	4.2	2.5	5	-				-	-		-	-	-	-	-	-		
					Bottom	7.5	0.1	258	25.9	25.9	7.7	7.7	25.5	25.5	54.7	54.9	3.9	3.8	4	-				-	-		-	-	-	-	-	-	-	
						7.5	0.1	278	25.9	25.9	7.7	7.7	25.5	25.5	55.0	54.9	3.9	3.7	4	-				-	-		-	-	-	-	-	-	-	
SR4A	Fine	Calm	11:55	8.1	Surface	1.0	0.1	243	28.6	28.6	7.9	7.9	10.2	10.2	84.8	84.7	6.2	3.3	5	-	88	817191	807796	-	-	-								
						1.0	0.1	254	28.5	28.5	7.9	7.9	10.2	10.2	84.6	84.7	6.2	3.3	6	-				<0.2	2.1									
					Middle	4.1	0.0	188	27.8	27.8	7.8	7.8	18.4	18.4	74.2	74.1	5.3	4.4	5	-				-	-		-	-	-	-	-			
						4.1	0.0	195	27.8	27.8	7.8	7.8	18.4	18.4	74.0	74.1	5.3	4.5	5	-				-	-		-	-	-	-	-			
					Bottom	7.1	0.1	221	25.4	25.4	7.7	7.7	29.0	29.0	51.6	51.6	3.6	5.3	6	-				-	-		-	-	-	-	-	-		
						7.1	0.1	232	25.4	25.4	7.7	7.7	29.0	29.0	51.2	51.4	4.0	5.5	5	-				-	-		-	-	-	-	-	-		
SR5A	Fine	Calm	11:37	4.7	Surface	1.0	0.2	270	28.6	28.6	8.0	8.0	17.0	17.0	93.1	93.0	6.6	5.8	5	-	88	816602	810684	-	-	-								
						1.0	0.2	288	28.6	28.6	8.0	8.0	17.1	17.0	92.9	93.0	6.6	5.6	5	-				<0.2	2.1									
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-		-	-	-	-	-	-	-	
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-		-	-	-	-	-	-	-	
					Bottom	3.7	0.0	276	26.5	26.6	7.8	7.8	24.6	24.6	57.6	58.1	4.0	7.2	5	-				-	-		-	-	-	-	-	-		
						3.7	0.0	294	26.6	26.6	7.8	7.8	24.5	24.6	58.5	58.1	4.1	6.8	4	-				-	-		-	-	-	-	-	-		
SR6	Fine	Calm	11:11	4.2	Surface	1.0	0.1	152	28.3	28.3	8.0	8.0	17.1	17.1	100.0	100.0	7.1	1.9	4	-	88	817914	814651	-	-	-								
						1.0	0.1	160	28.3	28.3	8.0	8.0	17.2	17.1	100.0	100.0	7.1	1.9	4	-				<0.2	2.1									
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-		-	-	-	-	-	-		
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-		-	-	-	-	-	-		
					Bottom	3.2	0.1	144	28.2	28.2	8.0	8.0	17.6	17.6	99.7	99.8	7.1	2.0	5	-				-	-		-	-	-	-	-			
						3.2	0.1	151	28.2	28.2	8.0	8.0	17.6	17.6	99.8	99.8	7.1	2.0	5	-				-	-		-	-	-	-	-			
SR7	Fine	Moderate	10:59	16.1	Surface	1.0	0.2	211	27.5	27.5	8.2	8.2	20.2	20.3	124.8	124.7	8.8	2.3	4	-	88													

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

Water Quality Monitoring Results on 27 July 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	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA	Value	DA
C1	Sunny	Moderate	08:59	6.9	Surface	1.0	0.2	222	28.9	28.9	8.3	8.3	6.9	6.9	117.7	117.7	8.7	8.3	5.5	3	86	88	815642	804246	<0.2	0.8	<0.2	0.8							
						1.0	0.2	233	28.9	8.3	8.3	6.9	6.9	117.6	8.7	5.5	4	85	88	<0.2	0.8														
						3.5	0.3	198	28.7	8.2	8.2	9.3	9.3	106.0	7.8	4.4	3	89	88	<0.2	0.8														
					Middle	3.5	0.3	202	28.7	8.2	8.2	9.3	9.3	105.7	7.8	4.3	4	90	87	<0.2	0.9														
						5.9	0.2	237	26.5	7.8	7.8	19.7	19.3	63.5	4.6	6.6	4	90	88	<0.2	0.8														
						5.9	0.3	252	26.4	7.8	7.8	18.9	19.3	61.4	4.5	6.7	4	90	88	<0.2	0.9														
					C2	Cloudy	Moderate	10:53	11.2	Surface	1.0	0.9	165	29.2	29.2	8.0	8.0	8.8	8.8	95.6	95.6	7.0	5.3	4.0	4	86			88	825680	806948	<0.2	1.1	<0.2	1.2
											1.0	1.0	174	29.2	8.0	8.0	8.7	8.8	95.6	7.0	4.0	4	84	88	<0.2	1.2									
											5.6	0.3	146	26.6	7.7	7.7	24.9	25.0	51.8	3.6	3.5	4	87	88	<0.2	1.2									
Middle	5.6	0.3	159	26.6						7.7	7.7	25.0	25.1	51.7	3.6	3.6	4	88	88	<0.2	1.1														
	10.2	0.2	161	25.5						7.7	7.7	29.2	29.1	41.3	2.9	4.3	5	90	88	<0.2	1.2														
	10.2	0.2	167	25.6						7.7	7.7	29.1	29.1	41.5	2.9	4.3	6	90	88	<0.2	1.1														
C3	Cloudy	Moderate	08:46	11.3						Surface	1.0	0.2	214	29.0	29.0	8.2	8.2	14.0	14.0	120.4	120.4	8.6	7.3	2.4	4	85	88	822124	817825	<0.2	1.1	<0.2	1.1		
											1.0	0.2	219	29.0	8.2	8.2	14.0	14.0	120.4	8.6	2.4	5	86	88	<0.2	1.2									
											5.7	0.1	71	27.7	8.0	8.0	20.8	20.8	85.7	6.0	1.8	4	88	88	<0.2	1.1									
					Middle	5.7	0.1	73	27.7	8.0	8.0	20.8	20.8	85.7	6.0	1.8	4	87	88	<0.2	1.1														
						10.3	0.3	118	24.8	7.8	7.8	31.1	31.1	49.7	3.5	4.4	4	90	88	<0.2	1.0														
						10.3	0.3	120	24.8	7.8	7.8	31.1	31.1	49.9	3.5	4.4	4	90	88	<0.2	1.0														
					IM1	Sunny	Moderate	09:29	5.6	Surface	1.0	0.1	99	29.0	29.0	8.3	8.3	8.7	8.7	126.1	126.1	9.3	9.3	4.4	4	85	88	817970	807145	<0.2	0.9			<0.2	0.9
											1.0	0.1	108	29.0	8.3	8.3	8.7	8.7	126.0	9.2	4.4	4	86	88	<0.2	0.9									
											-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Middle	-	-	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
	4.6	0.1	170	28.5						8.3	8.2	14.0	14.0	105.8	7.7	4.9	5	90	88	<0.2	0.9														
	4.6	0.1	175	28.5						8.2	8.2	13.9	14.0	106.1	7.7	4.9	4	89	88	<0.2	0.8														
IM2	Sunny	Moderate	09:36	6.6						Surface	1.0	0.5	189	28.7	28.7	8.3	8.3	9.5	9.5	114.7	114.6	8.4	6.1	4.9	5	84	88	818147	806177	<0.2	0.9	<0.2	0.9		
											1.0	0.5	206	28.7	8.3	8.3	9.5	9.5	114.4	8.4	4.9	5	86	88	<0.2	0.9									
											3.3	0.2	209	26.2	7.8	7.8	24.2	24.2	53.7	3.8	4.6	5	89	87	<0.2	0.9									
					Middle	3.3	0.2	211	26.2	7.8	7.8	24.3	24.2	53.6	3.8	4.6	5	87	88	<0.2	0.9														
						5.6	0.0	151	24.4	7.7	7.7	31.4	31.4	35.1	2.5	6.6	4	89	88	<0.2	0.8														
						5.6	0.0	154	24.4	7.7	7.7	31.4	31.4	35.3	2.5	6.7	4	88	88	<0.2	0.9														
					IM3	Sunny	Moderate	09:48	6.8	Surface	1.0	0.3	209	29.0	29.0	8.3	8.3	7.6	7.6	120.1	120.0	8.9	6.0	5.0	4	85	88	818785	805612	<0.2	0.9			<0.2	0.8
											1.0	0.3	223	29.0	8.3	8.3	7.6	7.6	119.8	8.8	5.0	5	85	88	<0.2	0.8									
											3.4	0.3	233	25.5	7.8	7.8	27.0	27.0	43.9	3.1	4.5	5	87	88	<0.2	0.9									
Middle	3.4	0.3	239	25.5						7.8	7.8	27.0	27.0	43.9	3.1	4.5	4	88	88	<0.2	0.9														
	5.8	0.1	221	24.8						7.7	7.7	29.9	29.9	36.3	2.5	5.4	5	89	88	<0.2	0.8														
	5.8	0.1	241	24.8						7.7	7.7	29.8	29.9	36.8	2.6	5.4	6	90	88	<0.2	0.8														
IM4	Sunny	Moderate	10:04	7.2						Surface	1.0	0.9	170	29.3	29.3	8.4	8.4	6.6	6.6	131.1	131.1	9.7	6.4	5.2	4	86	88	819730	804600	<0.2	0.9	<0.2	0.8		
											1.0	0.9	170	29.3	8.4	8.4	6.6	6.6	131.0	9.7	5.2	5	85	88	<0.2	0.9									
											3.6	0.3	190	25.5	7.7	7.7	27.5	27.5	42.3	3.0	7.4	5	89	88	<0.2	0.9									
					Middle	3.6	0.3	207	25.5	7.7	7.7	27.5	27.5	42.5	3.0	7.4	6	88	88	<0.2	0.8														
						6.2	0.1	298	25.2	7.7	7.7	28.2	28.2	40.2	2.8	8.1	6	90	88	<0.2	0.8														
						6.2	0.1	306	25.2	7.7	7.7	28.2	28.2	40.4	2.8	8.1	7	90	88	<0.2	0.7														
					IM5	Sunny	Moderate	10:16	7.3	Surface	1.0	0.7	168	28.7	28.7	8.3	8.3	8.7	8.8	115.2	114.9	8.5	7.9	4.7	4	85	88	820724	804861	<0.2	1.0			<0.2	1.0
											1.0	0.7	179	28.6	8.3	8.3	8.8	8.8	114.6	8.5	4.8	3	86	88	<0.2	0.9									
											3.7	0.6	199	28.3	8.1	8.1	14.7	14.7	99.5	7.2	4.4	4	89	88	<0.2	1.0									
Middle	3.7	0.6	212	28.3						8.1	8.1	14.7	14.7	99.5	7.2	4.5	4	87	88	<0.2	1.0														
	6.3	0.4	214	26.1						7.7	7.7	25.2	25.2	52.4	3.7	14.5	4	90	88	<0.2	0.8														
	6.3	0.4	234	26.1						7.7	7.7	25.2	25.2	52.6	3.7	14.6	5	90	88	<0.2	1.0														
IM6	Sunny	Moderate	10:24	7.4						Surface	1.0	0.2	255	29.4	29.4	8.4	8.4	8.1	8.1	135.1	135.0	9.9	7.0	4.7	5	85	88	821067	805821	<0.2	0.9	<0.2	1.0		
											1.0	0.2	262	29.4	8.4	8.4	8.1	8.1	134.9	9.9	4.8	4	86	88	<0.2	0.9									
											3.7	0.3	248	26.5	7.8	7.8	22.9	23.0	58.6	58.4	4.1	9.9	4	89	88	<0.2	1.0								
					Middle	3.7	0.3	258	26.5	7.8	7.8	23.0	23.0	58.2	58.4	4.1	9.9	4	90	88	<0.2	1.0													
						6.4	0.1	251	25.3	7.7	7.7	28.0	28.1	37.1	2.6	15.1	4	89	88	<0.2	0.9														
						6.4	0.2	270	25.3	7.7	7.7	28.1	28.1	37.4	2.6	15.1	3	90	88	<0.2	1.0														
					IM7	Sunny	Moderate	10:31	7.0	Surface	1.0	0.5	290	28.9	28.9	8.3	8.3	9.8	9.8	121.2	121.1	8.9	8.2	4.5	3	86	88	821347	806828	<0.2	0.9			<0.2	1.0
											1.0	0.5	291	28.9	8.3	8.3	9.8	9.8	120.9	8.8	4.5	<2	3	84	88	<0.2	0.9								
											3.5	0.4	284	28.5	8.1	8.1	12.7	12.7	104.7	7.6	3.8	3	89	88	<0.2	1.0									
Middle	3.5	0.5	301	28.5						8.1	8.1	12.7	12.7	104.2	7.5	3.8	3	87	88	<0.2	1.0														
	6.0	0.2	226	26.3						7.7	7.7	24.4	24.4	53.9	3.8	3.1	3	90	88	<0.2	1.1														
	6.0	0.3	235	26.3						7.7	7.7	24.5	24.4	53.8	3.8	3.2	3	90	88	<0.2	1.0														
IM8	Cloudy	Moderate	10:24	7.2						Surface	1.0	0.1	185	29.3	29.3	8.1	8.1	10.7	10.7	111.8	111.8	8.1	7.9	3.0	4	85	88	821852	808160	<0.2	1.3	<0.2	1.3		
											1.0	0.1	188	29.3	8.1	8.1	10.7	10.7	111.8	8.1	3.1	3	86	88	<0.2	1.3									
											3.6	0.2	222	29.2	8.1	8.1	11.6	11.6	106.4	7.7	3.1	4	88	88	<0.2	1.4									
					Middle	3.6	0.2	231	29.2	8.1	8.1	11.6	11.6	106.2	7.6	3.2	3	89																	

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

Water Quality Monitoring Results on 27 July 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	Moderate	10:17	6.8	Surface	1.0	0.3	130	29.3	29.3	8.1	8.1	11.7	11.6	111.0	111.0	8.0	7.9	3.0	2.9	5	4	86	88	88	822079	808825	<0.2	<0.2	1.2											
						1.0	0.3	134	29.3	8.1	8.1	11.6	11.6	8.0	7.9	3.0	2.9	4	4	85	88																				
						3.4	0.2	110	29.2	8.1	8.1	11.8	11.8	108.4	108.4	7.8	7.8	2.8	2.8	3	4	88	88																		
					Middle	3.4	0.2	111	29.2	29.2	8.1	8.1	11.8	11.8	108.3	108.3	7.8	7.8	2.8	2.8	4	4	87	88																	
						5.8	0.2	65	28.0	28.0	7.9	7.9	19.1	19.1	86.4	86.8	6.1	6.1	2.4	2.4	4	4	89	89																	
						5.8	0.3	70	28.0	28.0	7.9	7.9	19.2	19.1	87.1	87.1	6.1	6.1	3.2	3.2	4	4	90	90																	
					IM10	Cloudy	Moderate	10:08	7.0	Surface	1.0	0.6	108	29.2	29.2	8.1	8.1	11.8	11.8	109.5	109.5	7.9	7.8	3.0							4.1	4	5	85	88	88	822385	809770	<0.2	<0.2	1.1
											1.0	0.6	108	29.2	29.2	8.1	8.1	11.8	11.8	109.5	109.5	7.9	7.8	3.1							4.1	4	5	87	87						
											3.5	0.5	92	29.2	29.2	8.1	8.1	12.0	12.0	108.0	107.9	7.7	7.7	3.1							4.1	5	5	87	87						
Middle	3.5	0.5	97	29.2						29.2	8.1	8.1	12.1	12.1	107.7	107.7	7.7	7.7	3.1	4.1	4	5	87	87																	
	6.0	0.2	148	27.3						27.3	7.8	7.8	22.1	22.1	67.2	67.3	4.7	4.7	6.2	7	7	90	90																		
	6.0	0.2	156	27.3						27.3	7.8	7.8	22.1	22.1	67.3	67.3	4.7	4.7	6.3	6	6	89	89																		
IM11	Cloudy	Moderate	09:54	7.4						Surface	1.0	0.6	111	29.4	29.4	8.1	8.1	10.3	10.3	112.0	112.0	8.1	7.5	3.3	3.1	5	5	86	88	88	822054	811443	<0.2	<0.2	1.1						
											1.0	0.7	113	29.4	29.4	8.1	8.1	10.3	10.3	111.9	111.9	8.1	7.5	3.3	3.1	4	5	86	88												
											3.7	0.4	94	28.2	28.2	8.0	8.0	14.5	14.6	95.1	94.4	6.8	6.8	2.6	3.1	4	5	88	88												
					Middle	3.7	0.5	98	28.1	28.1	8.0	8.0	14.7	14.6	93.7	94.4	6.8	6.8	2.6	3.1	5	5	87	87																	
						6.4	0.3	101	26.3	26.3	7.7	7.7	26.1	26.1	49.9	50.0	3.5	3.5	3.5	3.5	5	5	90	90																	
						6.4	0.3	110	26.3	26.3	7.7	7.7	26.0	26.1	50.1	50.1	3.5	3.5	3.5	3.5	6	6	90	90																	
					IM12	Cloudy	Moderate	09:42	8.4	Surface	1.0	0.5	100	29.5	29.5	8.2	8.2	10.6	10.6	121.7	121.2	8.8	7.2	3.2	4.0	4	4	85	88							88	821457	812022	<0.2	<0.2	1.1
											1.0	0.5	103	29.4	29.4	8.2	8.2	10.6	10.6	120.7	120.7	8.7	7.2	3.2	4.0	4	4	86	89												
											4.2	0.4	95	28.2	28.3	7.9	7.9	18.1	18.1	79.8	79.9	5.6	5.6	3.6	3.6	5	4	89	87												
Middle	4.2	0.4	101	28.3						28.3	7.9	7.9	18.1	18.1	80.0	79.9	5.6	5.6	3.6	3.6	4	4	87	87																	
	7.4	0.2	84	25.7						25.7	7.7	7.7	28.3	28.3	53.6	53.6	3.7	3.7	5.3	4	4	90	90																		
	7.4	0.2	86	25.7						25.7	7.7	7.7	28.3	28.3	53.6	53.6	3.7	3.7	5.3	5	5	90	90																		
SR1A	Cloudy	Moderate	09:25	5.2						Surface	1.0	-	-	29.6	29.6	8.4	8.4	12.4	12.4	148.7	149.3	10.6	10.7	1.9	2.2	5	5	-	-	-	819976	812658	-	-	-						
											1.0	-	-	29.6	29.6	8.4	8.4	12.4	12.4	148.8	149.3	10.7	10.7	2.1	2.2	6	5	-	-												
											2.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-												
					Middle	2.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							-	-				
						4.2	-	-	28.7	28.7	8.0	8.0	17.3	17.3	107.3	107.4	7.6	7.6	2.3	2.3	5	5	-	-																	
						4.2	-	-	28.7	28.7	8.0	8.0	17.3	17.3	107.4	107.4	7.6	7.6	2.4	2.4	5	5	-	-																	
					SR2	Cloudy	Moderate	09:11	4.2	Surface	1.0	0.3	111	29.2	29.2	8.1	8.1	11.0	11.0	113.7	113.6	8.2	8.2	3.6	3.4	5	5	86	87							88	821472	814154	<0.2	<0.2	1.1
											1.0	0.4	121	29.2	29.2	8.1	8.1	11.0	11.0	113.5	113.6	8.2	8.2	3.6	3.6	6	5	87	88												
											-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-												
Middle	-	-	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-										
	3.2	0.3	117	29.0						29.0	8.1	8.1	14.3	14.3	114.8	115.0	8.2	8.2	3.3	3.3	5	5	88	88																	
	3.2	0.3	128	29.0						29.0	8.1	8.1	14.3	14.3	115.1	115.0	8.2	8.2	3.2	3.2	5	5	90	90																	
SR3	Cloudy	Moderate	10:30	8.3						Surface	1.0	0.3	197	29.0	29.0	8.0	8.0	12.9	12.9	99.1	99.2	7.1	6.7	2.8	2.6	3	4	-	-	-	822151	807570	-	-	-						
											1.0	0.3	205	29.0	29.0	8.0	8.0	12.9	12.9	99.2	99.2	7.1	6.7	2.8	2.6	3	4	-	-												
											4.2	0.2	199	28.2	28.2	7.9	7.9	17.1	17.1	88.8	88.6	6.3	6.3	1.7	1.7	4	4	-	-												
					Middle	4.2	0.2	209	28.2	28.2	7.9	7.9	17.1	17.1	88.3	88.6	6.3	6.3	1.7	1.7	4	4	-	-																	
						7.3	0.1	252	26.2	26.3	7.7	7.7	26.2	26.2	48.9	49.1	3.4	3.4	3.5	3.4	4	4	-	-																	
						7.3	0.1	276	26.3	26.3	7.7	7.7	26.1	26.2	49.3	49.1	3.4	3.4	3.2	3.2	4	4	-	-																	
					SR4A	Sunny	Moderate	08:29	9.8	Surface	1.0	0.2	244	29.4	29.4	8.5	8.5	8.3	8.3	134.2	133.9	9.8	7.6	4.4	6.0	5	5	-	-							-	817165	807794	-	-	-
											1.0	0.2	253	29.4	29.4	8.5	8.5	8.3	8.3	133.6	133.9	9.8	7.6	4.3	6.0	5	5	-	-												
											4.9	0.1	73	27.5	27.5	8.0	8.0	19.9	19.9	75.9	75.4	5.4	5.3	6.1	6.1	4	4	-	-												
Middle	4.9	0.1	73	27.5						27.5	8.0	8.0	19.9	19.9	74.8	75.4	5.3	5.3	6.1	6.1	4	4	-	-																	
	8.8	0.0	77	24.4						24.4	7.7	7.7	31.6	31.6	33.3	33.4	2.3	2.3	7.6	7.6	6	6	-	-																	
	8.8	0.0	84	24.4						24.4	7.7	7.7	31.6	31.6	33.4	33.4	2.3	2.3	7.6	7.6	5	5	-	-																	
SR5A	Sunny	Moderate	08:12	5.2						Surface	1.0	0.0	306	29.4	29.4	8.5	8.5	12.2	12.1	152.4	152.5	10.9	10.9	4.5	5.5	4	5	-	-	-	816580	810686	-	-	-						
											1.0	0.0	324	29.4	29.4	8.5	8.5	12.1	12.1	152.5	152.5	10.9	10.9	4.5	5.5	5	5	-	-												
											-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-												
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							-					
						4.2	0.0	66	28.8	28.8	8.3	8.3	17.1	17.1	134.0	134.0	9.4	9.4	6.5	6.4	5	5	-	-																	
						4.2	0.0	68	28.8	28.8	8.3	8.3	17.1	17.1	133.9	134.0	9.4	9.4	6.4	6.4	6	6	-	-																	
					SR6	Sunny	Moderate	07:46	4.8	Surface	1.0	0.1	210	29.1	29.1	8.4	8.4	13.4	13.4	166.3	165.9	11.9	11.9	4.1	4.7	4	5	-	-							-	817901	814644	-	-	-
											1.0	0.1	220	29.0	29.0	8.4	8.4	13.4	13.4	165.5	165.9	11.8	11.8	4.1	4.7	5	5	-	-												
											-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-												
Middle	-	-	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-												
	3.8	0.1	177	28.5						28.5	8.0	8.0	16.7	16.7	116.2	116.2	8.2	8.4	5.5	5.4	4	4	-	-																	
	3.8	0.1	185	28.5						28.5																															

