Appendix L1 Cumulative Statistics on Exceedances

		Total No. recorded in this quarter	Total No. recorded since project commencement
1-Hr TSP	Action	0	0
	Limit	0	0
24-Hr TSP	Action	0	2
	Limit	0	0
Noise	Action	0	0
	Limit	0	0
Water Quality	Action	1	2
•	Limit	0	0
Impact Dolphin	Action	0	7
Monitoring	Limit	1	2

Appendix L2 Cumulative Statistics on Complaints, Notifications of Summons and Successful Prosecutions

Reporting Period	Cumulative Statistics									
	Complaints	Notifications of	Successful							
		Summons	Prosecutions							
This quarter	0	0	0							
Total No. received since project commencement	2	0	0							

Email message **Environmental** Resources Management

To ENVIRON - Hong Kong, Limited (ENPO)

16/F Berkshire House, 25 Westlands Road Quarry Bay, Hong Kong Telephone: (852) 2271 3113

From ERM-Hong Kong, Limited Facsimile: (852) 2723 5660 E-mail: jovy.tam@erm.com

Ref/Project number Contract No. HY/2012/07

Tuen Mun - Chek Lap Kok Link - Southern

Connection Viaduct Section

Subject Notification of Exceedance for Marine Water

Quality Impact Monitoring

Date 3 June 2015



Dear Sir/ Madam,

Please find attached the Notification of Exceedance (NOE) of the following Log no.:

Action Level Exceedance: 0215660_19 May 2015_ SS_E_Station SR4a

Recorded on 19 May 2015.

Regards,

Mr Jovy Tam

Environmental Team Leader

CONFIDENTIALITY NOTICE

This email transmission is intended only for the use of the addressee and is confidential. If you are not the addressee it may be unlawful for you to read, copy, distribute, disclose or otherwise use the information in this email. If you are not the intended recipient, please telephone or email us immediately.



ERM-Hong Kong, Limited

CONTRACT NO. HY/2012/07 TUEN MUN - CHEK LAP KOK LINK SOUTHERN CONNECTION VIADUCT SECTION

Marine Water Quality Impact Monitoring

Notification of Exceedance

Log No.	021	5660_19 May 2015_ SS_E_Station SR4a							
		[Total No. of Exceedances = 1]							
Date	19 May 2015 (Measured)								
	21 May 2015 (In situ results received by ERM)								
	26 May	2015 (Laboratory results received by ERM)							
Monitoring Station	CS(Mf)5	5, SR4a, SR4, IS8, IS(Mf)16, IS(Mf)9, CS(Mf)3							
Parameter(s) with Exceedance(s)	D	Pepth-averaged Suspended Solids (SS)							
Action Levels	SS	95%-ile of baseline data (23.5 mg/L) and 120% of upstream control							
		station on same day at same tide (32.5 mg/L)							
Limit Levels	SS 99%-ile of baseline data (34.4 mg/L) and 130% of upstream control station on same day at same tide (35.2 mg/L)								
Measured Levels	Action Level Exceedance was ob	served at SR4a (33.6 mg/L) during mid-ebb tide.							
Works Undertaken (at	Marine works on 19 May 2015 at	the nearby marine platforms were:							
the time of monitoring	 Soil grabbing at Pier A5; 								
event)	Iron typing and pile cap co	onstruction works at platforms of Viaduct C.							
	There were no bored piling worl	ks at the nearby marine platforms of Viaducts B, C and D. The							
	aforesaid works were suspended	d before sampling at mid-ebb tide (12:03 to 15:33) due to adverse							
	weather.								
Possible Reason for		ed SS at SR4a during mid-ebb tide is unlikely to be due to the							
Action or Limit Level	Project, in view of the following:								
Exceedance(s)	• The marine works nearby s SR4a (13:39).	monitoring station SR4a had been suspended before sampling at							
	be resulting from heavy ra SS levels in other monitoric during both mid-ebb and r The depth-averaged turbic	 Elevated SS levels were also observed in all monitoring stations on the same day which may be resulting from heavy rainfall on 19 May 2015. Apart from SR4a during mid-ebb tide, the SS levels in other monitoring stations were in compliance with the Action and Limit Levels during both mid-ebb and mid-flood tides. The depth-averaged turbidity and dissolved oxygen levels in all monitoring stations on during 							
	 The gutters of the nearby r waste water runoff recorde No malpractice was observed 	ved during the sampling process.							
Actions Taken/To Be		ed necessary. The contractor is reminded to properly implement							
Taken	the mitigation measures stipulat exceedances.	ed in EM&A Manual. The ET will monitor for future trends in							
Remarks	The monitoring results, locations May 2015 are attached.	s of water quality monitoring stations and rainfall distribution on 19							