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

Water Quality Monitoring

Water Quality Monitoring Results on 27 July 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	DA	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA	Value	DA
C1	Fine	Moderate	15:15	7.2	Surface	1.0	0.1	29	29.3	29.3	8.4	8.4	8.0	8.0	123.8	123.7	9.1	8.3	5.0	5.0	5	5	85	85	815621	804258	<0.2	<0.2	1.1	1.0			
						1.0	0.1	26	29.3	29.3	8.4	8.0	8.0	123.5	123.5	9.0	8.3	5.0	5.0	5	5	86	86	<0.2	<0.2	1.0	1.0						
					Middle	3.6	0.1	25	28.6	28.6	8.2	8.2	9.4	9.4	103.2	102.7	7.6	7.5	7.5	7.6	3	4	90	89	<0.2	<0.2	1.0	1.0					
						3.6	0.1	23	28.6	28.6	8.2	8.2	9.4	9.4	102.1	102.1	7.5	7.5	7.5	7.5	3	4	89	91	<0.2	<0.2	1.0	0.9					
					Bottom	6.2	0.1	12	25.0	25.0	7.7	7.7	26.6	26.7	43.2	43.1	3.1	3.1	10.3	10.3	4	4	91	90	<0.2	<0.2	1.0	0.9					
						6.2	0.1	12	25.0	25.0	7.7	7.7	26.9	26.9	42.9	42.9	3.1	3.1	10.3	10.3	4	4	90	90	<0.2	<0.2	1.0	0.9					
C2	Cloudy	Moderate	14:05	11.6	Surface	1.0	0.9	56	29.1	29.1	8.0	8.0	8.7	8.7	92.0	91.9	6.7	5.0	4.0	4.0	4	3	85	85	825698	806924	<0.2	<0.2	1.1	1.2			
						1.0	0.9	65	29.1	29.1	8.0	8.8	8.8	91.7	91.7	6.7	5.0	4.0	4.0	3	3	85	85	<0.2	<0.2	1.2	1.2						
					Middle	5.8	0.3	47	26.0	26.0	7.7	7.7	25.0	25.0	46.6	46.3	3.3	3.3	4.4	4.4	4	4	88	88	<0.2	<0.2	1.2	1.2					
						5.8	0.3	45	25.9	25.9	7.7	7.7	25.1	25.1	46.0	46.0	3.3	3.3	4.5	4.5	4	4	90	89	<0.2	<0.2	1.2	1.3					
					Bottom	10.6	0.2	75	25.6	25.6	7.7	7.7	29.0	29.0	37.3	37.4	2.6	2.6	9.6	9.6	6	6	89	90	<0.2	<0.2	1.3	1.3					
						10.6	0.2	85	25.6	25.6	7.7	7.7	29.0	29.0	37.4	37.4	2.6	2.6	9.6	9.6	6	6	90	90	<0.2	<0.2	1.3	1.3					
C3	Cloudy	Moderate	16:13	12.0	Surface	1.0	0.2	345	30.2	30.2	8.5	8.5	12.8	12.8	181.9	181.8	12.8	9.2	2.8	2.9	6	5	86	86	822102	817826	<0.2	<0.2	1.1	1.1			
						1.0	0.2	317	30.1	30.1	8.5	8.5	12.8	12.8	181.6	181.6	12.8	9.2	2.9	2.9	5	5	86	89	<0.2	<0.2	1.2	1.0					
					Middle	6.0	0.2	279	27.3	27.3	7.9	7.9	22.1	22.1	77.7	77.8	5.5	5.5	1.7	1.7	5	5	89	87	<0.2	<0.2	1.0	1.0					
						6.0	0.3	289	27.3	27.3	7.9	7.9	22.1	22.1	77.8	77.8	5.5	5.5	1.7	1.7	5	4	90	89	<0.2	<0.2	1.2	1.0					
					Bottom	11.0	0.1	229	26.8	26.8	7.8	7.8	24.1	24.2	66.9	66.9	4.7	4.7	3.5	3.6	4	4	90	90	<0.2	<0.2	1.0	1.0					
						11.0	0.1	235	26.7	26.7	7.8	7.8	24.2	24.2	66.8	66.8	4.7	4.7	3.6	3.6	4	4	90	90	<0.2	<0.2	1.0	1.0					
IM1	Fine	Moderate	14:47	4.8	Surface	1.0	0.4	32	29.5	29.5	8.5	8.5	7.7	7.7	138.4	135.7	10.1	9.9	5.1	5.1	5	4	86	85	817972	807146	<0.2	<0.2	1.0	1.0			
						1.0	0.4	34	29.5	29.5	8.5	7.7	7.7	133.0	133.0	9.7	9.9	5.1	5.1	5	5	85	85	<0.2	<0.2	1.0	1.0						
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					Bottom	3.8	0.3	328	25.3	25.3	7.7	7.7	26.7	26.7	41.4	41.3	2.9	2.9	6.6	6.6	3	3	88	90	<0.2	<0.2	0.9	1.0					
						3.8	0.3	355	25.3	25.3	7.7	7.7	26.6	26.7	41.2	41.2	2.9	2.9	6.6	6.6	4	4	90	90	<0.2	<0.2	1.0	1.0					
IM2	Fine	Moderate	14:40	6.9	Surface	1.0	0.2	44	29.1	29.1	8.4	8.3	9.0	9.0	124.5	124.1	9.1	7.1	4.9	4.9	4	5	85	84	818148	806186	<0.2	<0.2	1.1	1.1			
						1.0	0.2	46	29.1	29.1	8.3	9.0	9.0	123.7	123.7	9.0	7.1	4.9	4.9	5	5	87	87	<0.2	<0.2	1.1	1.1						
					Middle	3.5	0.1	61	26.9	26.9	7.9	7.9	18.7	18.7	70.1	70.1	5.1	5.1	5.6	5.6	5	5	89	89	<0.2	<0.2	1.0	1.0					
						3.5	0.1	58	26.9	26.9	7.9	7.9	18.7	18.7	70.1	70.1	5.1	5.1	5.6	5.6	5	7	89	90	<0.2	<0.2	1.0	1.0					
					Bottom	5.9	0.1	31	24.3	24.3	7.7	7.7	31.7	31.7	39.3	39.5	2.7	2.8	6.7	6.8	7	7	90	90	<0.2	<0.2	1.0	1.0					
						5.9	0.1	34	24.3	24.3	7.7	7.7	31.7	31.7	39.6	39.5	2.8	2.8	6.8	6.8	7	7	90	90	<0.2	<0.2	1.0	1.0					
IM3	Fine	Moderate	14:35	7.3	Surface	1.0	0.3	37	29.2	29.2	8.4	8.4	9.6	9.7	135.5	135.5	9.8	9.6	5.4	5.4	5	5	84	85	818766	805615	<0.2	<0.2	1.2	1.1			
						1.0	0.3	35	29.2	29.2	8.4	9.7	9.7	135.4	135.4	9.8	9.6	5.4	5.4	5	5	85	88	<0.2	<0.2	1.2	1.2						
					Middle	3.7	0.4	65	29.0	29.0	8.3	8.3	10.2	10.2	128.3	128.3	9.3	9.3	5.5	6.1	6	6	88	88	<0.2	<0.2	1.2	1.2					
						3.7	0.4	71	29.0	29.0	8.3	8.3	10.2	10.2	128.2	128.2	9.3	9.3	5.4	6.1	6	7	88	90	<0.2	<0.2	1.2	0.9					
					Bottom	6.3	0.3	70	24.4	24.4	7.7	7.7	31.5	31.5	34.5	34.8	2.4	2.5	7.6	7.6	6	6	90	90	<0.2	<0.2	1.0	1.0					
						6.3	0.3	72	24.4	24.4	7.7	7.7	31.5	31.5	35.1	34.8	2.5	2.5	7.6	7.6	6	6	90	90	<0.2	<0.2	1.0	1.0					
IM4	Fine	Moderate	14:26	8.1	Surface	1.0	0.6	48	29.4	29.4	8.4	8.4	9.8	9.8	138.2	138.2	10.1	6.4	4.9	4.9	5	4	86	84	819709	804618	<0.2	<0.2	1.1	1.1			
						1.0	0.7	52	29.4	29.4	8.4	9.8	9.8	138.2	138.2	10.1	6.4	4.9	4.9	4	4	84	88	<0.2	<0.2	1.2	1.2						
					Middle	4.1	0.1	68	25.2	25.2	7.7	7.7	28.3	28.4	38.8	38.9	2.7	2.7	7.9	7.9	4	4	88	85	<0.2	<0.2	1.2	1.2					
						4.1	0.1	65	25.1	25.1	7.7	7.7	28.6	28.4	38.9	38.9	2.7	2.7	7.9	7.9	4	6	85	90	<0.2	<0.2	1.2	0.9					
					Bottom	7.1	0.1	35	24.6	24.6	7.7	7.7	30.8	30.8	34.8	34.9	2.4	2.5	8.6	8.6	5	5	90	90	<0.2	<0.2	1.0	1.0					
						7.1	0.2	34	24.6	24.6	7.7	7.7	30.9	30.8	35.0	34.9	2.5	2.5	8.6	8.6	5	5	90	90	<0.2	<0.2	1.0	1.0					
IM5	Fine	Moderate	14:21	8.0	Surface	1.0	0.6	23	29.4	29.4	8.3	8.3	7.9	7.9	122.7	122.7	9.0	7.2	4.7	4.7	4	4	86	84	820751	804874	<0.2	<0.2	1.2	1.2			
						1.0	0.6	25	29.4	29.4	8.3	7.9	7.9	122.7	122.7	9.0	7.2	4.7	4.7	4	4	84	87	<0.2	<0.2	1.2	1.2						
					Middle	4.0	0.5	26	27.3	27.3	7.9	7.9	19.7	19.6	76.3	76.5	5.4	5.5	4.8	4.8	4	4	87	87	<0.2	<0.2	1.2	1.2					
						4.0	0.5	26	27.2	27.2	7.9	7.9	19.6	19.6	76.6	76.5	5.5	5.5	4.8	4.8	4	4	87	89	<0.2	<0.2	1.2	1.1					
					Bottom	7.0	0.3	22	26.5	26.5	7.8	7.8	23.5	23.5	61.8	62.0	4.4	4.4	7.0	7.0	4	4	89	90	<0.2	<0.2	1.1	1.0					
						7.0	0.3	23	26.5	26.5	7.8	7.8	23.5	23.5	62.2	62.0	4.4	4.4	7.0	7.0	4	4	90	90	<0.2	<0.2	1.1	1.0					
IM6	Fine	Moderate	14:13	7.6	Surface	1.0	0.5	28	29.2	29.2	8.3	8.3	9.5	9.6	128.4	128.2	9.3	8.1	4.3	4.4	5	4	85	86	821062	805809	<0.2	<0.2	1.2	1.2			
						1.0	0.5	29	29.2	29.2	8.3	9.6	9.6	128.0	128.0	9.3	8.1	4.4	4.4	4	4	86	88	<0.2	<0.2	1.2	1.2						
					Middle	3.8	0.6	26	28.3	28.3	8.0	8.0	14.1	14.1	95.8	95.6	6.9	6.9	3.5	6.4	4	4	88	87	<0.2	<0.2	1.2	1.2					
						3.8	0.6	28	28.3	28.3	8.0	8.0	14.1	14.1	95.4	95.6	6.9	6.9	3.5	6.4	4	4	87	89	<0.2	<0.2	1.2	1.2					
					Bottom	6.6	0.4	0	26.0	26.0	7.7	7.7	25.6	25.6	48.8	48.8	3.4	3.4	11.2	11.2	4	4	89	90	<0.2	<0.2	1.2	1.2					
						6.6	0.4	0	26.0	26.0	7.7	7.7	25.6	25.6	48.8	48.8	3.4	3.4	11.2	11.2	3	3	90	90	<0.2	<0.2	1.2	1.2					
IM7	Fine	Moderate	14:06	7.5	Surface	1.0	0.5	35	28.7	28.7	8.2	8.2	10.7	10.7	113.8	113.7	8.																

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

Water Quality Monitoring

Water Quality Monitoring Results on 27 July 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	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	Value	DA	Value
IM9	Cloudy	Moderate	14:35	6.6	Surface	1.0	0.3	301	29.6	29.6	8.1	8.1	8.3	8.3	115.2	115.2	8.4	7.9	3.7	4	85	-	-	-	822115	808805	<0.2	1.3	1.3			
						1.0	0.3	298	29.6	8.1	8.1	8.3	8.3	115.1	115.1	8.4	7.9	3.7	4	86	-	-	-	-	-	-	-	<0.2		1.4		
						3.3	0.1	257	29.1	29.1	8.0	8.0	11.8	11.8	100.8	100.8	7.3	3.0	4	87	-	-	-	-	-	-	-	<0.2		1.3		
					Middle	3.3	0.1	259	29.0	29.0	8.0	8.0	11.8	11.8	100.8	100.8	7.3	3.0	4	89	-	-	-	-	-	-	-	<0.2		1.3		
						5.6	0.1	266	28.5	28.5	7.9	7.9	16.0	16.1	94.3	94.3	6.7	6.7	2.4	4	90	-	-	-	-	-	-	-		<0.2	1.4	
						5.6	0.1	277	28.5	28.5	7.9	7.9	16.1	16.1	94.2	94.2	6.7	6.7	2.4	3	90	-	-	-	-	-	-	-		<0.2	1.3	
					Bottom	1.0	0.5	297	29.6	29.6	8.2	8.2	7.9	7.9	116.3	115.9	8.5	7.1	3.9	4	85	-	-	-	-	-	-	-		<0.2	1.4	
						1.0	0.6	282	29.6	29.6	8.2	8.2	7.9	7.9	115.5	115.9	8.4	7.1	3.9	3	85	-	-	-	-	-	-	-		<0.2	1.3	
						3.5	0.4	210	28.5	28.5	7.9	7.9	15.8	15.8	80.6	80.6	5.7	3.0	4	87	-	-	-	-	-	-	-	<0.2		1.4		
Bottom	3.5	0.4	221	28.5	28.5	7.9	7.9	15.8	15.8	80.5	80.5	5.7	2.9	4	88	-	-	-	-	-	-	-	<0.2	1.4								
	6.0	0.3	222	27.2	27.2	7.8	7.8	22.6	22.6	65.0	65.1	4.6	4.6	4.7	4	90	-	-	-	-	-	-	-	<0.2	1.4							
	6.0	0.4	232	27.2	27.2	7.8	7.8	22.6	22.6	65.1	65.1	4.6	4.6	4.7	4	90	-	-	-	-	-	-	-	<0.2	1.3							
IM10	Cloudy	Moderate	14:42	7.0	Surface	1.0	0.5	297	29.6	29.6	8.2	8.2	7.9	7.9	116.3	115.9	8.5	7.1	3.9	4	85	-	-	-	822389	809773	<0.2	1.4	1.4			
						1.0	0.6	282	29.6	29.6	8.2	8.2	7.9	7.9	115.5	115.9	8.4	7.1	3.9	3	85	-	-	-	-	-	-	-		<0.2	1.3	
						3.5	0.4	210	28.5	28.5	7.9	7.9	15.8	15.8	80.6	80.6	5.7	3.0	4	87	-	-	-	-	-	-	-	<0.2		1.4		
					Middle	3.5	0.4	221	28.5	28.5	7.9	7.9	15.8	15.8	80.5	80.5	5.7	2.9	4	88	-	-	-	-	-	-	-	<0.2		1.4		
						6.0	0.3	222	27.2	27.2	7.8	7.8	22.6	22.6	65.0	65.1	4.6	4.6	4.7	4	90	-	-	-	-	-	-	-		<0.2	1.4	
						6.0	0.4	232	27.2	27.2	7.8	7.8	22.6	22.6	65.1	65.1	4.6	4.6	4.7	4	90	-	-	-	-	-	-	-		<0.2	1.3	
					Bottom	1.0	0.5	275	29.1	29.1	8.1	8.1	11.5	11.5	105.0	105.0	7.6	6.4	3.2	3	86	-	-	-	-	-	-	-		<0.2	1.2	
						1.0	0.5	276	29.1	29.1	8.1	8.1	11.5	11.5	105.0	105.0	7.6	6.4	3.2	2	85	-	-	-	-	-	-	-		<0.2	1.2	
						3.6	0.4	210	27.7	27.7	7.8	7.8	20.4	20.5	74.4	74.4	5.2	2.5	4	88	-	-	-	-	-	-	-	<0.2		1.3		
Bottom	3.6	0.5	199	27.6	27.6	7.8	7.8	20.5	20.5	74.4	74.4	5.2	2.5	4	89	-	-	-	-	-	-	-	<0.2	1.3								
	6.2	0.0	228	26.7	26.7	7.8	7.8	24.5	24.4	58.1	58.3	4.1	4.1	3.1	5	90	-	-	-	-	-	-	-	<0.2	1.4							
	6.2	0.0	229	26.7	26.7	7.8	7.8	24.4	24.4	58.4	58.4	4.1	4.1	3.1	4	90	-	-	-	-	-	-	-	<0.2	1.3							
IM11	Cloudy	Moderate	14:50	7.2	Surface	1.0	0.5	275	29.1	29.1	8.1	8.1	11.5	11.5	105.0	105.0	7.6	6.4	3.2	3	86	-	-	-	822042	811457	<0.2	1.3	1.3			
						1.0	0.5	276	29.1	29.1	8.1	8.1	11.5	11.5	105.0	105.0	7.6	6.4	3.2	2	85	-	-	-	-	-	-	-		<0.2	1.2	
						3.6	0.4	210	27.7	27.7	7.8	7.8	20.4	20.5	74.4	74.4	5.2	2.5	4	88	-	-	-	-	-	-	-	<0.2		1.3		
					Middle	3.6	0.5	199	27.6	27.6	7.8	7.8	20.5	20.5	74.4	74.4	5.2	2.5	4	89	-	-	-	-	-	-	-	<0.2		1.3		
						6.2	0.0	228	26.7	26.7	7.8	7.8	24.5	24.4	58.1	58.3	4.1	4.1	3.1	5	90	-	-	-	-	-	-	-		<0.2	1.4	
						6.2	0.0	229	26.7	26.7	7.8	7.8	24.4	24.4	58.4	58.4	4.1	4.1	3.1	4	90	-	-	-	-	-	-	-		<0.2	1.3	
					Bottom	1.0	0.5	267	29.3	29.3	8.2	8.2	10.5	10.5	120.3	120.2	8.7	7.8	3.6	4	85	-	-	-	-	-	-	-		<0.2	1.3	
						1.0	0.5	268	29.3	29.3	8.2	8.2	10.5	10.5	120.0	120.0	8.7	7.8	3.5	4	84	-	-	-	-	-	-	-		<0.2	1.4	
						4.0	0.1	239	28.8	28.8	8.0	8.0	14.7	14.6	97.7	95.9	7.0	3.2	4	88	-	-	-	-	-	-	-	<0.2		1.3		
Bottom	4.0	0.1	240	28.8	28.8	8.0	8.0	14.6	14.6	94.0	95.9	6.7	3.1	4	87	-	-	-	-	-	-	-	<0.2	1.3								
	7.0	0.1	194	26.4	26.4	7.7	7.7	25.8	25.7	51.6	51.8	3.6	3.2	4	89	-	-	-	-	-	-	-	<0.2	1.4								
	7.0	0.1	199	26.5	26.5	7.7	7.7	25.7	25.7	52.0	51.8	3.6	3.2	4	91	-	-	-	-	-	-	-	<0.2	1.4								
SR1A	Cloudy	Moderate	15:16	5.0	Surface	1.0	-	-	29.6	29.6	8.3	8.3	10.1	10.1	134.5	134.5	9.7	9.7	3.3	4	-	-	-	-	819978	812656	-	-	-			
						1.0	-	-	29.6	29.6	8.3	8.3	10.1	10.1	134.5	134.5	9.7	9.7	3.3	4	-	-	-	-	-	-	-	-		-	-	-
						2.5	-	-	-	-	-	-	-	-	-	-	-	9.7	-	-	-	-	-	-	-	-	-	-		-	-	-
					Middle	2.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-
						4.0	-	-	29.1	29.1	8.1	8.1	12.9	12.9	114.1	114.2	8.2	8.2	8.2	5	-	-	-	-	-	-	-	-		-	-	-
						4.0	-	-	29.1	29.1	8.1	8.1	12.9	12.9	114.2	114.2	8.2	8.2	8.2	5	-	-	-	-	-	-	-	-		-	-	-
					Bottom	1.0	0.2	276	29.9	29.9	8.2	8.2	10.0	10.0	136.3	136.4	9.8	9.8	3.3	4	85	-	-	-	-	-	-	-		<0.2	1.3	
						1.0	0.2	281	29.8	29.8	8.2	8.2	10.0	10.0	136.4	136.4	9.8	9.8	3.3	5	86	-	-	-	-	-	-	-		<0.2	1.2	
						-	-	-	-	-	-	-	-	-	-	-	-	-	9.8	-	-	-	-	-	-	-	-	-		-	<0.2	1.3
Bottom	3.6	0.1	333	29.2	29.3	8.1	8.1	12.4	12.4	120.5	120.5	8.6	8.6	9.5	3	90	-	-	-	-	-	-	-	<0.2	1.4							
	3.6	0.1	306	29.3	29.3	8.1	8.1	12.4	12.4	120.5	120.5	8.6	8.6	9.5	4	90	-	-	-	-	-	-	-	<0.2	1.4							
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
SR3	Cloudy	Moderate	14:24	8.5	Surface	1.0	0.5	18	29.5	29.5	8.2	8.2	8.1	8.1	113.8	113.6	8.3	7.3	3.9	4	-	-	-	-	822130	807555	-	-	-			
						1.0	0.5	19	29.5	29.5	8.2	8.2	8.1	8.1	113.4	113.6	8.3	7.3	3.8	3	-	-	-	-	-	-	-	-		-	-	
						4.3	0.2	21	28.6	28.6	7.9	7.9	15.2	15.2	87.2	87.1	6.2	2.7	3	-	-	-	-	-	-	-	-	-		-	-	
					Middle	4.3	0.3	23	28.6	28.6	7.9	7.9	15.2	15.2	87.0	87.1	6.2	2.7	3	-	-	-	-	-	-	-	-	-		-	-	-
						7.5	0.1	20	26.3	26.3	7.7	7.7	26.0	26.0	50.9	51.0	3.6	2.1	3	-	-	-	-	-	-	-	-	-		-	-	
						7.5	0.1	21	26.3	26.3	7.7	7.7	26.0	26.0	51.1	51.0	3.6	2.0	3	-	-	-	-	-	-	-	-	-		-	-	
					Bottom	1.0	0.4	244	30.0	30.0	8.7	8.7	9.5	9.5	166.0	166.0	11.9	9.9	6.0	4	-	-	-	-	-	-	-	-		-	-	-
						1.0	0.5	246	30.0	30.0	8.7	8.7	9.5	9.5	166.0	166.0	11.9	9.9	6.1	5	-	-	-	-	-	-	-	-		-	-	-
						4.8	0.4	256	28.3	28.3	8.2	8.2	18.2	18.2	113.3	113.1	8.0	5.9	5	-	-	-	-	-	-	-	-	-		-	-	-
Bottom	4.8	0.5	267	28.3	28.3	8.2	8.2	18.2	18.2	112.9	113.1	7.9	5.9	5	-	-	-	-	-	-	-	-	-	-	-	-						
	8.6	0.3	250	24.8	24.8	7.7	7.7	30.5	30.5	45.1	45.8	3.1	14.3	4	-	-	-	-	-	-	-	-	-	-	-	-						
	8.6	0.3	268	24.8	24.8	7.7	7.7	30.5	30.5	46.5	45.8	3.2	14.3</																			

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

Water Quality Monitoring

Water Quality Monitoring Results on 30 July 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	Rainy	Calm	11:52	8.5	Surface	1.0	0.4	190	27.0	27.0	8.2	8.2	21.6	21.6	93.4	93.3	6.6	6.6	2.6	6	86	88	88	88	88	815612	804256	<0.2	1.2	<0.2	1.3								
						1.0	0.4	198	26.9	27.0	8.2	8.2	21.7	21.7	93.2	93.3	6.6	6.6	2.8	4	86	88	88	88				<0.2	1.1	<0.2	1.2								
						4.3	0.6	191	26.2	26.3	7.9	7.9	23.7	23.6	71.2	71.3	5.0	5.0	6.3	4	88	89	89	89				<0.2	1.1	<0.2	1.2								
					Middle	4.3	0.6	204	26.3	26.3	8.0	7.9	23.5	23.6	71.3	71.3	5.0	5.0	6.3	4	89	89	89	89				88	88	<0.2	1.1	<0.2	1.1						
						7.5	0.3	193	25.1	25.2	7.8	7.8	29.0	29.0	54.1	54.4	3.8	3.8	10.8	5	90	90	90	90				88	88	<0.2	1.1	<0.2	1.1						
						7.5	0.4	199	25.2	25.2	7.8	7.8	29.0	29.0	54.7	54.7	3.8	3.8	10.8	4	90	90	90	90				88	88	<0.2	1.1	<0.2	1.1						
					C2	Cloudy	Moderate	12:37	12.0	Surface	1.0	0.3	173	27.5	27.5	7.9	7.9	19.1	19.1	75.9	75.9	5.4	5.4	3.0				4	86	86	86	86	88	825676	806962	<0.2	1.3	<0.2	1.2
											1.0	0.3	176	27.5	27.5	7.9	7.9	19.1	19.1	75.9	75.9	5.4	5.4	2.9				3	86	86	86	86				<0.2	0.9	<0.2	0.9
											6.0	0.3	164	26.0	26.0	7.8	7.8	25.0	25.0	47.5	47.5	3.4	3.4	8.3				5	89	89	89	89				<0.2	0.9	<0.2	0.9
Middle	6.0	0.4	175	25.9						25.9	7.8	7.8	25.0	25.0	47.5	47.5	3.4	3.4	8.3	6	88	88	88	88	88	88	<0.2	0.9	<0.2	0.9									
	11.0	0.4	144	25.6						25.6	7.8	7.8	29.4	29.4	51.9	51.9	3.6	3.6	8.8	5	90	90	90	90	88	88	<0.2	2.0	<0.2	1.9									
	11.0	0.4	152	25.6						25.6	7.8	7.8	29.4	29.4	51.9	51.9	3.6	3.6	8.8	5	88	88	88	88	88	88	<0.2	1.9	<0.2	1.9									
C3	Cloudy	Moderate	10:34	11.6						Surface	1.0	0.3	107	26.5	26.5	8.0	8.0	26.3	26.3	81.0	80.9	5.6	5.6	1.3	10	85	86	86	86	88	822110	817802				<0.2	2.2	<0.2	2.4
											1.0	0.3	110	26.5	26.5	8.0	8.0	26.3	26.3	80.7	80.9	5.6	5.6	1.3	10	86	87	87	87							<0.2	2.2	<0.2	2.2
											5.8	0.2	54	25.9	25.9	7.9	7.9	28.8	28.8	68.5	68.5	4.7	4.7	1.8	11	88	88	88	88							<0.2	2.2	<0.2	2.2
					Middle	5.8	0.2	54	25.9	25.9	7.9	7.9	28.8	28.8	68.5	68.5	4.7	4.7	1.8	11	88	88	88	88	88	88	<0.2	2.2	<0.2				2.2						
						10.6	0.3	107	25.1	25.1	7.9	7.9	30.8	30.8	55.0	55.1	3.8	3.8	4.3	11	90	90	90	90	88	88	<0.2	2.1	<0.2				1.9						
						10.6	0.3	109	25.1	25.1	7.9	7.9	30.8	30.8	55.2	55.1	3.8	3.8	4.2	10	90	90	90	90	88	88	<0.2	1.9	<0.2				1.9						
					IM1	Cloudy	Moderate	12:08	5.8	Surface	1.0	0.3	176	27.0	27.0	8.1	8.1	21.3	21.4	99.2	99.1	7.0	7.0	2.5	6	85	85	85	85				86	817943	807117	<0.2	2.1	<0.2	2.1
											1.0	0.3	190	27.0	27.0	8.1	8.1	21.4	21.4	99.0	99.1	7.0	7.0	2.6	6	85	85	85	85							<0.2	2.1	<0.2	2.1
											-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							-	-	-	-
Middle	-	-	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	86	817943	807117	<0.2	-	<0.2				-			
	4.8	0.3	167	26.6						26.6	8.0	8.0	23.2	23.2	92.4	92.7	6.5	6.5	3.5	5	87	87	87	87	86	86	<0.2	2.2	<0.2	2.2									
	4.8	0.3	167	26.6						26.6	8.0	8.0	23.2	23.2	93.0	92.7	6.6	6.6	3.5	4	87	87	87	87	86	86	<0.2	2.2	<0.2	2.2									
IM2	Cloudy	Moderate	12:15	7.7						Surface	1.0	0.3	116	26.7	26.7	8.0	8.0	22.8	22.7	87.4	87.3	6.2	6.2	3.3	4	85	85	85	85	87	818182	806183				<0.2	2.4	<0.2	2.4
											1.0	0.3	124	26.7	26.7	8.0	8.0	22.7	22.7	87.2	87.3	6.2	6.2	3.3	5	85	85	85	85							<0.2	2.4	<0.2	2.4
											3.9	0.2	130	25.7	25.7	7.8	7.8	26.6	26.6	58.9	59.0	4.1	4.1	4.0	3	87	87	87	87							<0.2	2.2	<0.2	2.3
					Middle	3.9	0.2	142	25.7	25.7	7.8	7.8	26.6	26.6	59.0	59.0	4.1	4.1	4.0	4	88	88	88	88	87	87	<0.2	2.3	<0.2				2.3						
						6.7	0.1	159	25.2	25.2	7.8	7.8	28.2	28.3	55.1	55.2	3.9	3.9	6.0	3	89	89	89	89	87	87	<0.2	2.5	<0.2				2.5						
						6.7	0.1	174	25.2	25.2	7.8	7.8	28.3	28.3	55.3	55.2	3.9	3.9	6.2	3	90	90	90	90	87	87	<0.2	2.4	<0.2				2.4						
					IM3	Cloudy	Moderate	12:21	8.0	Surface	1.0	0.1	260	26.9	26.9	8.1	8.1	21.8	21.8	91.9	91.8	6.5	6.5	2.7	4	85	85	85	85				88	818792	805591	<0.2	2.4	<0.2	2.6
											1.0	0.1	276	26.9	26.9	8.1	8.1	21.8	21.8	91.6	91.8	6.5	6.5	2.7	4	86	86	86	86							<0.2	2.6	<0.2	2.6
											4.0	0.2	182	26.0	26.0	7.9	7.9	24.8	24.8	66.5	66.5	4.7	4.7	3.4	4	88	88	88	88							<0.2	2.5	<0.2	2.5
Middle	4.0	0.2	187	26.0						26.0	7.9	7.9	24.8	24.8	66.4	66.5	4.7	4.7	3.4	5	89	89	89	89	88	88	<0.2	2.5	<0.2	2.5									
	7.0	0.3	201	25.1						25.1	7.8	7.8	28.8	28.8	51.7	51.9	3.6	3.6	7.9	5	90	90	90	90	88	88	<0.2	2.4	<0.2	2.4									
	7.0	0.3	201	25.1						25.1	7.8	7.8	28.8	28.8	52.0	51.9	3.6	3.6	7.9	5	90	90	90	90	88	88	<0.2	2.3	<0.2	2.3									
IM4	Cloudy	Moderate	12:29	8.4						Surface	1.0	0.8	169	26.7	26.7	8.0	8.0	22.6	22.6	84.7	84.7	6.0	6.0	3.5	6	84	85	85	85	87	819716	804609				<0.2	2.1	<0.2	2.0
											1.0	0.9	179	26.7	26.7	8.0	8.0	22.6	22.6	84.6	84.7	6.0	6.0	3.6	5	85	85	85	85							<0.2	2.0	<0.2	2.0
											4.2	0.8	181	25.9	25.9	7.8	7.8	25.3	25.3	63.8	63.8	4.5	4.5	4.6	4	87	87	87	87							<0.2	1.8	<0.2	1.6
					Middle	4.2	0.8	182	25.9	25.9	7.8	7.8	25.3	25.3	63.7	63.8	4.5	4.5	4.6	3	88	88	88	88	87	87	<0.2	1.6	<0.2				1.6						
						7.4	0.6	166	25.8	25.8	7.8	7.8	28.3	28.3	65.0	66.2	4.5	4.5	15.6	3	89	89	89	89	87	87	<0.2	1.8	<0.2				1.7						
						7.4	0.6	182	25.9	25.9	7.8	7.8	28.3	28.3	67.3	66.2	4.7	4.6	15.2	<2	89	89	89	89	87	87	<0.2	1.7	<0.2				1.7						
					IM5	Cloudy	Moderate	12:37	7.5	Surface	1.0	0.6	209	27.0	27.0	8.0	8.0	20.8	20.8	96.6	96.5	6.9	6.9	3.0	4	84	85	85	85				87	820718	804861	<0.2	2.3	<0.2	2.3
											1.0	0.6	227	27.0	27.0	8.0	8.0	20.8	20.8	96.4	96.5	6.8	6.8	3.0	5	85	85	85	85							<0.2	2.3	<0.2	2.3
											3.8	0.6	244	26.4	26.4	8.0	7.9	22.6	22.6	77.5	77.3	5.5	5.5	3.3	5	88	88	88	88							<0.2	2.3	<0.2	2.3
Middle	3.8	0.7	244	26.4						26.4	7.9	7.9	22.6	22.6	77.1	77.3	5.5	5.5	3.3	5	89	89	89	89	87	87	<0.2	2.4	<0.2	2.4									
	6.5	0.6	228	25.0						25.0	7.8	7.8	29.0	29.0	52.6	52.9	3.7	3.7	8.9	5	89	89	89	89	87	87	<0.2	2.5	<0.2	2.5									
	6.5	0.6	233	25.0						25.0	7.8	7.8	29.0	29.0	53.1</																								

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

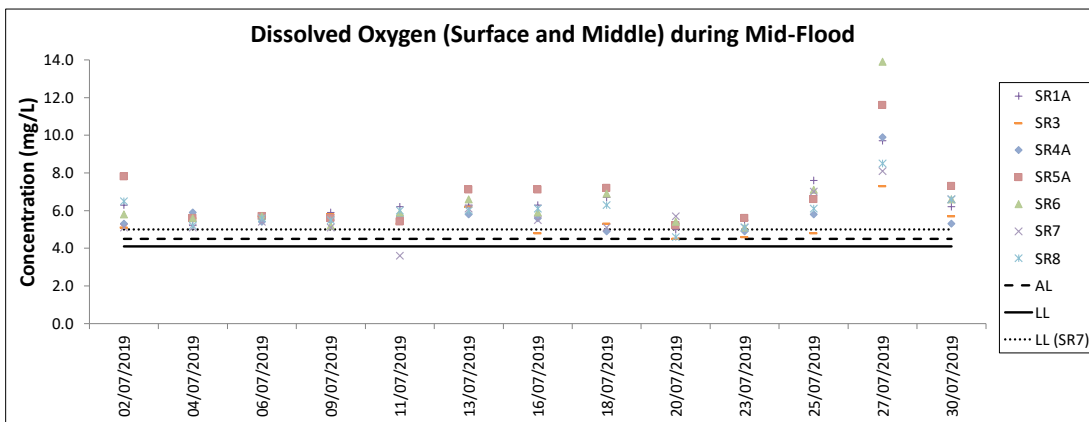
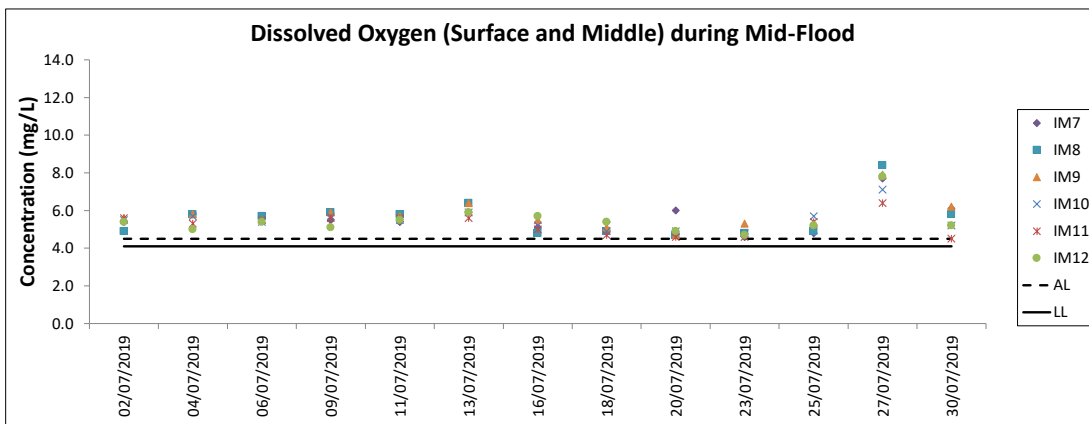
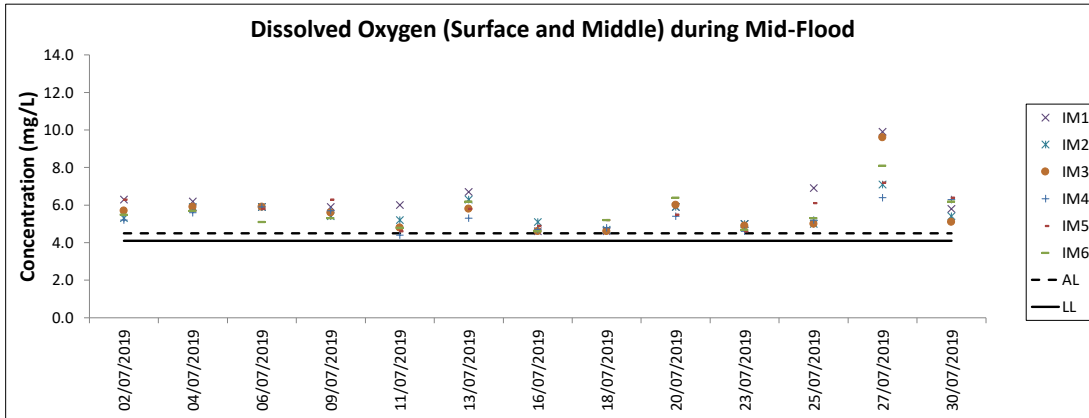
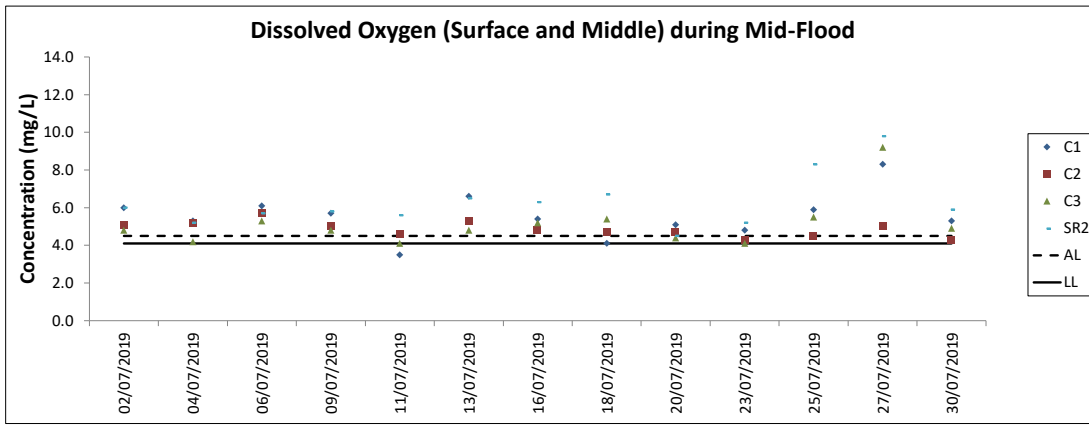
Water Quality Monitoring Results on 30 July 19 during Mid-Ebb Tide

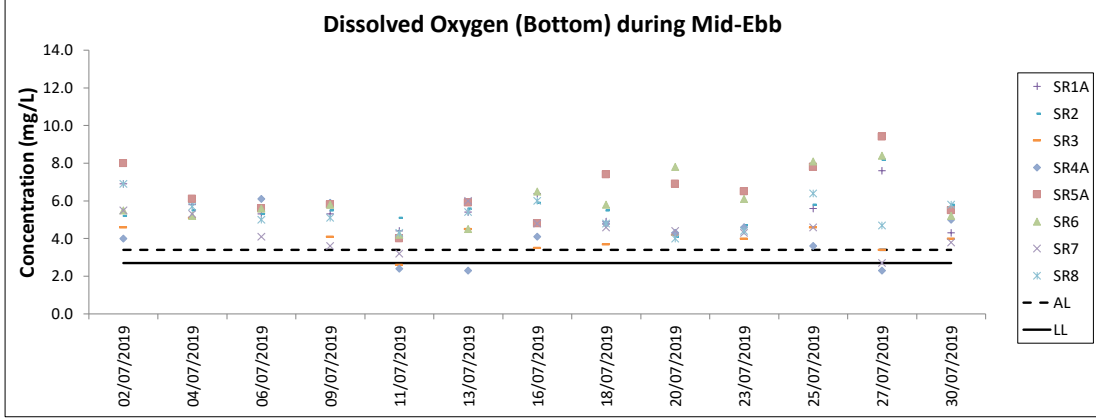
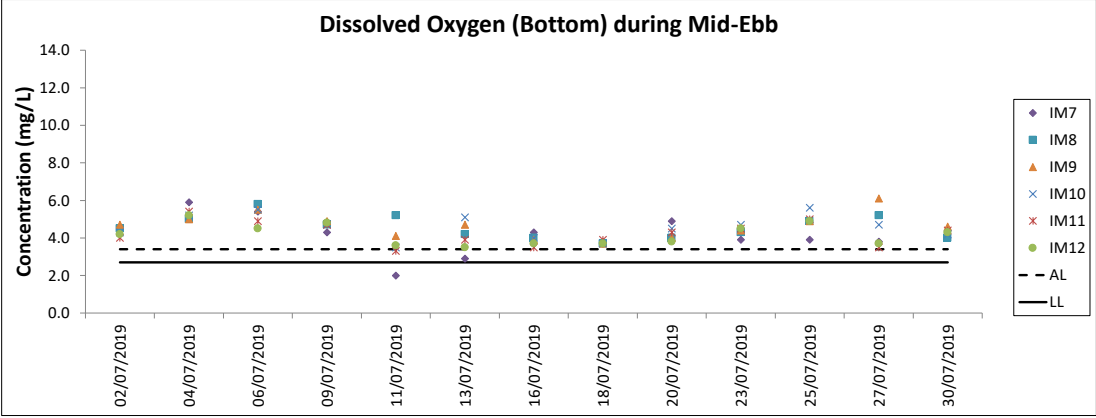
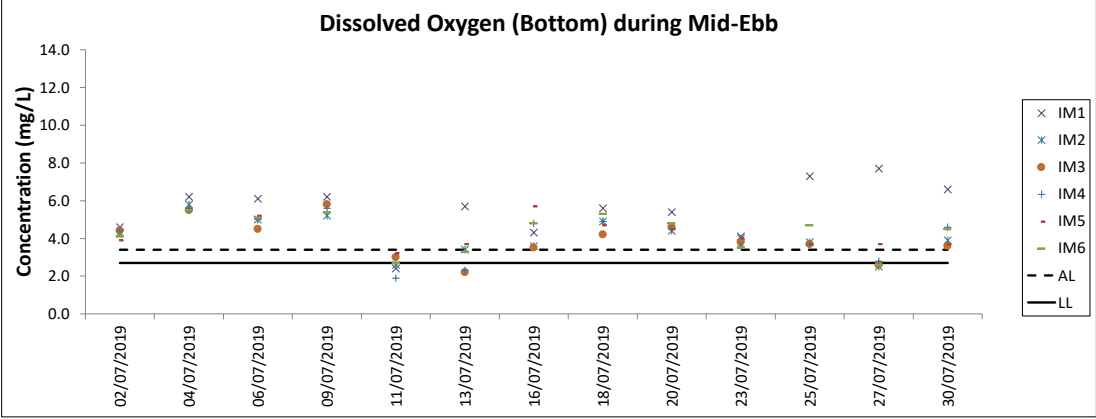
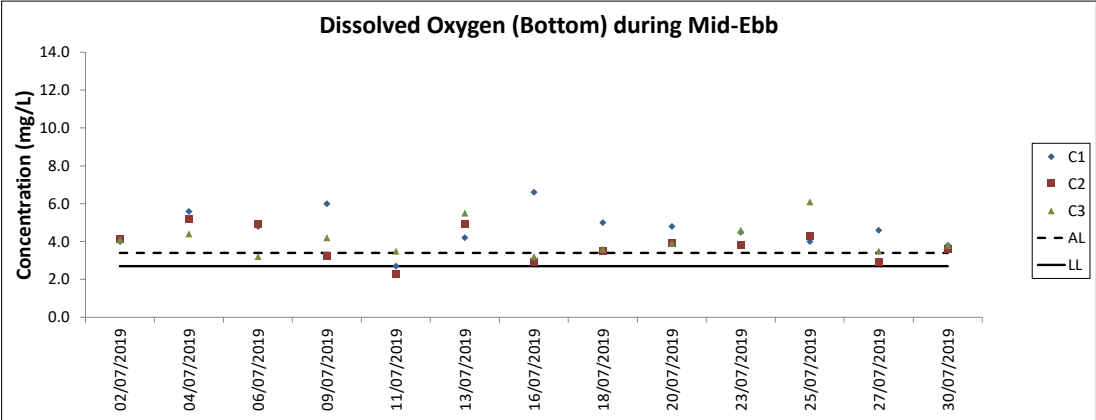
Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)	Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity (NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (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	Moderate	11:52	7.1	Surface	1.0	0.2	118	27.7	27.7	8.1	8.1	20.9	20.9	95.4	95.3	6.7	1.9	4	86	88	822100	808803	<0.2	3.0	<0.2	3.0							
						1.0	0.2	127	27.7	8.1	8.1	21.0	21.0	95.2	95.2	6.7	2.0	4	85	85	82	85												
						3.6	0.3	77	27.4	8.1	8.1	21.5	21.5	85.2	85.0	6.0	2.7	4	87	88	82	87												
					Middle	3.6	0.3	78	27.3	27.4	8.1	8.1	21.5	21.5	84.8	85.0	6.0	2.8	5	88	88	82	88											
						6.1	0.3	78	26.7	26.7	7.9	7.9	24.1	24.2	65.7	65.7	4.6	5.3	5	90	90	82	90											
						6.1	0.3	80	26.6	26.6	7.9	7.9	24.2	24.2	65.7	65.7	4.6	5.5	6	89	89	82	89											
					IM10	Cloudy	Moderate	11:45	7.4	Surface	1.0	0.5	96	27.6	27.6	8.1	8.1	21.5	21.5	95.2	95.2	6.7	1.3	4	86			88	822394	809801	<0.2	2.8	<0.2	2.8
											1.0	0.6	98	27.6	27.6	8.1	8.1	21.5	21.5	95.1	95.1	6.7	1.3	4	85			85	82	85				
											3.7	0.5	95	27.0	27.0	7.9	7.9	23.1	23.1	71.4	71.2	5.0	4.0	5	88			88	82	88				
Middle	3.7	0.5	99	27.0						27.0	7.9	7.9	23.1	23.1	71.0	71.0	5.0	4.0	5	90	90	82	90											
	6.4	0.4	109	26.6						26.6	7.9	7.9	24.5	24.5	60.3	60.3	4.2	12.7	8	89	89	82	89											
	6.4	0.4	114	26.6						26.6	7.9	7.9	24.5	24.5	60.3	60.3	4.2	12.7	7	90	90	82	90											
IM11	Cloudy	Moderate	11:38	8.0						Surface	1.0	0.7	113	27.4	27.4	8.0	8.0	21.3	21.3	80.5	80.5	5.7	3.9	5	86	88	822049	811454	<0.2	3.0	<0.2	3.1		
											1.0	0.7	120	27.4	27.4	8.0	8.0	21.3	21.3	80.4	80.4	5.7	3.9	6	86	86	82	86						
											4.0	0.6	119	26.4	26.4	7.9	7.9	25.8	25.9	61.5	61.5	4.3	5.2	7	88	88	82	88						
					Middle	4.0	0.6	122	26.4	26.4	7.9	7.9	25.9	25.9	61.5	61.5	4.3	5.3	6	89	89	82	89											
						7.0	0.4	117	26.3	26.3	7.9	7.9	26.6	26.6	62.6	62.8	4.4	5.4	9	90	90	82	90											
						7.0	0.4	127	26.3	26.3	7.9	7.9	26.6	26.6	62.9	62.8	4.4	5.5	8	90	90	82	90											
					IM12	Cloudy	Moderate	11:22	8.5	Surface	1.0	0.6	112	27.4	27.4	8.1	8.1	22.0	22.0	86.4	86.2	6.0	2.3	4	86	88	821468	812043	<0.2	3.1			<0.2	3.0
											1.0	0.7	120	27.4	27.4	8.1	8.1	22.1	22.0	86.0	86.0	6.0	2.4	4	85	85	82	85						
											4.3	0.4	106	26.9	26.9	7.9	7.9	23.1	23.1	73.5	73.3	5.2	3.1	5	86	86	82	86						
Middle	4.3	0.4	110	26.8						26.8	7.9	7.9	23.2	23.1	73.1	73.1	5.1	3.2	6	88	88	82	88											
	7.5	0.2	108	26.0						26.0	7.9	7.9	27.7	27.7	62.0	62.1	4.3	4.1	7	90	90	82	90											
	7.5	0.2	116	26.0						26.0	7.9	7.9	27.7	27.7	62.2	62.1	4.3	4.1	8	89	89	82	89											
SR1A	Cloudy	Moderate	11:09	5.0						Surface	1.0	-	-	27.5	27.5	8.1	8.1	21.7	21.7	91.0	90.8	6.4	1.6	6	-	-	819970	812664	-	-	-	-		
											1.0	-	-	27.5	27.5	8.1	8.1	21.7	21.7	90.6	90.6	6.3	1.8	7	-	-	81	81						
											2.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	82	82				
					Middle	2.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	83	83	-	-	83	83					
						4.0	-	-	26.0	26.0	7.9	7.9	27.7	27.7	61.3	61.4	4.3	4.0	8	-	-	-	-	84	84	-	-	84	84					
						4.0	-	-	26.0	26.0	7.9	7.9	27.8	27.7	61.4	61.4	4.3	4.1	7	-	-	-	-	85	85	-	-	85	85					
					SR2	Cloudy	Moderate	11:00	4.6	Surface	1.0	0.8	111	27.5	27.5	8.1	8.1	21.6	21.6	95.0	95.0	6.7	1.4	6	85	88	821453	814184	<0.2	3.0			<0.2	3.1
											1.0	0.8	121	27.5	27.5	8.1	8.1	21.6	21.6	94.9	94.9	6.7	1.4	5	86	86	82	86						
											-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	83	83				
Middle	-	-	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	84	84	-	-	84	84					
	3.6	0.5	125	27.1						27.1	8.0	8.0	23.8	23.8	83.4	83.4	5.8	2.5	8	89	89	82	89											
	3.6	0.5	132	27.1						27.1	8.1	8.0	23.8	23.8	83.4	83.4	5.8	2.4	8	90	90	82	90											
SR3	Cloudy	Moderate	12:07	8.3						Surface	1.0	0.2	170	27.4	27.4	8.0	8.0	21.9	21.9	77.1	77.1	5.4	2.9	3	-	-	822156	807552	-	-	-	-		
											1.0	0.2	182	27.3	27.3	8.0	8.0	21.9	21.9	77.0	77.0	5.4	2.9	4	-	-	83	83						
											4.2	0.0	179	26.6	26.6	7.9	7.9	24.3	24.4	59.6	59.6	4.2	4.0	6	-	-	84	84						
					Middle	4.2	0.0	190	26.6	26.6	7.9	7.9	24.3	24.4	59.5	59.6	4.2	4.2	5	-	-	85	85											
						7.3	0.1	66	26.3	26.3	7.9	7.9	25.3	25.4	57.4	57.4	4.0	5.1	5	-	-	86	86											
						7.3	0.1	70	26.3	26.3	7.9	7.9	25.4	25.4	57.3	57.4	4.0	5.1	6	-	-	87	87											
					SR4A	Rainy	Calm	11:26	9.5	Surface	1.0	0.2	240	26.6	26.6	8.0	8.0	22.7	22.7	87.2	87.2	6.2	3.5	6	-	-	817208	807833	-	-			-	-
											1.0	0.2	245	26.6	26.6	8.0	8.0	22.7	22.7	87.1	87.1	6.2	3.5	7	-	-	82	82						
											4.8	0.1	77	26.2	26.2	7.9	7.9	23.8	23.8	75.0	74.9	5.3	5.9	6	-	-	83	83						
Middle	4.8	0.1	82	26.1						26.1	7.9	7.9	23.8	23.8	74.7	74.9	5.3	6.1	6	-	-	84	84											
	8.5	0.0	80	25.4						25.4	7.8	7.8	27.6	27.6	69.3	70.1	4.9	8.1	7	-	-	85	85											
	8.5	0.0	82	25.4						25.4	7.8	7.8	27.6	27.6	70.9	70.9	5.0	8.2	8	-	-	86	86											
SR5A	Rainy	Calm	11:11	5.5						Surface	1.0	0.1	272	27.7	27.7	8.1	8.1	20.2	20.2	93.4	93.3	6.6	3.9	6	-	-	816616	810694	-	-	-	-		
											1.0	0.1	283	27.6	27.6	8.1	8.1	20.2	20.2	93.1	93.1	6.6	4.0	7	-	-	82	82						
											-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	83	83				
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	84	84	-	-	84	84					
						4.5	0.2	46	26.8	26.8	7.9	7.9	22.8	22.8	77.7	77.7	5.5	5.5	5	-	-	85	85											
						4.5	0.2	49	26.8	26.8	7.9	7.9	22.8	22.8	77.7	77.7	5.5	5.5	4	-	-	86	86											
					SR6	Rainy	Calm	10:34	5.2	Surface	1.0	0.1	124	26.7	26.7	7.8	7.8	22.7	22.7	78.3	78.3	5.5	4.3	4	-	-	817909	814642	-	-			-	-
											1.0	0.1	133	26.7	26.7	7.8	7.8	22.7	22.7	78.2	78.3	5.5	4.6	5	-	-	82	82						
											-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	83	83				
Middle	-	-	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	84	84	-	-	84	84					
	4.2	0.1	160	26.4						26.4	7.8	7.8	24.5	24.5	74.2	74.4	5.2	6.0	3	-	-	85	85											
	4.2	0.1	170	26.4						26.4	7.8	7.8	24.5	24.5	74.6	74.4	5.2	5.9	4	-	-	86	86											
SR7	Cloudy	Moderate	10:03	16.5						Surface	1.0	0.5	63	26.4	26.4	8.0	8.0	27.2	27.2	86.6	86.6	5.9	0.9	6	-	-	823646	823718	-	-	-	-		
											1.0	0.5	67	26.4	26.4	8.0	8.0	27.2	27.2	86.6	86.6	5.9	0.9	4	-	-	83	83						
											8.3	0.6	96	25.5	25.5	7.9	7.9	29.8</																