Project	Works	Date (yyyy-mm-dd)	Tide	Weather	Stat	Level	Water Depth	Lev_Cod	Replicate	Start Time	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2015-05-19	Mid-Flood	Cloudy	CS(Mf)5	Surface	1	1	1	19:00	26.1	6.93	20.5	6.81		
TMCLKL	HY/2012/07	2015-05-19	Mid-Flood	Cloudy	CS(Mf)5	Surface	1	1	2	19:00	26	6.96	20.4	6.86		
TMCLKL	HY/2012/07	2015-05-19	Mid-Flood	Cloudy	CS(Mf)5	Middle	6.6	2	1	19:00	26.3	7.04	21.2	6.73	20.4	27.8
TMCLKL	HY/2012/07	2015-05-19	Mid-Flood	Cloudy	CS(Mf)5	Middle	6.6	2	2	19:00	26.2	7.08	21.3	6.76	20.4	21.0
TMCLKL	HY/2012/07	2015-05-19	Mid-Flood	Cloudy	CS(Mf)5	Bottom	12.2	3	1	19:00	26.4	7.1	21.8	6.5		
TMCLKL	HY/2012/07	2015-05-19	Mid-Flood	Cloudy	CS(Mf)5	Bottom	12.2	3	2	19:00	26.5	7.08	21.9	6.52		
TMCLKL	HY/2012/07	2015-05-19	Mid-Flood	Cloudy	SR4a	Surface	1	1	1	19:19	26.2	7.11	20.3	6.63		
TMCLKL	HY/2012/07	2015-05-19	Mid-Flood	Cloudy	SR4a	Surface	1	1	2	19:19	26.1	7.07	20.4	6.58		
TMCLKL	HY/2012/07	2015-05-19	Mid-Flood	Cloudy	SR4a	Middle		2	1	19:19					21.3	29.4
TMCLKL	HY/2012/07	2015-05-19	Mid-Flood	Cloudy	SR4a	Middle		2	2	19:19					21.3	29.4
TMCLKL	HY/2012/07	2015-05-19	Mid-Flood	Cloudy	SR4a	Bottom	3.8	3	1	19:19	26.3	6.93	20.4	6.38		
TMCLKL	HY/2012/07	2015-05-19	Mid-Flood	Cloudy	SR4a	Bottom	3.8	3	2	19:19	26.2	6.99	20.5	6.34		
TMCLKL	HY/2012/07	2015-05-19	Mid-Flood	Cloudy	SR4	Surface	1	1	1	19:33	26.1	6.89	20.5	6.53		
TMCLKL	HY/2012/07	2015-05-19	Mid-Flood	Cloudy	SR4	Surface	1	1	2	19:33	26	6.84	20.6	6.57		
TMCLKL	HY/2012/07	2015-05-19	Mid-Flood	Cloudy	SR4	Middle		2	1	19:33					19.1	26.7
TMCLKL	HY/2012/07	2015-05-19	Mid-Flood	Cloudy	SR4	Middle		2	2	19:33					19.1	20.7
TMCLKL	HY/2012/07	2015-05-19	Mid-Flood	Cloudy	SR4	Bottom	3.3	3	1	19:33	26.2	6.73	20.6	6.32		
TMCLKL	HY/2012/07	2015-05-19	Mid-Flood	Cloudy	SR4	Bottom	3.3	3	2	19:33	26.1	6.75	20.6	6.37		
TMCLKL	HY/2012/07	2015-05-19	Mid-Flood	Cloudy	IS8	Surface	1	1	1	19:46	26.2	6.74	20.4	6.67		
TMCLKL	HY/2012/07	2015-05-19	Mid-Flood	Cloudy	IS8	Surface	1	1	2	19:46	26.1	6.76	20.3	6.71		
TMCLKL	HY/2012/07	2015-05-19	Mid-Flood	Cloudy	IS8	Middle		2	1	19:46					20.1	28.1
TMCLKL	HY/2012/07	2015-05-19	Mid-Flood	Cloudy	IS8	Middle		2	2	19:46					20.1	20.1
TMCLKL	HY/2012/07	2015-05-19	Mid-Flood	Cloudy	IS8	Bottom	3.1	3	1	19:46	26.1	6.81	20.3	6.48		
TMCLKL	HY/2012/07	2015-05-19	Mid-Flood	Cloudy	IS8	Bottom	3.1	3	2	19:46	26.2	6.77	20.3	6.42		
TMCLKL	HY/2012/07	2015-05-19	Mid-Flood	Cloudy	IS(Mf)16	Surface	1	1	1	20:01	26.2	6.63	20.4	6.56		
TMCLKL	HY/2012/07	2015-05-19	Mid-Flood	Cloudy	IS(Mf)16	Surface	1	1	2	20:01	26.2	6.68	20.3	6.52		
TMCLKL	HY/2012/07	2015-05-19	Mid-Flood	Cloudy	IS(Mf)16	Middle	5.3	2	1	20:01	26.4	6.79	20.6	6.43	21.0	20.0
TMCLKL	HY/2012/07	2015-05-19	Mid-Flood	Cloudy	IS(Mf)16	Middle	5.3	2	2	20:01	26.3	6.8	20.5	6.47	21.0	28.0
TMCLKL	HY/2012/07	2015-05-19	Mid-Flood	Cloudy	IS(Mf)16	Bottom	9.6	3	1	20:01	26.6	6.87	21.1	6.28		
TMCLKL	HY/2012/07	2015-05-19	Mid-Flood	Cloudy	IS(Mf)16	Bottom	9.6	3	2	20:01	26.5	6.92	21.2	6.22		
TMCLKL	HY/2012/07	2015-05-19	Mid-Flood	Cloudy	IS(Mf)9	Surface	1	1	1	20:19	26.2	6.89	20.6	6.56		
TMCLKL	HY/2012/07	2015-05-19	Mid-Flood	Cloudy	IS(Mf)9	Surface	1	1	2	20:19	26.1	6.9	20.5	6.59		
TMCLKL	HY/2012/07	2015-05-19	Mid-Flood	Cloudy	IS(Mf)9	Middle		2	1	20:19					20.5	28.3
TMCLKL	HY/2012/07	2015-05-19	Mid-Flood	Cloudy	IS(Mf)9	Middle		2	2	20:19					20.3	20.3