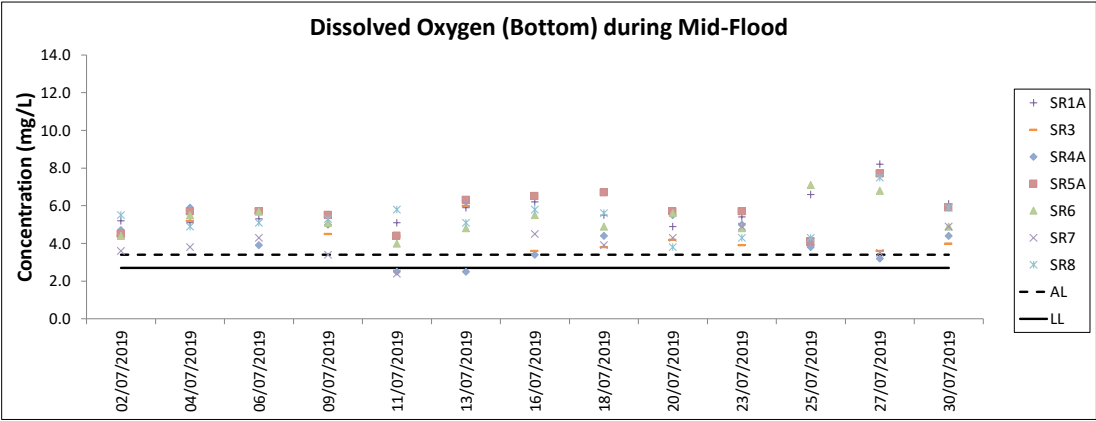
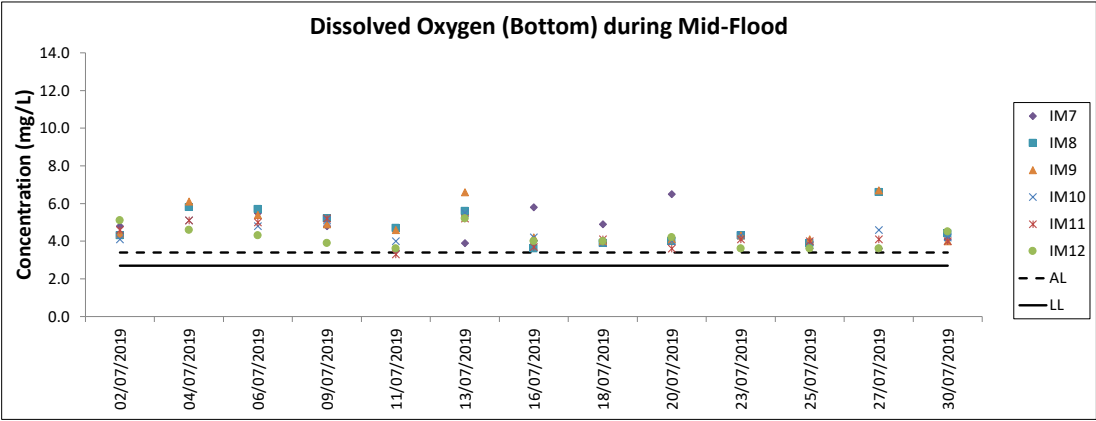
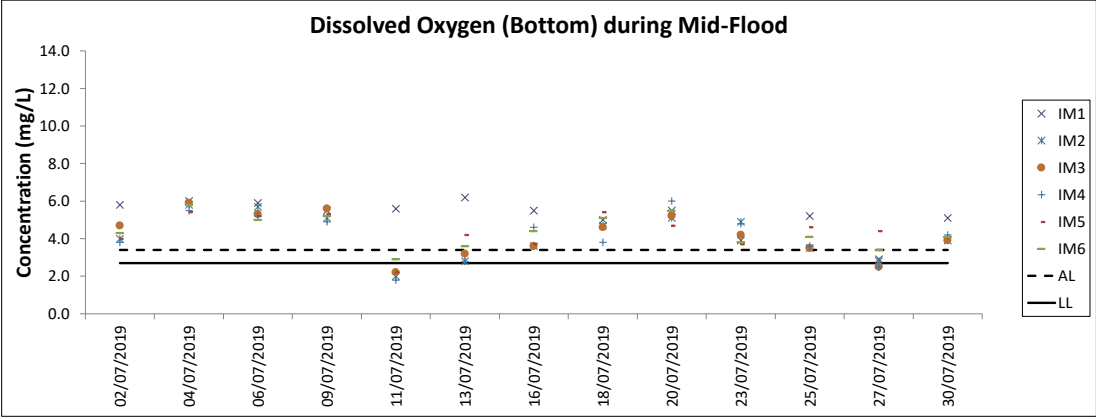
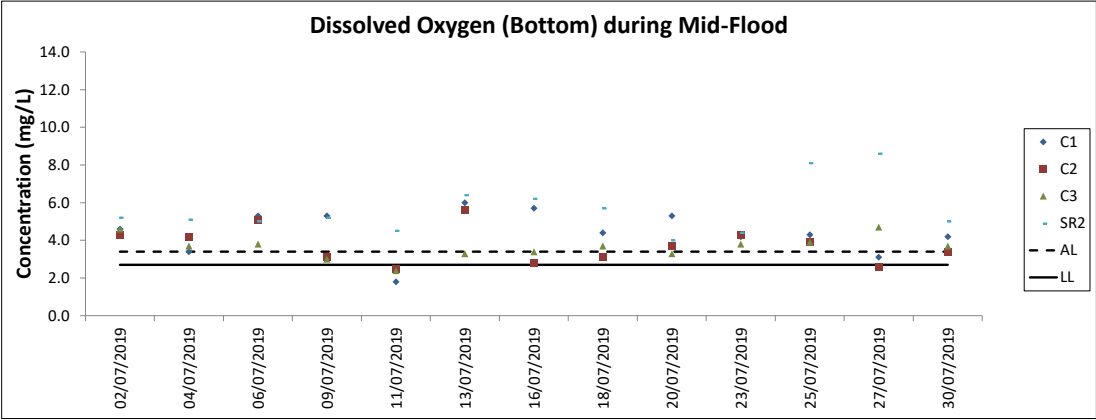
Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring

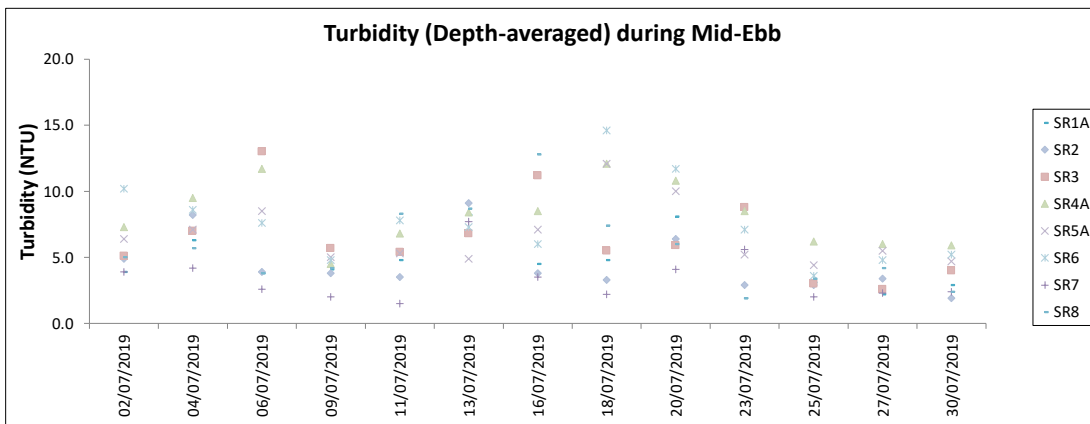
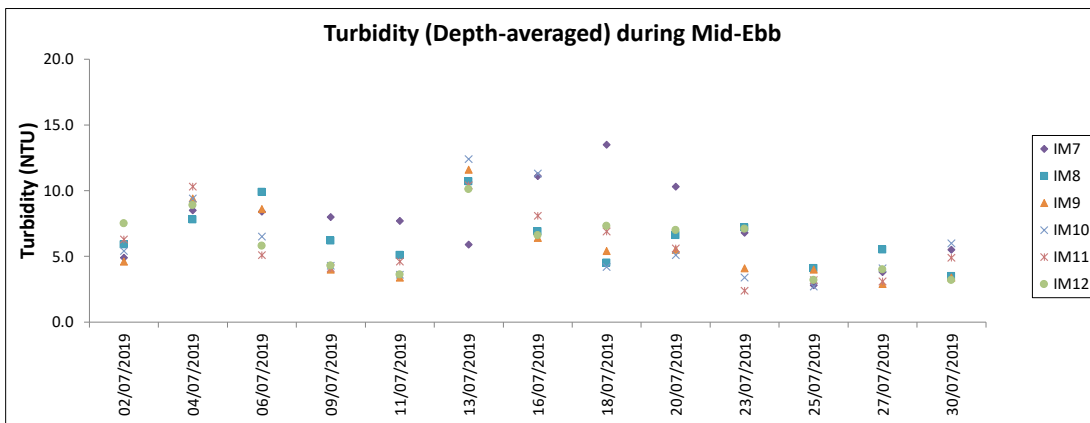
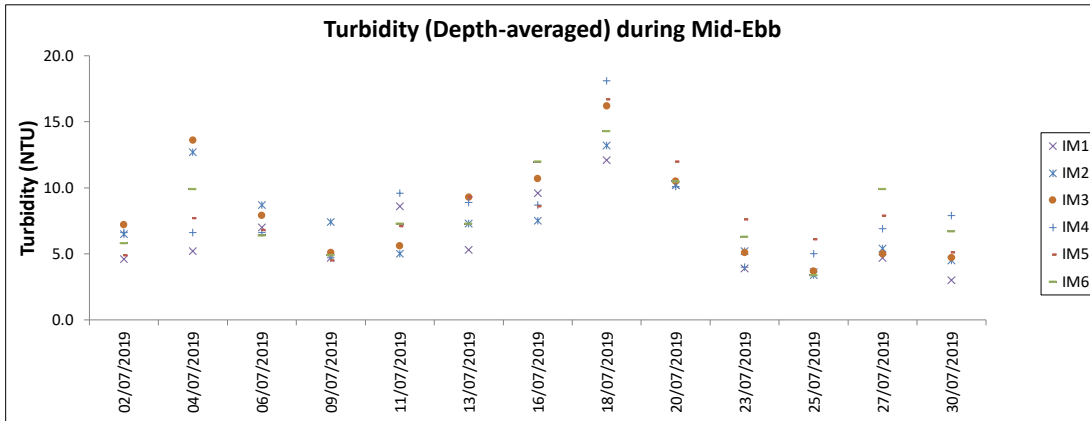
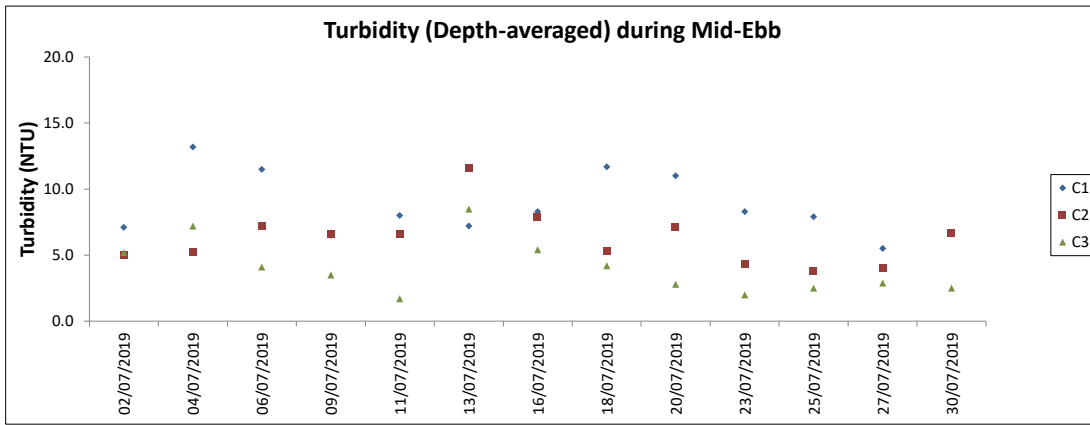
Water Quality Monitoring Results on 30 July 19 during Mid-Flood Tide

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	Cloudy	Moderate	17:44	7.6	Surface	1.0	0.3	343	27.8	27.8	8.1	8.1	20.2	20.2	102.1	102.0	7.2	7.2	2.1	6	86	88	88	822098	808811	<0.2	<0.2	3.1	3.1								
						1.0	0.4	345	27.8	27.8	8.1	8.1	20.3	20.3	101.8	101.8	7.2	7.2	2.2	7	86	86	86	86	86	86	86	86	<0.2	<0.2	3.0	3.0					
						3.8	0.3	298	27.2	27.2	8.0	8.0	22.6	22.6	74.4	74.4	5.2	5.2	3.3	7	87	87	87	87	87	87	87	87	<0.2	<0.2	3.2	3.2					
					Middle	3.8	0.3	302	27.2	27.2	8.0	8.0	22.6	22.6	74.6	74.6	5.2	5.2	3.6	6	88	88	88	88	88	88	88	88	<0.2	<0.2	3.1	3.1					
						6.6	0.3	311	26.3	26.3	7.9	7.9	25.6	25.6	57.2	57.2	4.0	4.0	8.3	8	90	90	90	90	90	90	90	90	<0.2	<0.2	3.0	3.0					
						6.6	0.3	309	26.3	26.3	7.9	7.9	25.6	25.6	57.4	57.4	4.0	4.0	8.4	7	90	90	90	90	90	90	90	90	<0.2	<0.2	3.1	3.1					
					IM10	Cloudy	Moderate	17:52	7.2	Surface	1.0	0.7	313	27.3	27.3	8.0	8.0	20.7	20.8	87.9	85.9	6.2	6.2	2.6	8	86	87	87	822379	809776	<0.2	<0.2	3.1	3.1			
											1.0	0.7	307	27.2	27.2	8.0	8.0	20.8	20.8	83.8	83.8	5.9	5.9	2.7	7	87	87	87	87	87	87	87	87	<0.2	<0.2	3.0	3.0
											3.6	0.6	297	26.7	26.7	7.9	7.9	24.3	24.3	61.8	61.8	4.3	4.3	3.5	8	89	89	89	89	89	89	89	89	<0.2	<0.2	3.2	3.2
Middle	3.6	0.6	293	26.7						26.7	7.9	7.9	24.3	24.3	61.8	61.8	4.3	4.3	3.5	8	89	89	89	89	89	89	89	89	<0.2	<0.2	3.2	3.2					
	6.2	0.4	295	26.5						26.5	7.9	7.9	24.9	24.9	60.2	60.2	4.2	4.2	6.3	7	90	90	90	90	90	90	90	90	<0.2	<0.2	3.1	3.1					
	6.2	0.5	296	26.5						26.5	7.9	7.9	24.9	24.9	60.4	60.4	4.2	4.2	6.4	6	91	91	91	91	91	91	91	91	<0.2	<0.2	3.1	3.1					
IM11	Cloudy	Moderate	18:02	8.0						Surface	1.0	0.7	303	27.1	27.1	8.0	8.0	21.9	21.9	73.1	73.0	5.1	5.1	3.5	8	85	86	86	822037	811464	<0.2	<0.2	2.9	2.9			
											1.0	0.7	304	27.1	27.1	8.0	8.0	21.9	21.9	72.8	72.8	5.1	5.1	3.6	8	86	86	86	86	86	86	86	86	<0.2	<0.2	3.0	3.0
											4.0	0.4	313	26.4	26.4	7.9	7.9	25.2	25.2	55.7	55.8	3.9	3.9	8.0	11	88	88	88	88	88	88	88	<0.2	<0.2	3.0	3.0	
					Middle	4.0	0.4	308	26.4	26.4	7.9	7.9	25.2	25.2	55.8	55.8	3.9	3.9	8.0	10	88	88	88	88	88	88	88	88	<0.2	<0.2	3.0	3.0					
						7.0	0.1	298	26.4	26.4	7.9	7.9	25.4	25.4	57.3	57.4	4.0	4.0	10.5	12	90	90	90	90	90	90	90	90	<0.2	<0.2	3.1	3.1					
						7.0	0.1	285	26.4	26.4	7.9	7.9	25.4	25.4	57.4	57.4	4.0	4.0	10.4	12	90	90	90	90	90	90	90	90	<0.2	<0.2	3.0	3.0					
					IM12	Cloudy	Moderate	18:09	8.6	Surface	1.0	0.4	281	27.3	27.3	8.0	7.9	20.6	20.6	81.2	81.0	5.7	5.7	2.6	7	85	85	85	821475	812055	<0.2	<0.2	3.1	3.1			
											1.0	0.5	284	27.3	27.3	7.9	7.9	20.6	20.6	80.8	80.8	5.7	5.7	2.8	7	85	85	85	85	85	85	85	85	<0.2	<0.2	3.1	3.1
											4.3	0.3	295	26.9	26.9	7.9	7.9	23.6	23.6	66.7	66.7	4.7	4.7	7.1	5	89	89	89	89	89	89	89	89	<0.2	<0.2	3.2	3.2
Middle	4.3	0.3	299	26.9						26.9	7.9	7.9	23.6	23.6	66.6	66.7	4.7	4.7	7.2	5	89	89	89	89	89	89	89	89	<0.2	<0.2	3.2	3.2					
	7.6	0.2	283	26.7						26.7	7.9	7.9	24.4	24.4	63.7	63.8	4.5	4.5	9.8	6	90	90	90	90	90	90	90	90	<0.2	<0.2	3.2	3.2					
	7.6	0.2	276	26.7						26.7	7.9	7.9	24.4	24.4	63.8	63.8	4.5	4.5	9.8	5	90	90	90	90	90	90	90	90	<0.2	<0.2	3.2	3.2					
SR1A	Cloudy	Moderate	18:28	5.3						Surface	1.0	-	-	27.5	27.5	8.0	8.0	22.0	22.0	89.3	89.1	6.2	6.2	3.4	5	-	-	-	819972	812657	-	-	-	-			
											1.0	-	-	27.5	27.5	8.0	8.0	22.0	22.0	88.8	88.8	6.2	6.2	3.4	4	-	-	-	-	-	-	-	-	-	-		
											2.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
					Middle	2.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
						4.3	-	-	27.4	27.5	8.1	8.1	22.3	22.3	86.7	86.8	6.1	6.1	4.6	7	-	-	-	-	-	-	-	-	-	-	-						
						4.3	-	-	27.5	27.5	8.1	8.1	22.3	22.3	86.9	86.9	6.1	6.1	4.6	6	-	-	-	-	-	-	-	-	-	-	-						
					SR2	Cloudy	Moderate	18:40	4.6	Surface	1.0	0.3	222	27.0	27.0	7.9	7.9	20.9	20.9	83.2	82.8	5.9	5.9	4.1	5	86	86	86	821486	814180	<0.2	<0.2	3.1	3.1			
											1.0	0.4	226	27.0	27.0	7.9	7.9	21.0	21.0	82.4	82.4	5.9	5.9	4.3	4	86	86	86	86	86	86	86	86	<0.2	<0.2	3.0	3.0
											-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Middle	-	-	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
	3.6	0.2	233	26.8						26.8	7.9	7.9	24.1	24.1	71.5	71.7	5.0	5.0	5.4	4	88	88	88	88	88	88	88	88	<0.2	<0.2	3.1	3.1					
	3.6	0.2	245	26.8						26.8	7.9	7.9	24.1	24.1	71.9	71.9	5.0	5.0	5.2	5	88	88	88	88	88	88	88	88	<0.2	<0.2	3.1	3.1					
SR3	Cloudy	Moderate	17:30	8.6						Surface	1.0	0.1	174	28.0	28.0	8.1	8.1	20.2	20.2	102.1	102.0	7.1	7.1	1.7	6	-	-	-	822160	807584	-	-	-	-			
											1.0	0.2	182	28.0	28.0	8.1	8.1	20.2	20.2	101.8	101.8	7.1	7.1	1.7	6	-	-	-	-	-	-	-	-	-			
											4.3	0.1	48	26.7	26.7	7.9	7.9	24.0	24.1	61.2	61.1	4.3	4.3	3.8	7	-	-	-	-	-	-	-	-				
					Middle	4.3	0.1	48	26.7	26.7	7.9	7.9	24.0	24.1	60.9	61.1	4.3	4.3	3.9	8	-	-	-	-	-	-	-	-	-								
						7.6	0.2	43	26.3	26.3	7.9	7.9	25.5	25.8	57.3	57.1	4.0	4.0	5.3	8	-	-	-	-	-	-	-	-									
						7.6	0.2	43	26.2	26.2	7.9	7.9	25.5	25.8	56.8	56.8	4.0	4.0	5.3	7	-	-	-	-	-	-	-	-									
					SR4A	Cloudy	Calm	18:29	8.1	Surface	1.0	0.4	284	27.0	27.0	8.1	8.1	22.0	22.0	96.3	96.2	6.8	6.8	3.1	6	-	-	-	817193	807803	-	-	-	-			
											1.0	0.4	266	27.0	27.0	8.1	8.1	22.0	22.0	96.0	96.0	6.8	6.8	3.1	7	-	-	-	-	-	-	-					
											4.1	0.2	281	25.4	25.4	7.8	7.8	27.6	27.6	52.6	52.7	3.7	3.7	11.1	6	-	-	-	-	-	-						
Middle	4.1	0.2	285	25.4						25.4	7.8	7.8	27.6	27.6	52.8	52.7	3.7	3.7	11.2	6	-	-	-	-	-	-	-										
	7.1	0.2	286	25.7						25.7	7.8	7.8	27.5	27.5	61.4	61.9	4.3	4.3	13.1	6	-	-	-	-	-	-											
	7.1	0.2	288	25.8						25.8	7.8	7.8	27.5	27.5	62.3	62.3	4.4	4.4	13.8	6	-	-	-	-	-	-											
SR5A	Cloudy	Calm	18:45	5.1						Surface	1.0	0.0	232	27.9	27.9	8.2	8.2	20.5	20.5	104.6	104.6	7.3	7.3	3.5	6	-	-	-	816569	810691</							

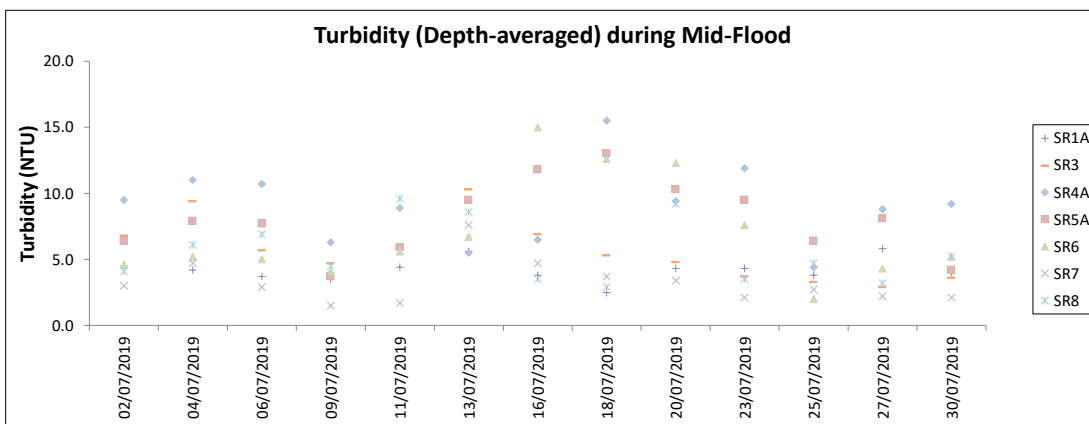
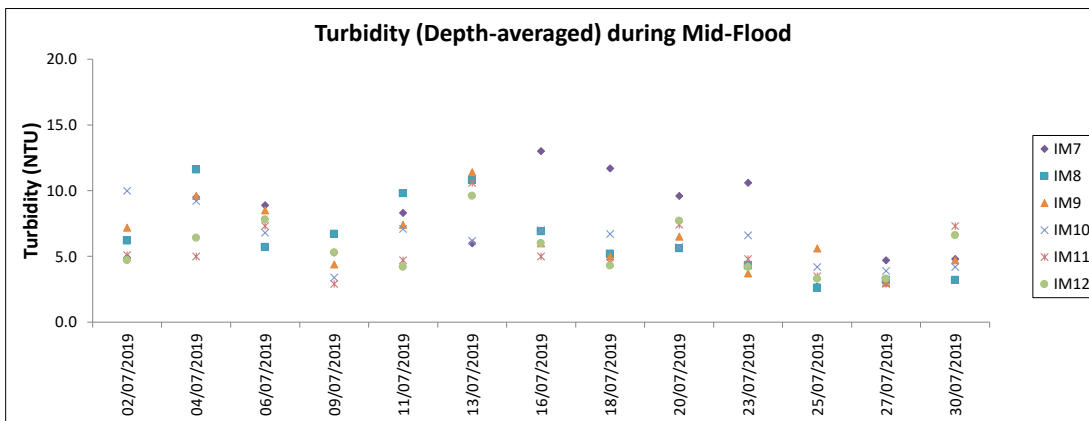
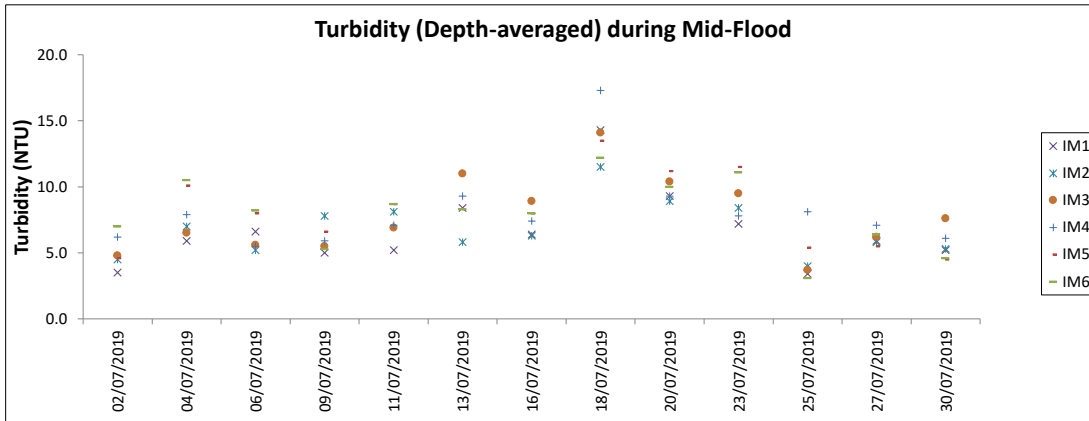
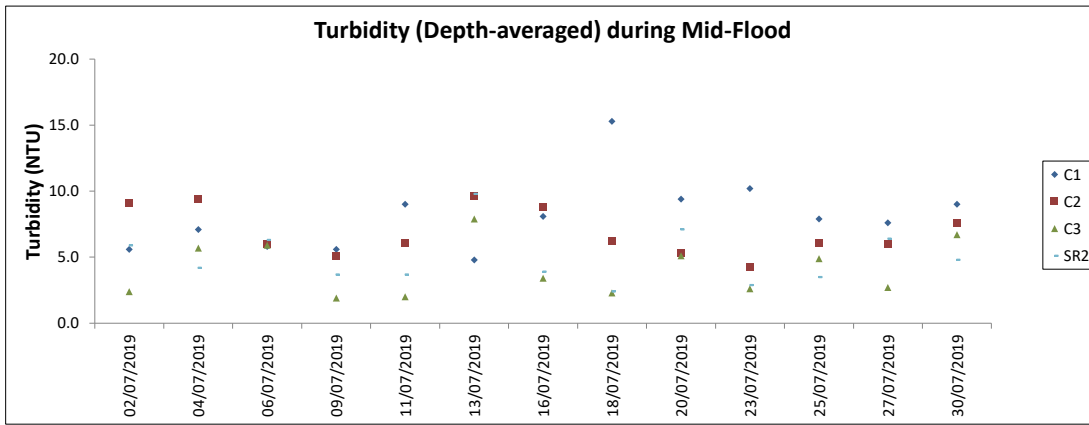




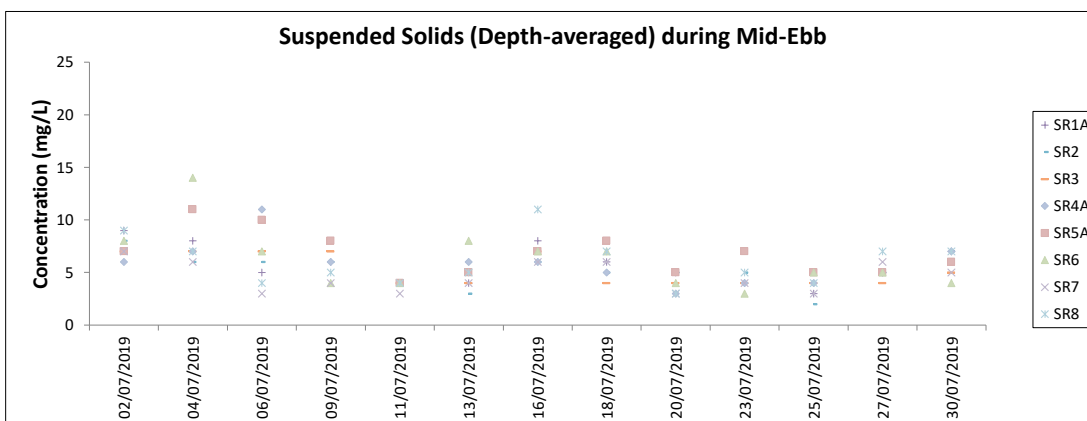
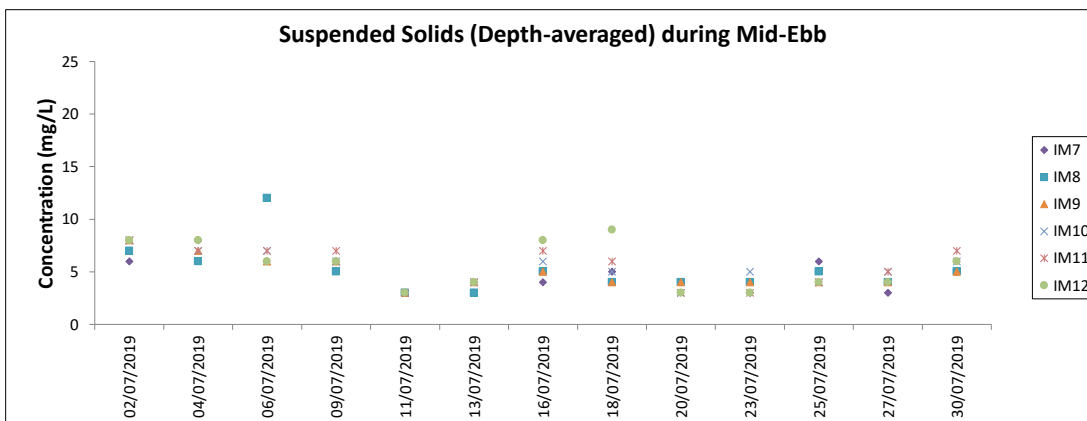
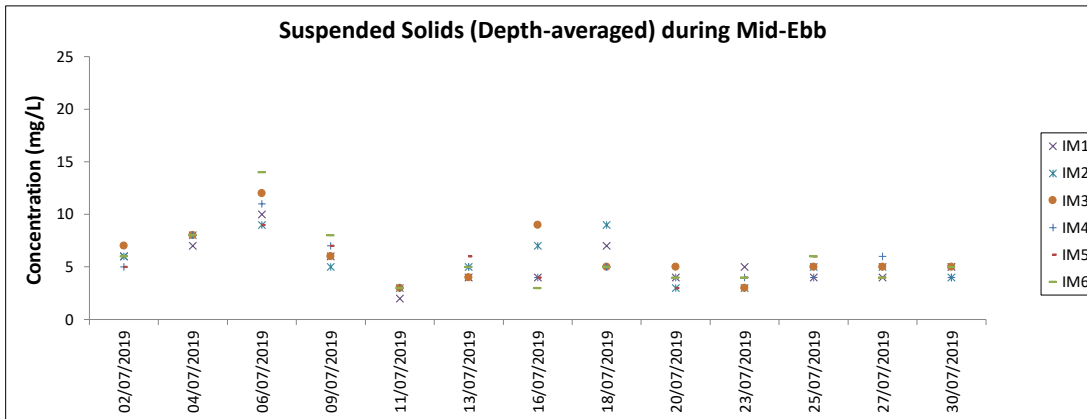
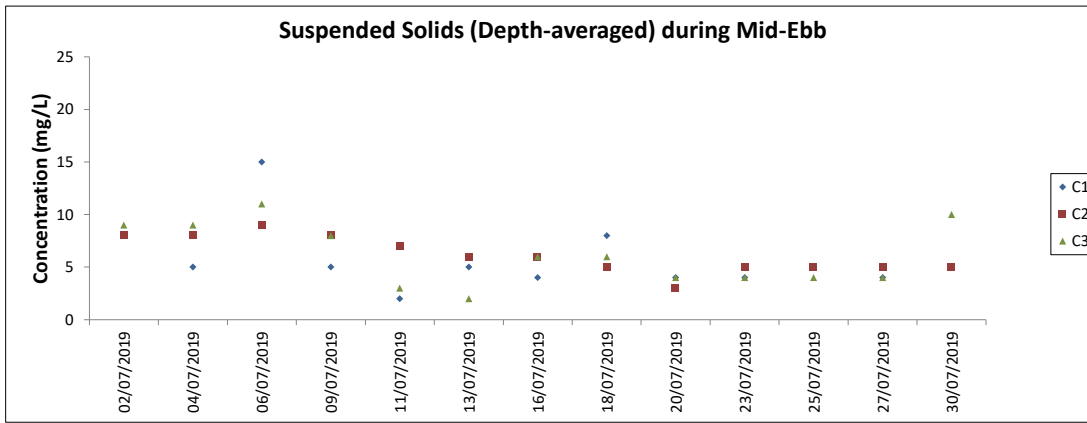




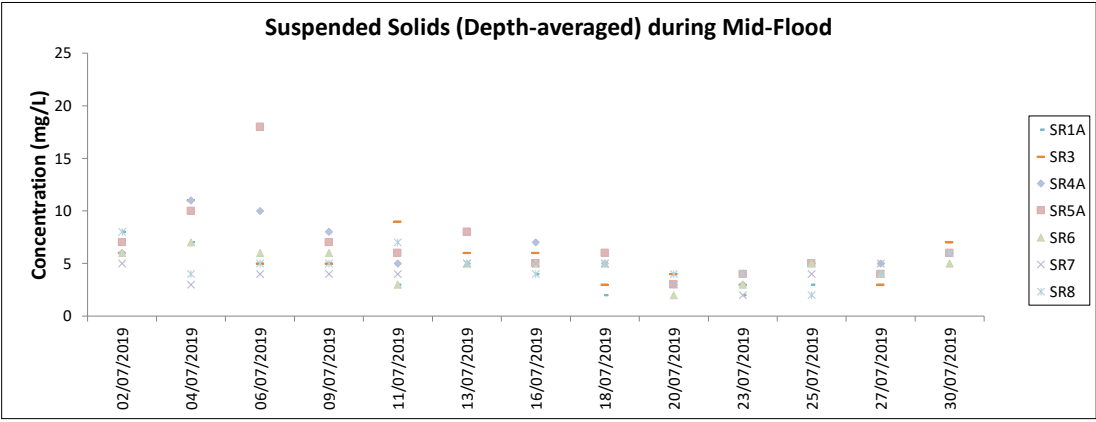
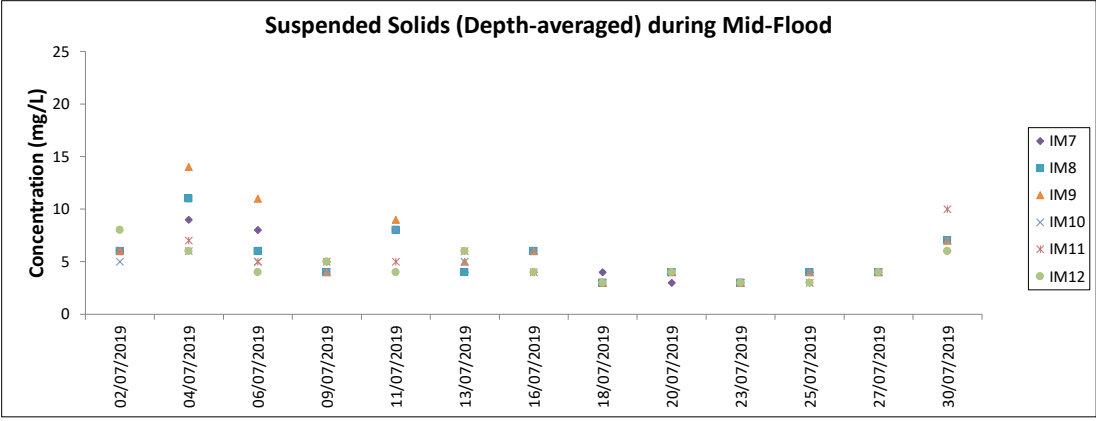
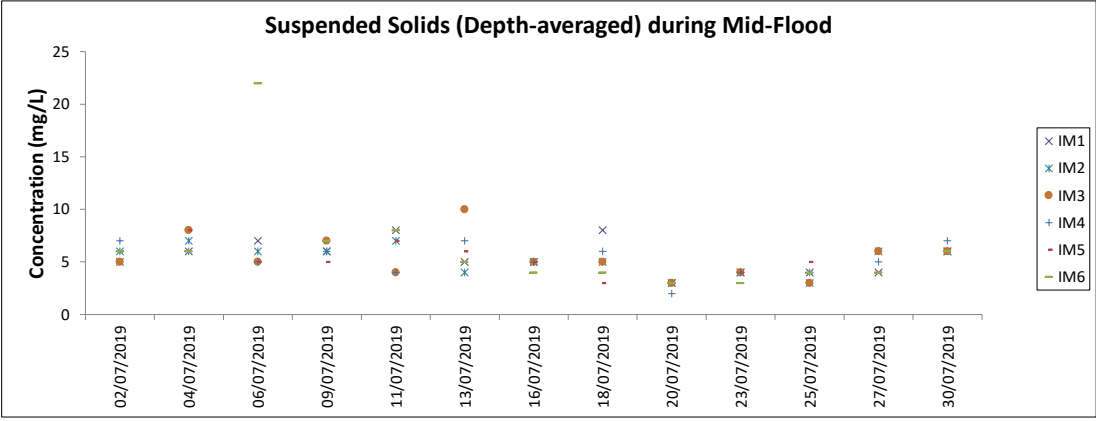
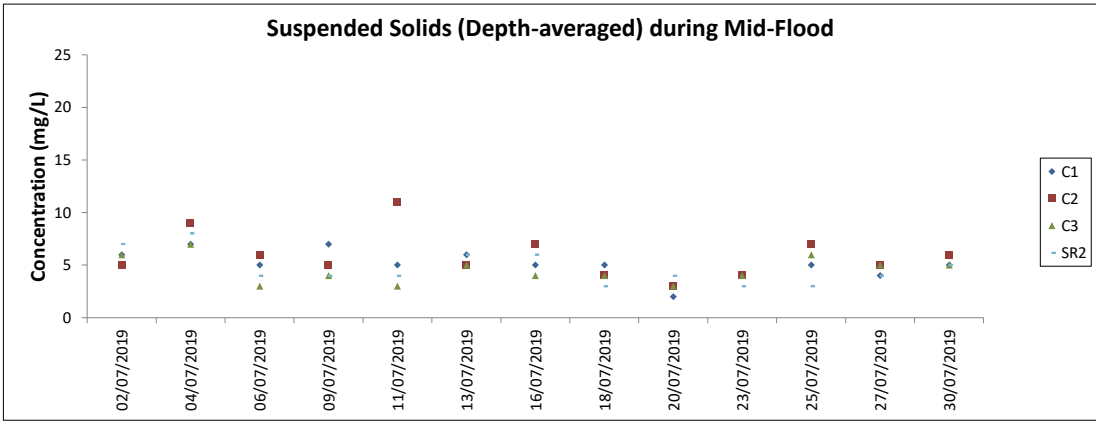
Note: The Action and Limit Level of turbidity can be referred to Table 4.2 of the monthly EM&A report.



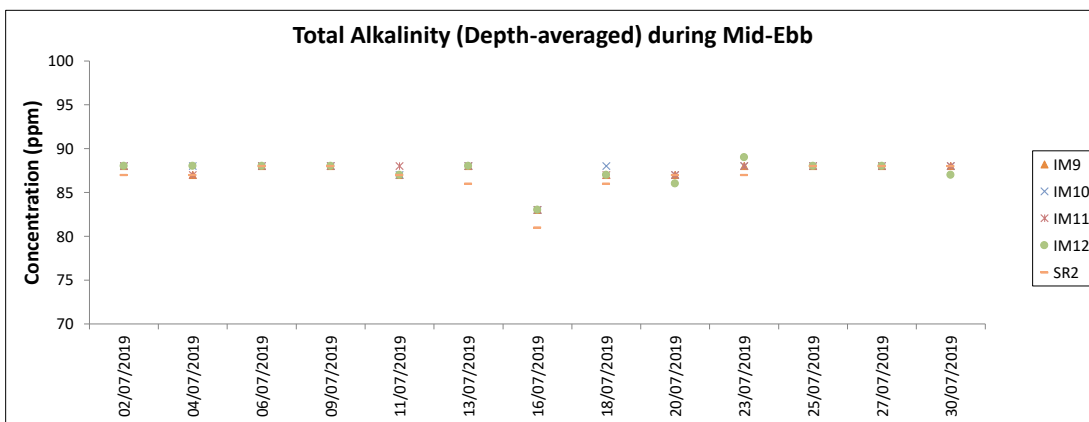
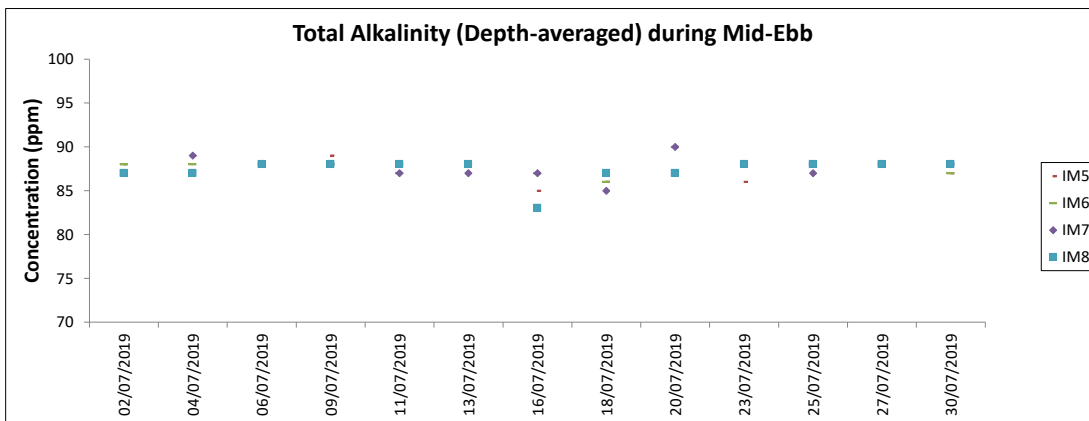
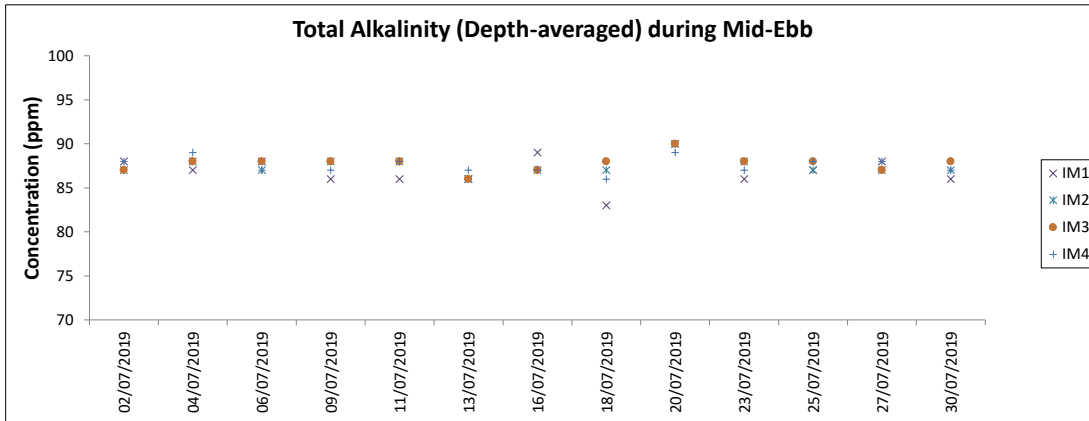
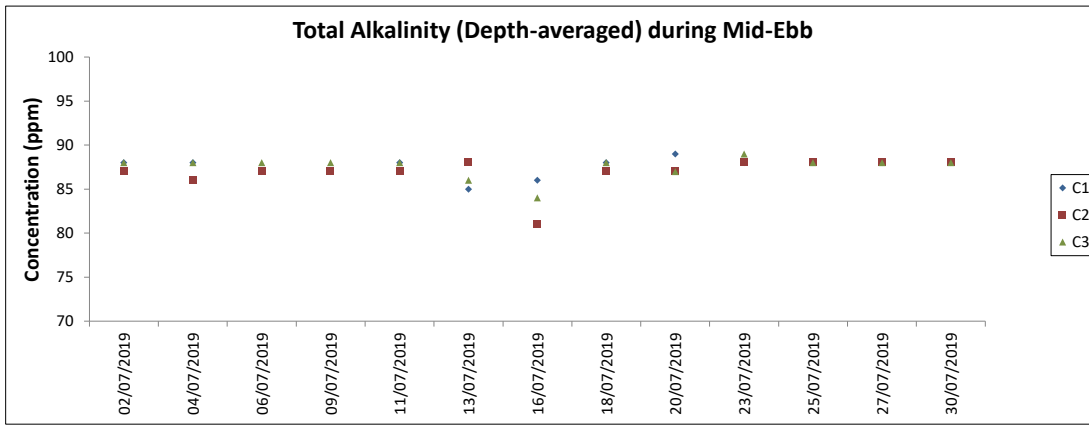
Note: The Action and Limit Level of turbidity can be referred to Table 4.2 of the monthly EM&A report.