Project	Works	Date (yyyy-mm-dd)	Tide	Weather	Stat	Level	Water Depth	Lev_Cod	Replicate	Start Time	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2015-05-19	Mid-Flood	Cloudy	IS(Mf)9	Bottom	4.4	3	1	20:19	26.1	6.86	20.8	6.49		
TMCLKL	HY/2012/07	2015-05-19	Mid-Flood	Cloudy	IS(Mf)9	Bottom	4.4	3	2	20:19	26.1	6.85	20.8	6.47		
TMCLKL	HY/2012/07	2015-05-19	Mid-Flood	Cloudy	CS(Mf)3	Surface	1	1	1	20:38	26.1	7.04	20.7	6.67		
TMCLKL	HY/2012/07	2015-05-19	Mid-Flood	Cloudy	CS(Mf)3	Surface	1	1	2	20:38	26	7.07	20.8	6.71		
TMCLKL	HY/2012/07	2015-05-19	Mid-Flood	Cloudy	CS(Mf)3	Middle	6.3	2	1	20:38	25.9	7.11	20.5	6.62	17.4	24.5
TMCLKL	HY/2012/07	2015-05-19	Mid-Flood	Cloudy	CS(Mf)3	Middle	6.3	2	2	20:38	26	7.13	20.6	6.65	17.4	24.3
TMCLKL	HY/2012/07	2015-05-19	Mid-Flood	Cloudy	CS(Mf)3	Bottom	11.6	3	1	20:38	26.3	6.96	21.8	6.47		
TMCLKL	HY/2012/07	2015-05-19	Mid-Flood	Cloudy	CS(Mf)3	Bottom	11.6	3	2	20:38	26.4	6.98	21.9	6.41		
TMCLKL	HY/2012/07	2015-05-19	Mid-Ebb	Cloudy	CS(Mf)3	Surface	1	1	1	12:03	26.4	6.98	20.6	6.54		
TMCLKL	HY/2012/07	2015-05-19	Mid-Ebb	Cloudy	CS(Mf)3	Surface	1	1	2	12:03	26.4	7.01	20.5	6.56		
TMCLKL	HY/2012/07	2015-05-19	Mid-Ebb	Cloudy	CS(Mf)3	Middle	6.1	2	1	12:03	26.4	6.94	20.9	6.66	19.5	27.1
TMCLKL	HY/2012/07	2015-05-19	Mid-Ebb	Cloudy	CS(Mf)3	Middle	6.1	2	2	12:03	26.5	6.96	21	6.63	19.5	27.1
TMCLKL	HY/2012/07	2015-05-19	Mid-Ebb	Cloudy	CS(Mf)3	Bottom	11.2	3	1	12:03	26.6	6.87	21.3	6.38		
TMCLKL	HY/2012/07	2015-05-19	Mid-Ebb	Cloudy	CS(Mf)3	Bottom	11.2	3	2	12:03	26.7	6.9	21.4	6.41		
TMCLKL	HY/2012/07	2015-05-19	Mid-Ebb	Cloudy	SR4a	Surface	1	1	1	13:39	26.6	7.01	20.1	6.52		
TMCLKL	HY/2012/07	2015-05-19	Mid-Ebb	Cloudy	SR4a	Surface	1	1	2	13:39	26.6	6.97	20.2	6.48		
TMCLKL	HY/2012/07	2015-05-19	Mid-Ebb	Cloudy	SR4a	Middle		2	1	13:39					23.7	33.6
TMCLKL	HY/2012/07	2015-05-19	Mid-Ebb	Cloudy	SR4a	Middle		2	2	13:39					23.1	33.0