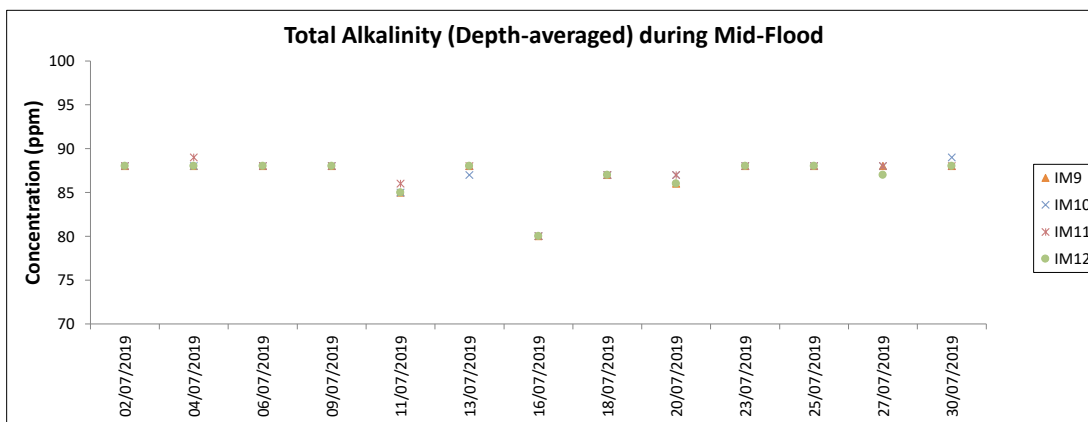
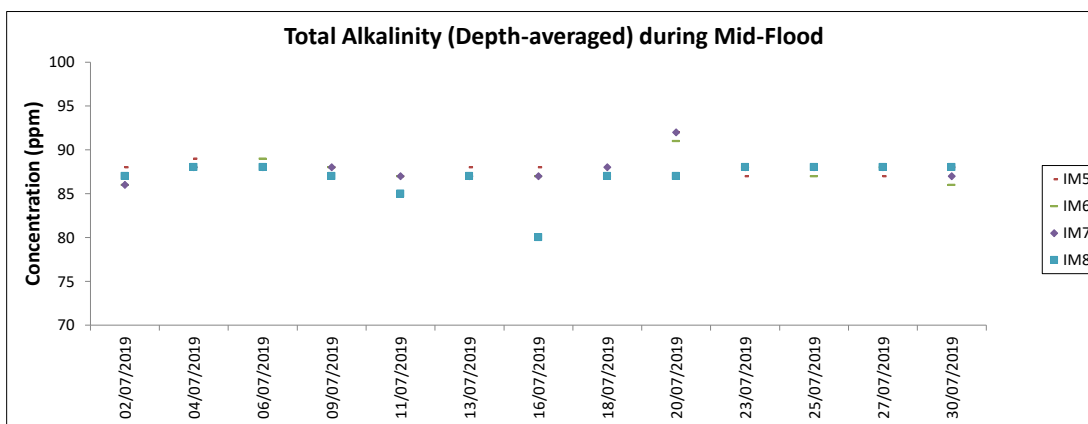
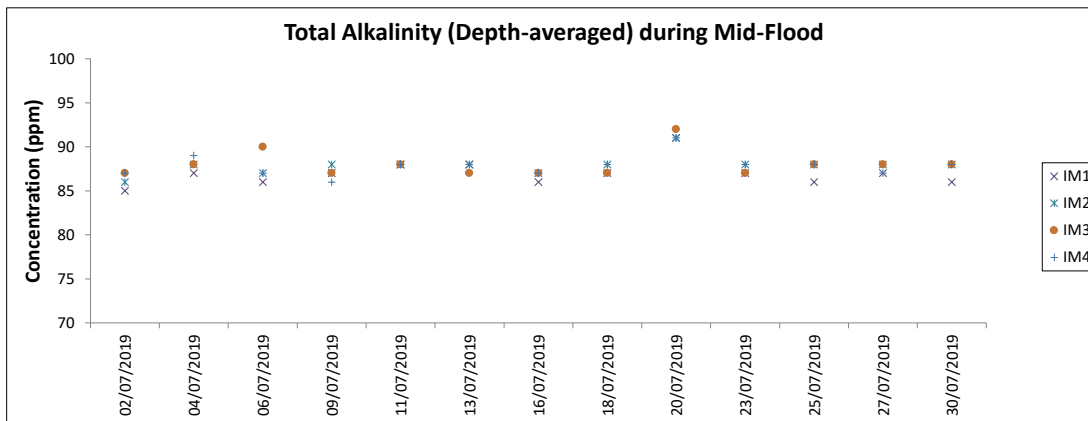
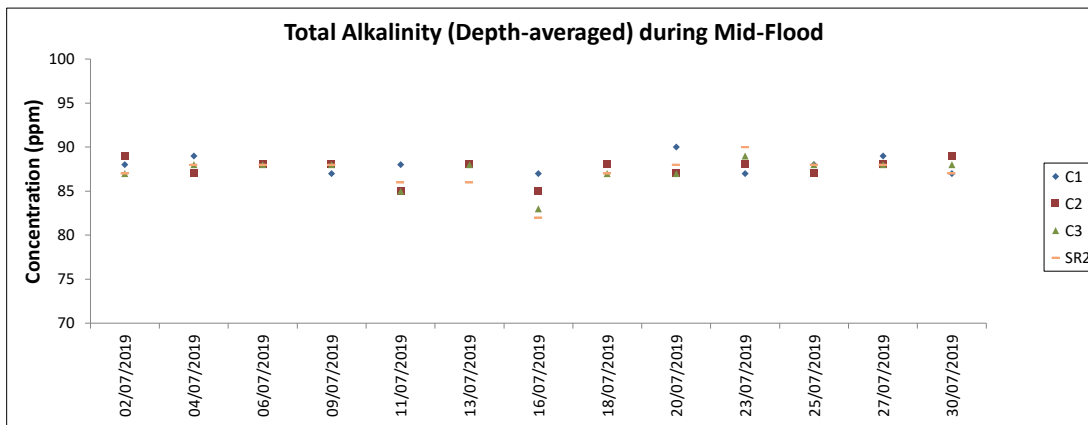
Note: The Action and Limit Level of suspended solids can be referred to Table 4.2 of the monthly EM&A report.



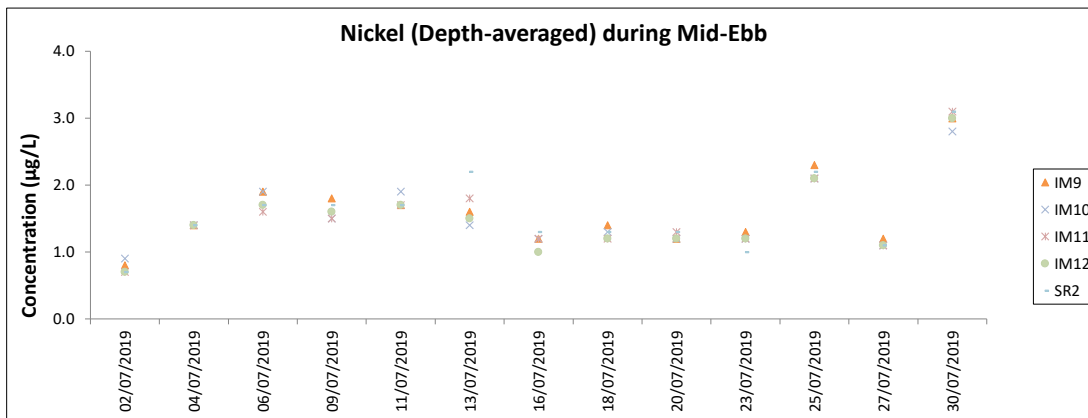
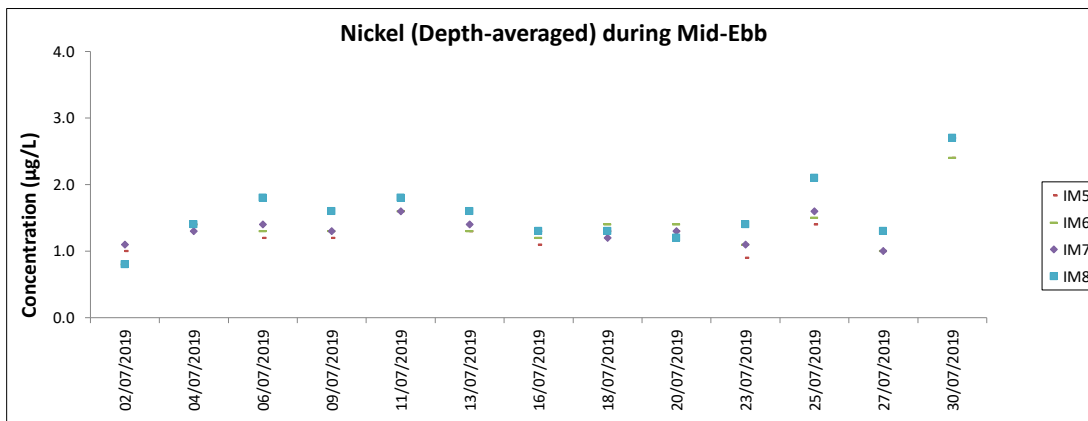
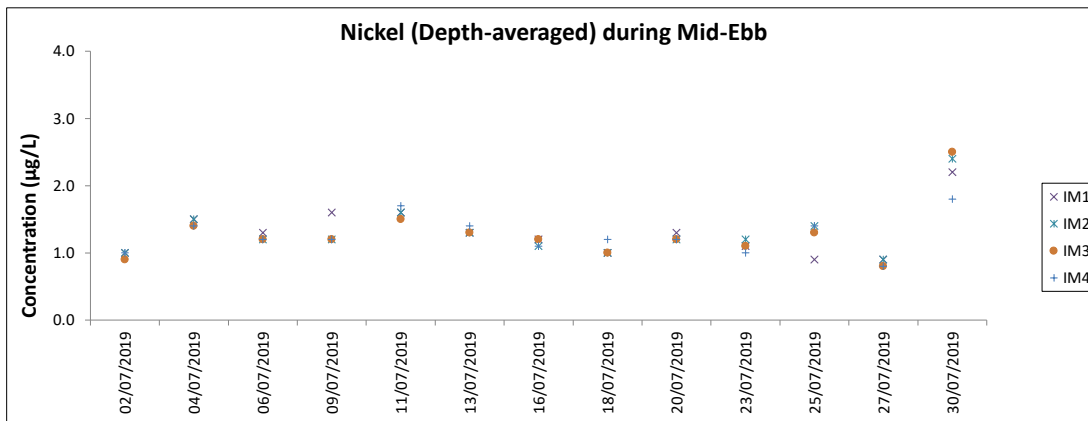
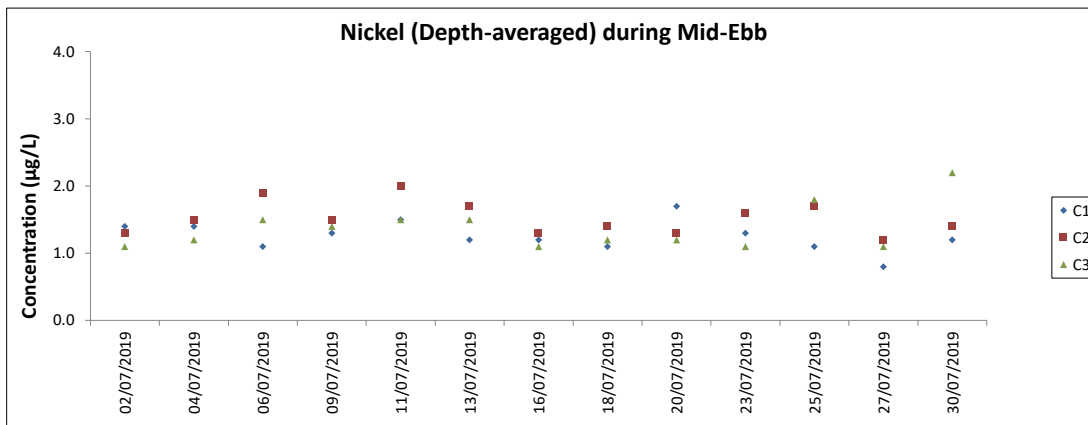
Note: The Action and Limit Level of suspended solids can be referred to Table 4.2 of the monthly EM&A report.



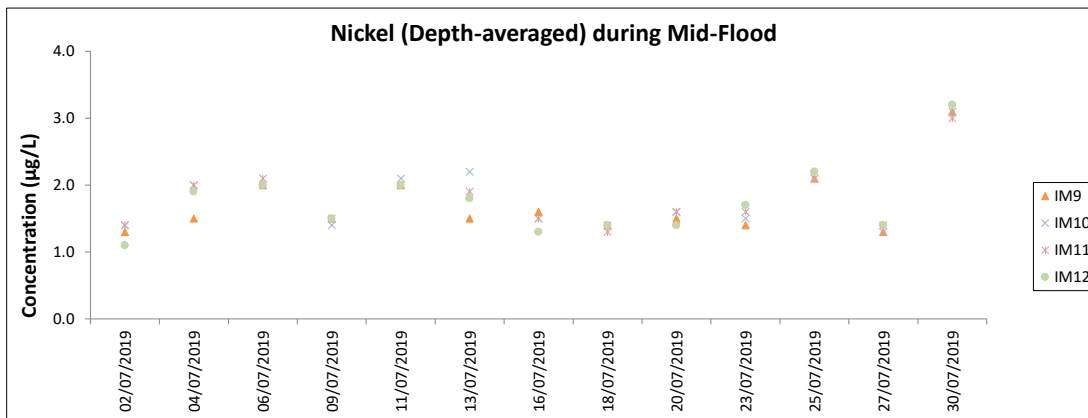
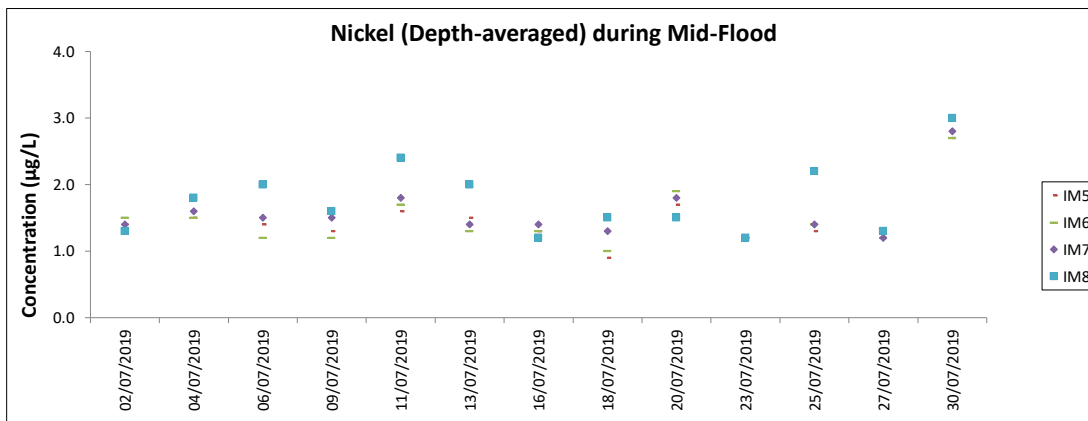
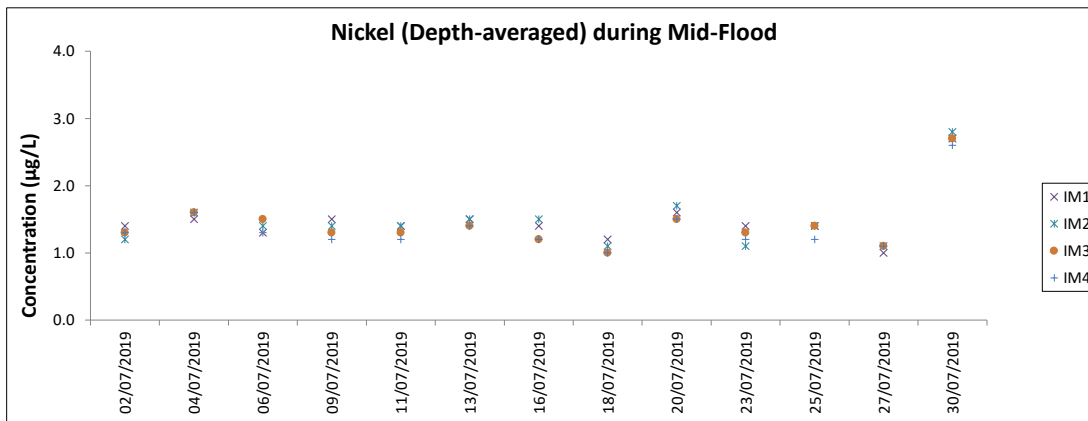
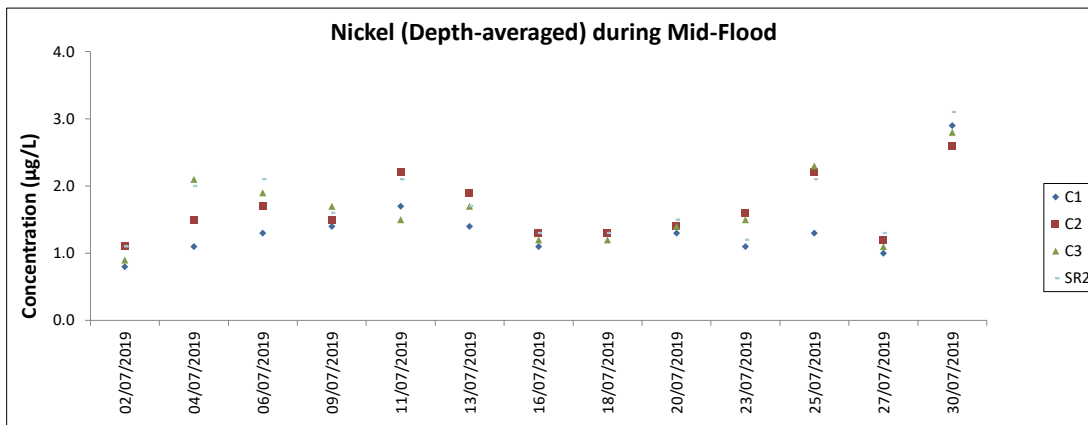
Note: The Action and Limit Level of total alkalinity can be referred to Table 4.2 of the monthly EM&A report.



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 were 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 Results

CWD Small Vessel Line-transect Survey

Survey Effort Data

DATE	AREA	BEAU	KM SEARCHED	SEASON	VESSEL	TYPE	P/S
3-May-19	NEL	2	9.550	SPRING	32166	3RS ET	P
3-May-19	NEL	3	27.830	SPRING	32166	3RS ET	P
3-May-19	NEL	2	5.120	SPRING	32166	3RS ET	S
3-May-19	NEL	3	5.300	SPRING	32166	3RS ET	S
8-May-19	AW	3	2.330	SPRING	32166	3RS ET	P
8-May-19	AW	4	2.340	SPRING	32166	3RS ET	P
8-May-19	WL	2	8.310	SPRING	32166	3RS ET	P
8-May-19	WL	3	5.280	SPRING	32166	3RS ET	P
8-May-19	WL	4	7.050	SPRING	32166	3RS ET	P
8-May-19	WL	2	5.150	SPRING	32166	3RS ET	S
8-May-19	WL	3	2.580	SPRING	32166	3RS ET	S
8-May-19	WL	4	3.130	SPRING	32166	3RS ET	S
9-May-19	NEL	1	2.300	SPRING	32166	3RS ET	P
9-May-19	NEL	2	32.170	SPRING	32166	3RS ET	P
9-May-19	NEL	3	3.160	SPRING	32166	3RS ET	P
9-May-19	NEL	1	1.000	SPRING	32166	3RS ET	S
9-May-19	NEL	2	8.970	SPRING	32166	3RS ET	S
10-May-19	SWL	2	6.600	SPRING	32166	3RS ET	P
10-May-19	SWL	3	48.980	SPRING	32166	3RS ET	P
10-May-19	SWL	2	2.120	SPRING	32166	3RS ET	S
10-May-19	SWL	3	13.300	SPRING	32166	3RS ET	S
14-May-19	AW	2	4.730	SPRING	32166	3RS ET	P
14-May-19	WL	2	12.245	SPRING	32166	3RS ET	P
14-May-19	WL	3	6.915	SPRING	32166	3RS ET	P
14-May-19	WL	2	5.880	SPRING	32166	3RS ET	S
14-May-19	WL	3	4.048	SPRING	32166	3RS ET	S
15-May-19	NWL	2	36.790	SPRING	32166	3RS ET	P
15-May-19	NWL	3	26.720	SPRING	32166	3RS ET	P
15-May-19	NWL	2	7.310	SPRING	32166	3RS ET	S
15-May-19	NWL	3	4.710	SPRING	32166	3RS ET	S
16-May-19	NWL	2	4.080	SPRING	32166	3RS ET	P
16-May-19	NWL	3	44.920	SPRING	32166	3RS ET	P
16-May-19	NWL	4	13.900	SPRING	32166	3RS ET	P
16-May-19	NWL	3	11.800	SPRING	32166	3RS ET	S
16-May-19	NWL	4	0.300	SPRING	32166	3RS ET	S
27-May-19	SWL	2	29.957	SPRING	32166	3RS ET	P
27-May-19	SWL	3	24.860	SPRING	32166	3RS ET	P
27-May-19	SWL	2	12.763	SPRING	32166	3RS ET	S
27-May-19	SWL	3	1.400	SPRING	32166	3RS ET	S
4-Jun-19	NEL	2	27.350	SUMMER	32166	3RS ET	P
4-Jun-19	NEL	3	7.700	SUMMER	32166	3RS ET	P
4-Jun-19	NEL	4	2.600	SUMMER	32166	3RS ET	P
4-Jun-19	NEL	2	7.050	SUMMER	32166	3RS ET	S
4-Jun-19	NEL	3	3.200	SUMMER	32166	3RS ET	S
6-Jun-19	AW	2	4.730	SUMMER	32166	3RS ET	P
6-Jun-19	WL	2	7.467	SUMMER	32166	3RS ET	P
6-Jun-19	WL	3	12.575	SUMMER	32166	3RS ET	P

DATE	AREA	BEAU	KM SEARCHED	SEASON	VESSEL	TYPE	P/S
6-Jun-19	WL	2	1.850	SUMMER	32166	3RS ET	S
6-Jun-19	WL	3	7.388	SUMMER	32166	3RS ET	S
6-Jun-19	WL	4	0.570	SUMMER	32166	3RS ET	S
11-Jun-19	NEL	1	1.600	SUMMER	32166	3RS ET	P
11-Jun-19	NEL	2	34.960	SUMMER	32166	3RS ET	P
11-Jun-19	NEL	1	1.200	SUMMER	32166	3RS ET	S
11-Jun-19	NEL	2	10.140	SUMMER	32166	3RS ET	S
17-Jun-19	SWL	3	10.690	SUMMER	32166	3RS ET	P
17-Jun-19	SWL	4	44.330	SUMMER	32166	3RS ET	P
17-Jun-19	SWL	2	0.900	SUMMER	32166	3RS ET	S
17-Jun-19	SWL	3	2.800	SUMMER	32166	3RS ET	S
17-Jun-19	SWL	4	12.480	SUMMER	32166	3RS ET	S
18-Jun-19	SWL	2	51.312	SUMMER	32166	3RS ET	P
18-Jun-19	SWL	3	2.970	SUMMER	32166	3RS ET	P
18-Jun-19	SWL	2	10.560	SUMMER	32166	3RS ET	S
18-Jun-19	SWL	3	3.830	SUMMER	32166	3RS ET	S
19-Jun-19	NWL	1	7.700	SUMMER	32166	3RS ET	P
19-Jun-19	NWL	2	30.077	SUMMER	32166	3RS ET	P
19-Jun-19	NWL	3	24.682	SUMMER	32166	3RS ET	P
19-Jun-19	NWL	1	3.900	SUMMER	32166	3RS ET	S
19-Jun-19	NWL	2	6.050	SUMMER	32166	3RS ET	S
19-Jun-19	NWL	3	2.491	SUMMER	32166	3RS ET	S
26-Jun-19	AW	2	5.100	SUMMER	32166	3RS ET	P
26-Jun-19	WL	2	18.167	SUMMER	32166	3RS ET	P
26-Jun-19	WL	3	2.710	SUMMER	32166	3RS ET	P
26-Jun-19	WL	2	9.143	SUMMER	32166	3RS ET	S
26-Jun-19	WL	3	1.810	SUMMER	32166	3RS ET	S
27-Jun-19	NWL	2	4.700	SUMMER	32166	3RS ET	P
27-Jun-19	NWL	3	58.800	SUMMER	32166	3RS ET	P
27-Jun-19	NWL	2	2.200	SUMMER	32166	3RS ET	S
27-Jun-19	NWL	3	9.600	SUMMER	32166	3RS ET	S
8-Jul-19	NEL	2	6.410	SUMMER	32166	3RS ET	P
8-Jul-19	NEL	3	27.530	SUMMER	32166	3RS ET	P
8-Jul-19	NEL	4	3.400	SUMMER	32166	3RS ET	P
8-Jul-19	NEL	2	2.960	SUMMER	32166	3RS ET	S
8-Jul-19	NEL	3	7.500	SUMMER	32166	3RS ET	S
9-Jul-19	NEL	2	4.100	SUMMER	32166	3RS ET	P
9-Jul-19	NEL	3	26.300	SUMMER	32166	3RS ET	P
9-Jul-19	NEL	4	6.700	SUMMER	32166	3RS ET	P
9-Jul-19	NEL	2	2.000	SUMMER	32166	3RS ET	S
9-Jul-19	NEL	3	7.500	SUMMER	32166	3RS ET	S
9-Jul-19	NEL	4	0.900	SUMMER	32166	3RS ET	S
16-Jul-19	AW	1	4.980	SUMMER	32166	3RS ET	P
16-Jul-19	WL	1	5.410	SUMMER	32166	3RS ET	P
16-Jul-19	WL	2	5.206	SUMMER	32166	3RS ET	P
16-Jul-19	WL	3	7.009	SUMMER	32166	3RS ET	P
16-Jul-19	WL	4	1.137	SUMMER	32166	3RS ET	P
16-Jul-19	WL	1	1.570	SUMMER	32166	3RS ET	S
16-Jul-19	WL	2	2.237	SUMMER	32166	3RS ET	S

DATE	AREA	BEAU	KM SEARCHED	SEASON	VESSEL	TYPE	P/S
16-Jul-19	WL	3	4.340	SUMMER	32166	3RS ET	S
16-Jul-19	WL	4	0.223	SUMMER	32166	3RS ET	S
17-Jul-19	SWL	2	39.559	SUMMER	32166	3RS ET	P
17-Jul-19	SWL	3	11.290	SUMMER	32166	3RS ET	P
17-Jul-19	SWL	1	0.930	SUMMER	32166	3RS ET	S
17-Jul-19	SWL	2	10.694	SUMMER	32166	3RS ET	S
17-Jul-19	SWL	3	4.140	SUMMER	32166	3RS ET	S
18-Jul-19	SWL	1	1.882	SUMMER	32166	3RS ET	P
18-Jul-19	SWL	2	40.279	SUMMER	32166	3RS ET	P
18-Jul-19	SWL	3	13.740	SUMMER	32166	3RS ET	P
18-Jul-19	SWL	1	0.398	SUMMER	32166	3RS ET	S
18-Jul-19	SWL	2	10.003	SUMMER	32166	3RS ET	S
18-Jul-19	SWL	3	3.490	SUMMER	32166	3RS ET	S
22-Jul-19	NWL	1	8.700	SUMMER	32166	3RS ET	P
22-Jul-19	NWL	2	53.140	SUMMER	32166	3RS ET	P
22-Jul-19	NWL	3	0.800	SUMMER	32166	3RS ET	P
22-Jul-19	NWL	1	1.100	SUMMER	32166	3RS ET	S
22-Jul-19	NWL	2	9.860	SUMMER	32166	3RS ET	S
23-Jul-19	AW	2	4.840	SUMMER	32166	3RS ET	P
23-Jul-19	WL	2	14.693	SUMMER	32166	3RS ET	P
23-Jul-19	WL	3	3.892	SUMMER	32166	3RS ET	P
23-Jul-19	WL	2	5.815	SUMMER	32166	3RS ET	S
23-Jul-19	WL	3	3.119	SUMMER	32166	3RS ET	S
24-Jul-19	NWL	2	38.660	SUMMER	32166	3RS ET	P
24-Jul-19	NWL	3	23.760	SUMMER	32166	3RS ET	P
24-Jul-19	NWL	2	6.300	SUMMER	32166	3RS ET	S
24-Jul-19	NWL	3	5.780	SUMMER	32166	3RS ET	S

Notes: CWD monitoring survey data of the two preceding survey months (i.e. May 2019 and June 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
8-May-19	1	1120	CWD	12	WL	3	72	ON	3RS ET	22.2321	113.8295	SPRING	NONE	P
14-May-19	1	1038	CWD	2	WL	2	169	ON	3RS ET	22.2606	113.8545	SPRING	NONE	S
14-May-19	2	1102	CWD	7	WL	2	505	ON	3RS ET	22.2496	113.8407	SPRING	NONE	P
14-May-19	3	1229	CWD	4	WL	3	171	ON	3RS ET	22.2012	113.8245	SPRING	NONE	S
14-May-19	4	1249	CWD	8	WL	3	126	ON	3RS ET	22.1962	113.8363	SPRING	NONE	P
14-May-19	5	1318	CWD	2	WL	2	396	ON	3RS ET	22.1926	113.8423	SPRING	NONE	S
15-May-19	1	0955	CWD	2	NWL	2	305	ON	3RS ET	22.3681	113.8700	SPRING	NONE	P
15-May-19	2	1054	CWD	1	NWL	3	1539	ON	3RS ET	22.2727	113.8701	SPRING	NONE	P
15-May-19	3	1348	CWD	4	NWL	2	6	ON	3RS ET	22.4008	113.8978	SPRING	NONE	P
27-May-19	1	1210	FP	2	SWL	2	171	ON	3RS ET	22.1536	113.9084	SPRING	NONE	P
27-May-19	2	1316	FP	1	SWL	2	4	ON	3RS ET	22.1584	113.8976	SPRING	NONE	P
27-May-19	3	1443	CWD	4	SWL	2	15	ON	3RS ET	22.1987	113.8692	SPRING	NONE	P
6-Jun-19	1	1052	CWD	3	WL	3	325	ON	3RS ET	22.2518	113.8337	SUMMER	NONE	S
6-Jun-19	2	1123	CWD	6	WL	2	214	ON	3RS ET	22.2445	113.8496	SUMMER	NONE	S
6-Jun-19	3	1221	CWD	2	WL	2	82	ON	3RS ET	22.2144	113.8319	SUMMER	NONE	P
18-Jun-19	1	1134	CWD	1	SWL	2	22	ON	3RS ET	22.2055	113.9224	SUMMER	NONE	S
18-Jun-19	2	1406	CWD	3	SWL	2	89	ON	3RS ET	22.2096	113.8827	SUMMER	NONE	S
18-Jun-19	3	1505	CWD	4	SWL	2	348	ON	3RS ET	22.1764	113.8690	SUMMER	NONE	P
18-Jun-19	4	1603	CWD	1	SWL	2	70	ON	3RS ET	22.1866	113.8494	SUMMER	NONE	P
18-Jun-19	5	1609	CWD	4	SWL	2	225	ON	3RS ET	22.1892	113.8496	SUMMER	PURSE SEINER	P
19-Jun-19	1	1131	CWD	5	NWL	2	70	ON	3RS ET	22.3867	113.8780	SUMMER	NONE	P
19-Jun-19	2	1323	CWD	1	NWL	3	119	ON	3RS ET	22.3999	113.8974	SUMMER	NONE	P
26-Jun-19	1	1052	CWD	7	WL	2	117	ON	3RS ET	22.2231	113.8350	SUMMER	NONE	P
26-Jun-19	2	1211	CWD	3	WL	3	664	ON	3RS ET	22.2054	113.8309	SUMMER	NONE	P
16-Jul-19	1	1034	CWD	5	WL	1	134	ON	3RS ET	22.2665	113.8595	SUMMER	NONE	S
16-Jul-19	2	1123	CWD	1	WL	3	40	ON	3RS ET	22.2411	113.8416	SUMMER	NONE	P
16-Jul-19	3	1133	CWD	2	WL	3	73	ON	3RS ET	22.2412	113.8312	SUMMER	NONE	P
16-Jul-19	4	1159	CWD	5	WL	2	54	ON	3RS ET	22.2277	113.8378	SUMMER	NONE	S
16-Jul-19	5	1229	CWD	11	WL	3	473	ON	3RS ET	22.2137	113.8294	SUMMER	NONE	P
16-Jul-19	6	1313	CWD	3	WL	3	114	ON	3RS ET	22.1953	113.8420	SUMMER	NONE	P
17-Jul-19	1	1123	CWD	1	SWL	2	565	ON	3RS ET	22.1952	113.9279	SUMMER	NONE	P
17-Jul-19	2	1148	CWD	6	SWL	2	41	ON	3RS ET	22.2008	113.9183	SUMMER	NONE	P

DATE	STG #	TIME	CWD/FP	GP SZ	AREA	BEAU	PSD	EFFORT	TYPE	DEC LAT	DEC LON	SEASON	BOAT ASSOC.	P/S
17-Jul-19	3	1244	CWD	4	SWL	2	289	ON	3RS ET	22.1714	113.9086	SUMMER	NONE	P
17-Jul-19	4	1258	CWD	10	SWL	2	24	ON	3RS ET	22.1751	113.9078	SUMMER	NONE	P
17-Jul-19	5	1326	CWD	4	SWL	2	371	ON	3RS ET	22.1927	113.9082	SUMMER	NONE	S
17-Jul-19	6	1339	CWD	3	SWL	2	143	ON	3RS ET	22.1977	113.9078	SUMMER	NONE	P
17-Jul-19	7	1355	CWD	1	SWL	2	35	ON	3RS ET	22.2089	113.8973	SUMMER	NONE	P
17-Jul-19	8	1446	CWD	5	SWL	2	88	ON	3RS ET	22.1830	113.8885	SUMMER	NONE	P
17-Jul-19	9	1519	CWD	2	SWL	3	23	ON	3RS ET	22.1913	113.8780	SUMMER	NONE	P
17-Jul-19	10	1552	CWD	6	SWL	3	97	ON	3RS ET	22.1784	113.8689	SUMMER	NONE	P
17-Jul-19	11	1645	CWD	3	SWL	3	233	ON	3RS ET	22.1922	113.8494	SUMMER	NONE	P
18-Jul-19	1	1220	CWD	8	SWL	2	435	ON	3RS ET	22.1798	113.9042	SUMMER	NONE	S
18-Jul-19	2	1238	CWD	3	SWL	2	16	ON	3RS ET	22.1894	113.9066	SUMMER	NONE	S
18-Jul-19	3	1315	CWD	11	SWL	2	24	ON	3RS ET	22.1780	113.8975	SUMMER	NONE	P
18-Jul-19	4	1409	CWD	9	SWL	2	403	ON	3RS ET	22.2013	113.8871	SUMMER	NONE	P
18-Jul-19	5	1514	CWD	2	SWL	2	31	ON	3RS ET	22.1785	113.8690	SUMMER	NONE	P
18-Jul-19	6	1527	CWD	2	SWL	2	68	ON	3RS ET	22.1850	113.8690	SUMMER	NONE	P
18-Jul-19	7	1542	CWD	1	SWL	2	462	ON	3RS ET	22.1978	113.8685	SUMMER	NONE	P
22-Jul-19	1	1035	CWD	1	NWL	2	131	ON	3RS ET	22.2771	113.8704	SUMMER	NONE	P
23-Jul-19	1	1031	CWD	7	WL	2	142	ON	3RS ET	22.2606	113.8539	SUMMER	NONE	P
23-Jul-19	2	1111	CWD	1	WL	2	85	ON	3RS ET	22.2447	113.8497	SUMMER	NONE	S
23-Jul-19	3	1126	CWD	4	WL	2	77	ON	3RS ET	22.2418	113.8423	SUMMER	NONE	P
23-Jul-19	4	1153	CWD	3	WL	2	1245	ON	3RS ET	22.2357	113.8252	SUMMER	NONE	S
23-Jul-19	5	1203	CWD	3	WL	2	107	ON	3RS ET	22.2325	113.8330	SUMMER	NONE	P
23-Jul-19	6	1230	CWD	3	WL	3	20	ON	3RS ET	22.2145	113.8282	SUMMER	NONE	P
23-Jul-19	7	1305	CWD	5	WL	2	123	ON	3RS ET	22.1962	113.8392	SUMMER	NONE	P
24-Jul-19	1	1129	CWD	2	NWL	2	217	ON	3RS ET	22.3800	113.8764	SUMMER	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. May 2019 and June 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 July 2019 encounter rates STG and ANI in the whole survey area (NEL, NWL, AW, WL, SWL):

A total of 431.916 km of survey effort was collected under Beaufort Sea State 3 or below with favourable visibility; total no. of 33 on-effort sightings and total number of 137 dolphins from on-effort sightings were collected under such condition. Calculation of the encounter rates in July 2019 are shown as below:

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

$$STG = \frac{33}{431.916} \times 100 = 7.64$$

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

$$ANI = \frac{137}{431.916} \times 100 = 31.72$$

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

A total of 1258.496 km of survey effort was collected under Beaufort Sea State 3 or below with favourable visibility; total no. of 55 on-effort sightings and total number of 223 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)









$$STG = \frac{55}{1258.496} \times 100 = 4.37$$

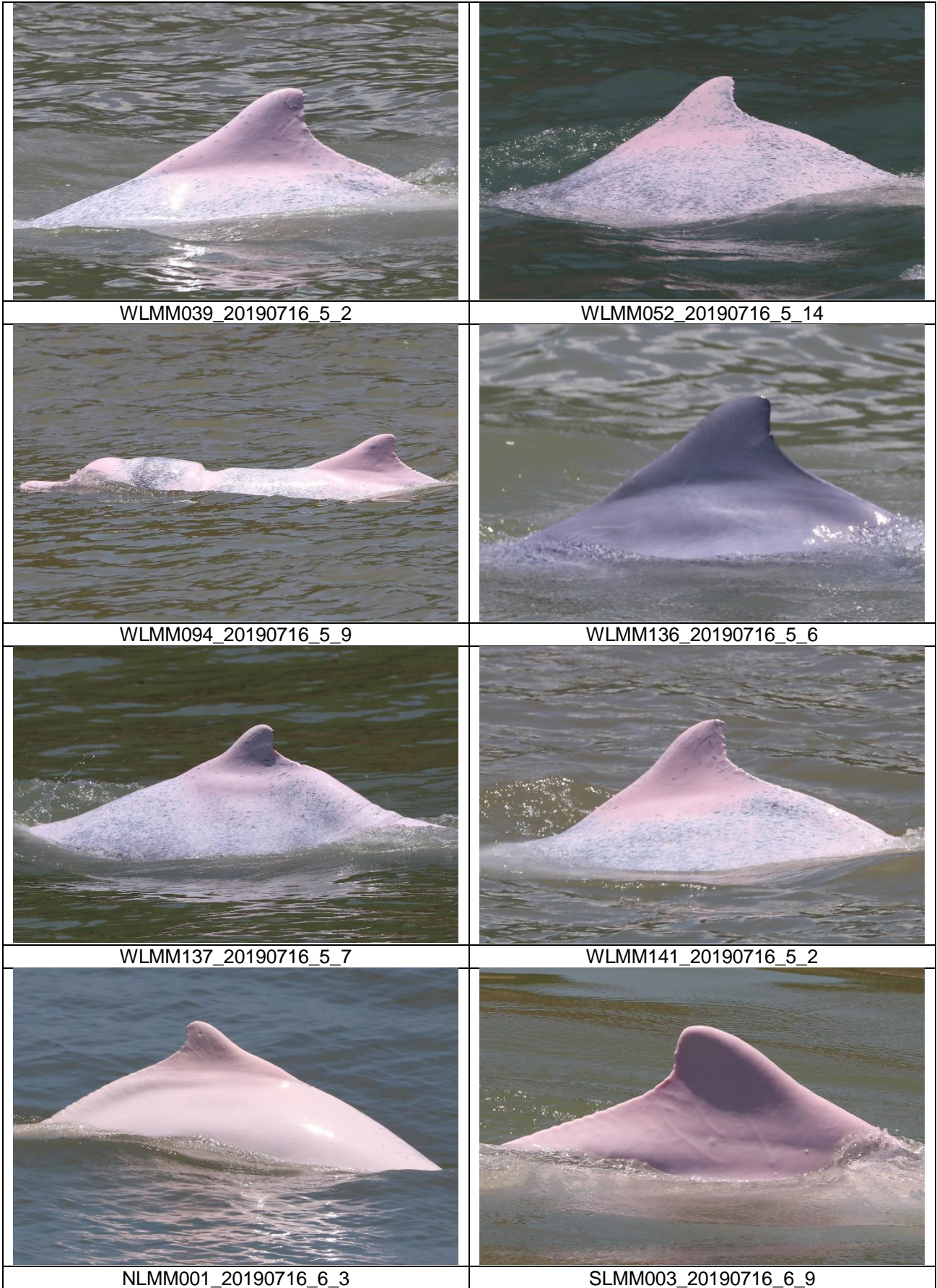
Running Quarterly Encounter Rate by Number of Dolphins (ANI)

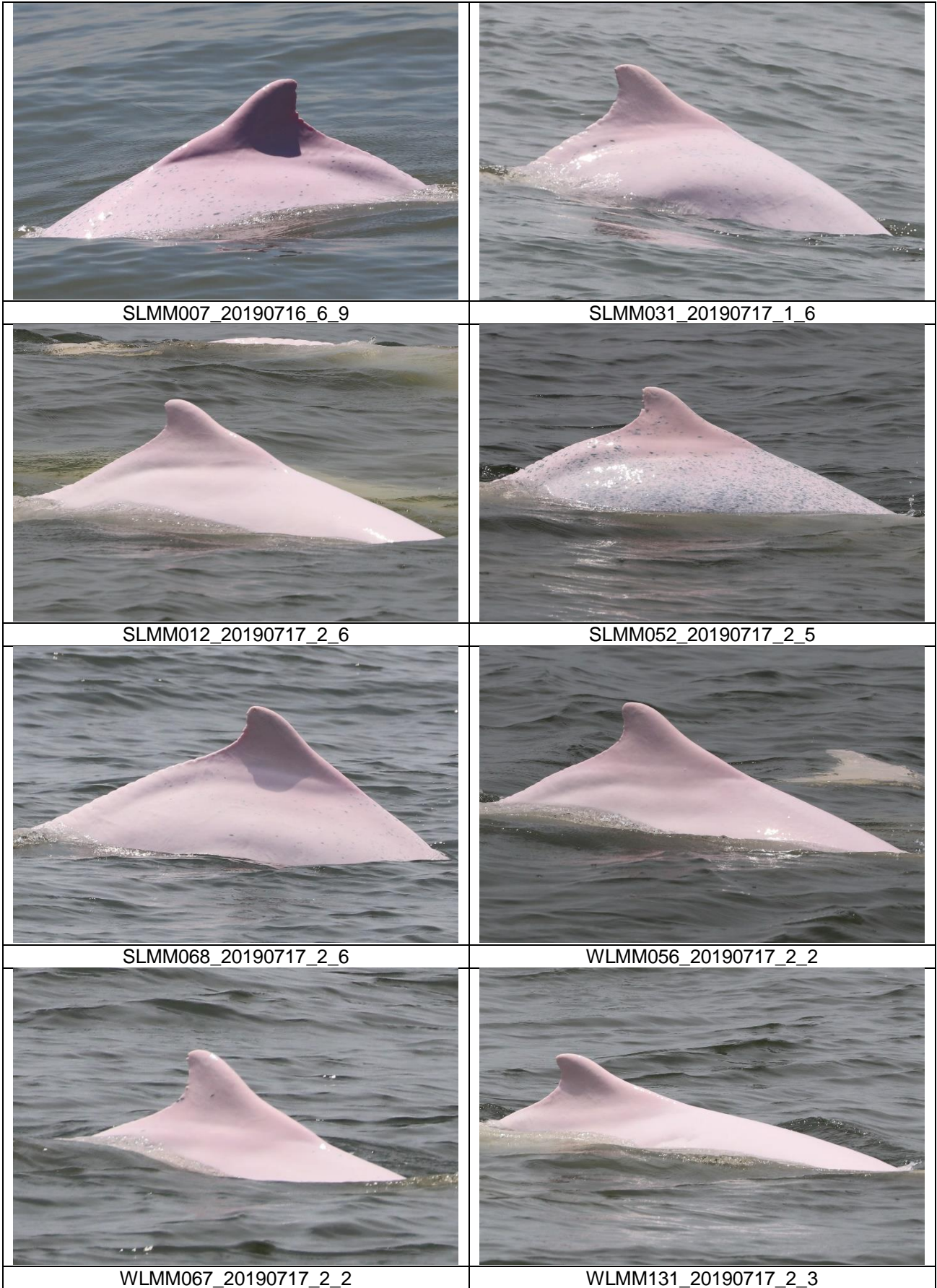
$$ANI = \frac{223}{1258.496} \times 100 = 17.72$$

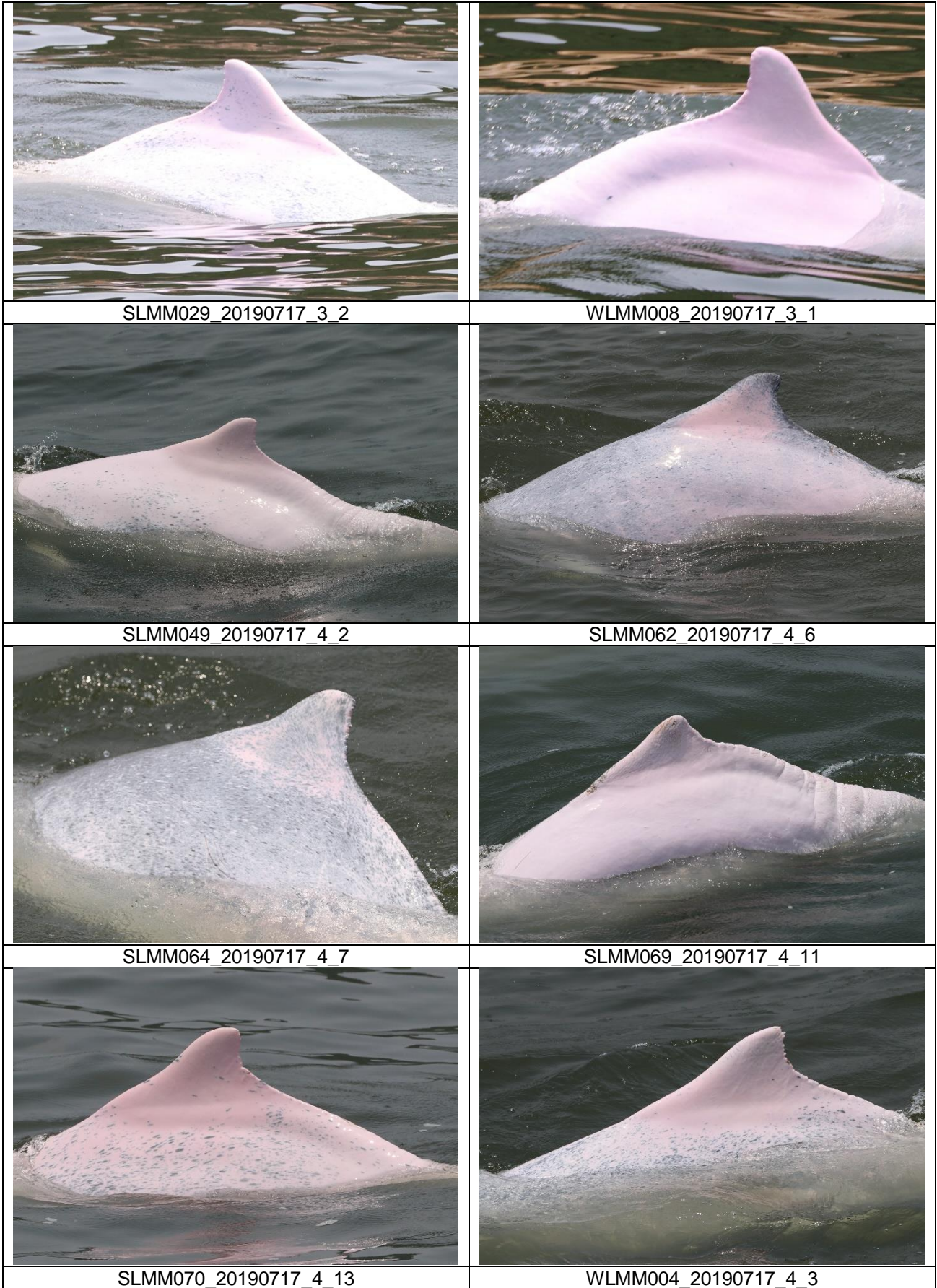
CWD Small Vessel Line-transect Survey

Photo Identification

	
WLMM043_20190716_1_1	WLMM083_20190716_1_4
	
WLMM122_20190716_1_3	WLMM049_20190716_3_8
	
WLMM081_20190716_4_5	WLMM082_20190716_4_9
	
WLMM139_20190716_4_10	WLMM140_20190716_4_5









WLMM069_20190717_4_10



WLMM085_20190717_4_6



WLMM132_20190717_4_7



SLMM037_20190717_5_2



SLMM052_20190717_5_5



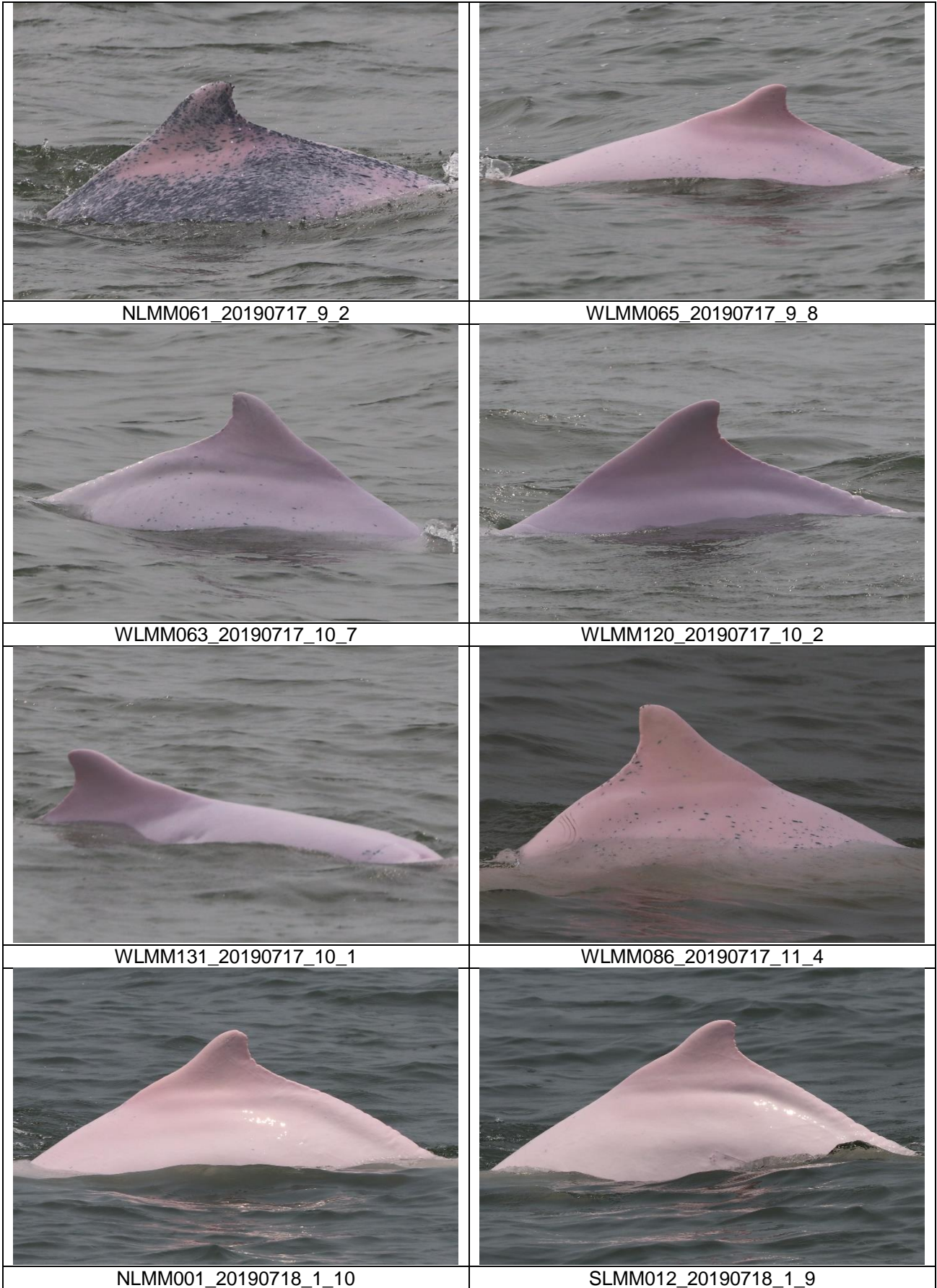
WLMM027_20190717_6_6

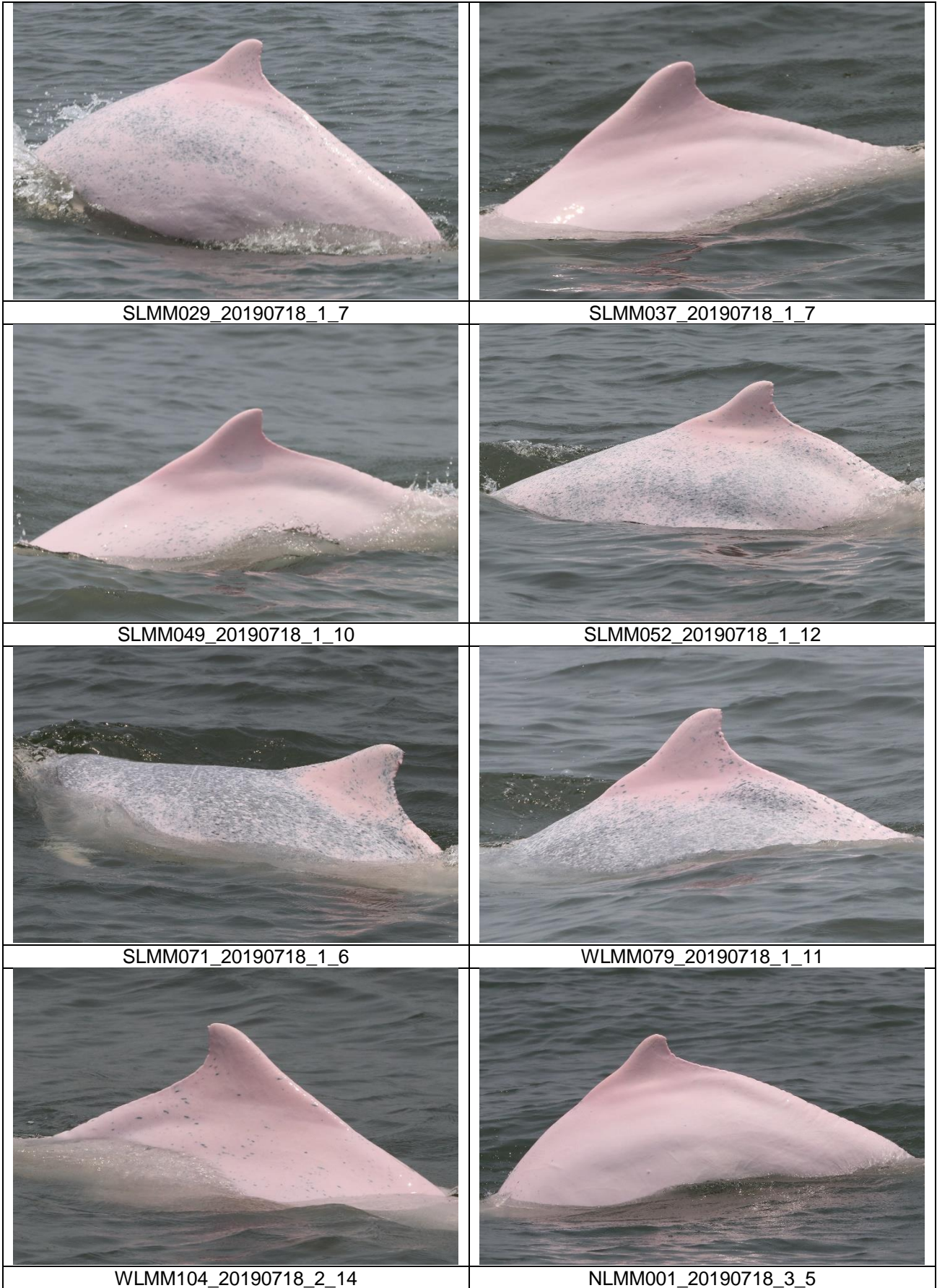


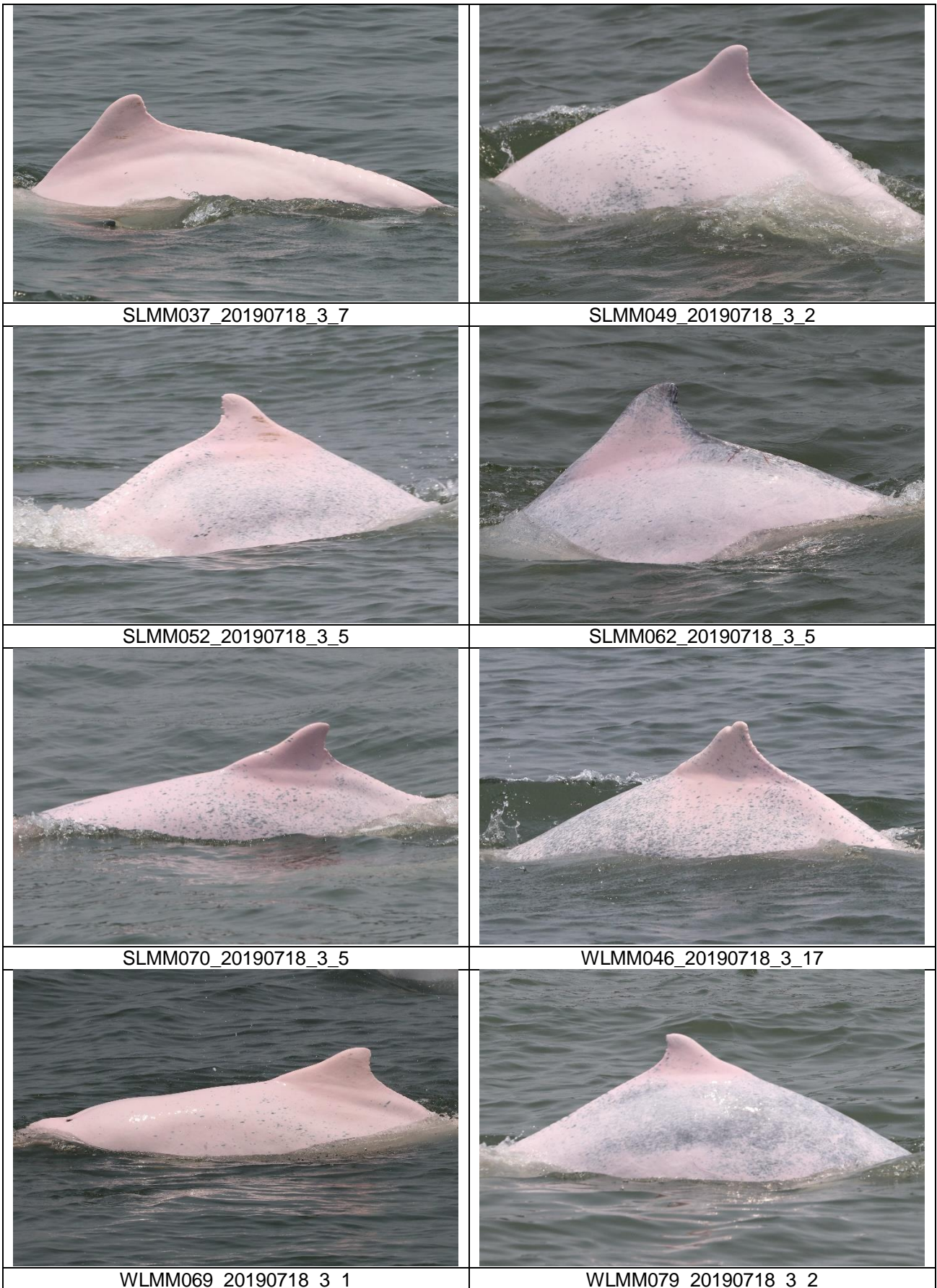
WLMM040_20190717_6_3

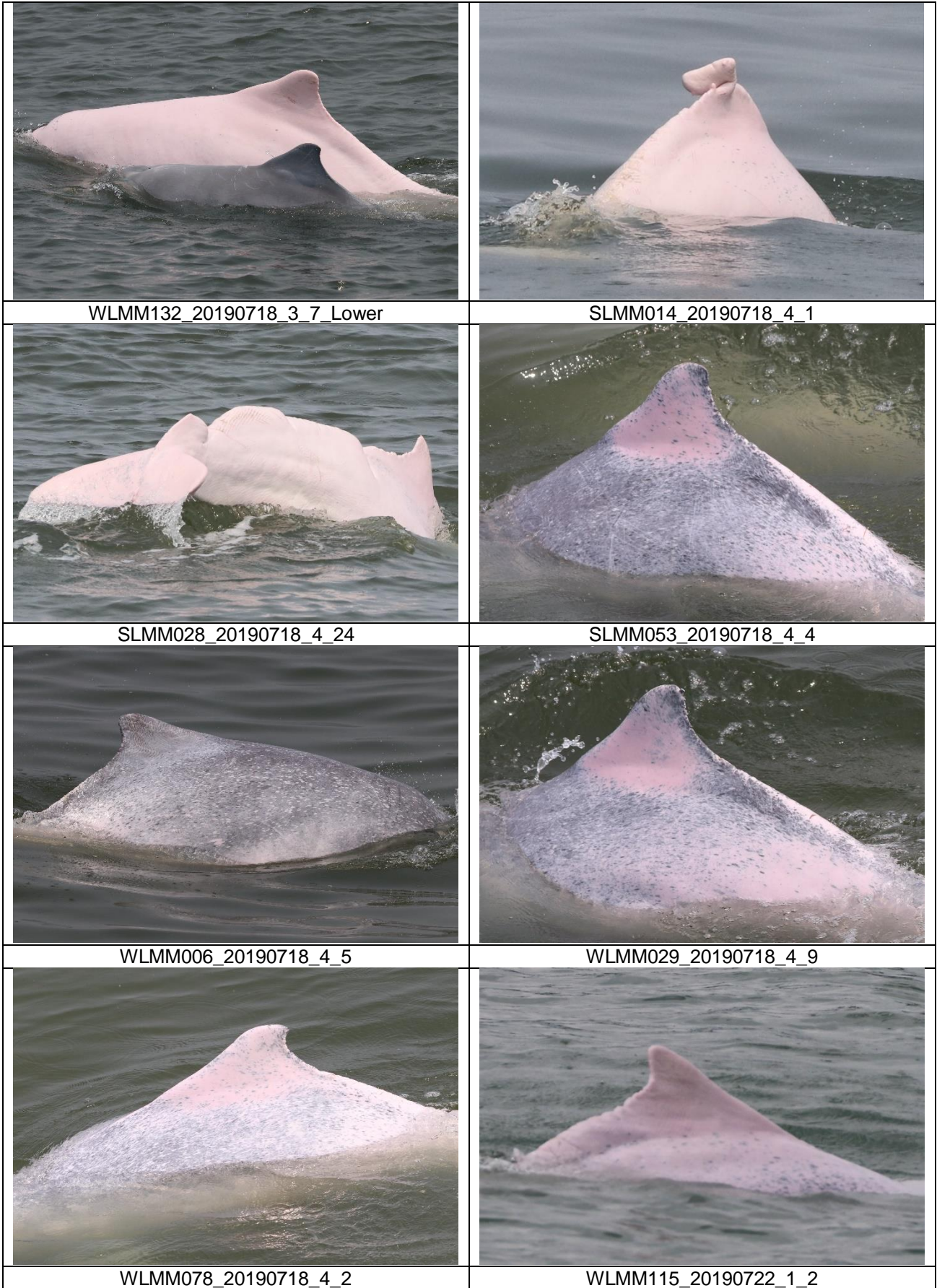


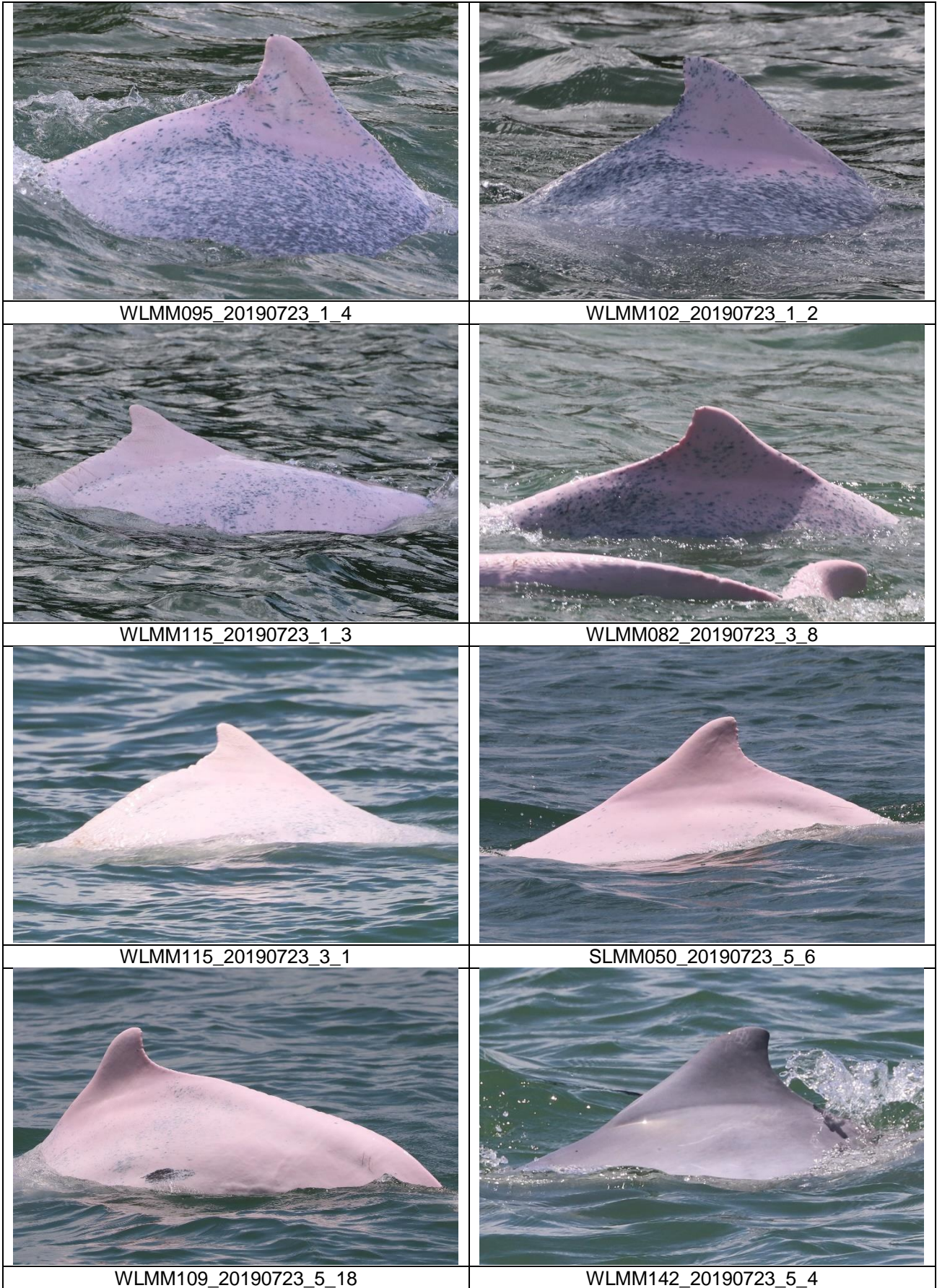
WLMM131_20190717_7_6

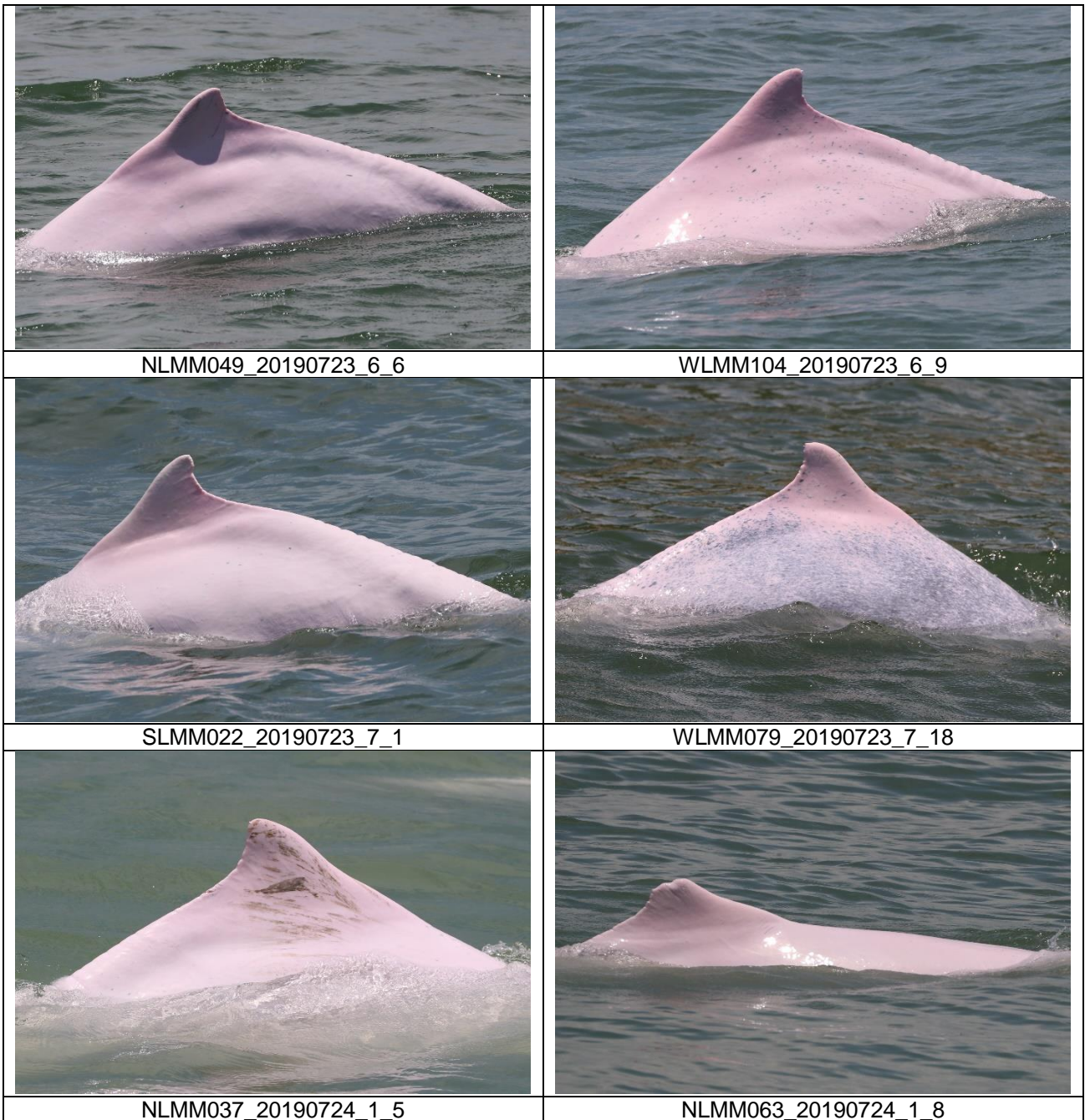












CWD Land-based Theodolite Tracking Survey**CWD Groups by Survey Date**

Date	Station	Start Time	End Time	Duration	Beaufort Range	Visibility	No. of Focal Follow Dolphin Groups Tracked	Dolphin Group Size Range
16/Jul/19	Lung Kwu Chau	8:45	14:45	6:00	2	1-2	1	1
25/Jul/19	Lung Kwu Chau	8:50	14:50	6:00	2-3	1	2	2
26/Jul/19	Sha Chau	8:45	14:45	6:00	2-3	1	0	-

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