TMCLKL	HY/2012/07	2015-05-19	Mid-Ebb	Cloudy	SR4a	Bottom	3.2	3	1	13:39	26.6	6.86	20.7	6.27		
TMCLKL	HY/2012/07	2015-05-19	Mid-Ebb	Cloudy	SR4a	Bottom	3.2	3	2	13:39	26.6	6.89	20.6	6.31		
TMCLKL	HY/2012/07	2015-05-19	Mid-Ebb	Cloudy	SR4	Surface	1	1	1	13:21	26.6	6.78	20.2	6.41		
TMCLKL	HY/2012/07	2015-05-19	Mid-Ebb	Cloudy	SR4	Surface	1	1	2	13:21	26.6	6.8	20.3	6.39		
TMCLKL	HY/2012/07	2015-05-19	Mid-Ebb	Cloudy	SR4	Middle		2	1	13:21					22.4	31.6
TMCLKL	HY/2012/07	2015-05-19	Mid-Ebb	Cloudy	SR4	Middle		2	2	13:21					22.4	31.0
TMCLKL	HY/2012/07	2015-05-19	Mid-Ebb	Cloudy	SR4	Bottom	3	3	1	13:21	26.6	6.67	20.6	6.18		
TMCLKL	HY/2012/07	2015-05-19	Mid-Ebb	Cloudy	SR4	Bottom	3	3	2	13:21	26.5	6.7	20.5	6.16		
TMCLKL	HY/2012/07	2015-05-19	Mid-Ebb	Cloudy	IS8	Surface	1	1	1	13:05	26.5	6.72	20.1	6.53		
TMCLKL	HY/2012/07	2015-05-19	Mid-Ebb	Cloudy	IS8	Surface	1	1	2	13:05	26.6	6.76	20.2	6.49		
TMCLKL	HY/2012/07	2015-05-19	Mid-Ebb	Cloudy	IS8	Middle		2	1	13:05					22.0	30.4
TMCLKL	HY/2012/07	2015-05-19	Mid-Ebb	Cloudy	IS8	Middle		2	2	13:05					ZZ . U	30.4
TMCLKL	HY/2012/07	2015-05-19	Mid-Ebb	Cloudy	IS8	Bottom	2.9	3	1	13:05	26.5	6.75	20.4	6.35		
TMCLKL	HY/2012/07	2015-05-19	Mid-Ebb	Cloudy	IS8	Bottom	2.9	3	2	13:05	26.4	6.79	20.4	6.31		
TMCLKL	HY/2012/07	2015-05-19	Mid-Ebb	Cloudy	IS(Mf)16	Surface	1	1	1	12:43	26.5	6.78	20.2	6.38		
TMCLKL	HY/2012/07	2015-05-19	Mid-Ebb	Cloudy	IS(Mf)16	Surface	1	1	2	12:43	26.5	6.8	20.2	6.34		

Project	Works	Date (yyyy-mm-dd)	Tide	Weather	Stat	Level	Water Depth	Lev_Cod	Replicate	Start Time	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2015-05-19	Mid-Ebb	Cloudy	IS(Mf)16	Middle	5	2	1	12:43	26.5	6.74	20.4	6.41	20.8	28.9
TMCLKL	HY/2012/07	2015-05-19	Mid-Ebb	Cloudy	IS(Mf)16	Middle	5	2	2	12:43	26.4	6.77	20.5	6.42	20.0	20.9
TMCLKL	HY/2012/07	2015-05-19	Mid-Ebb	Cloudy	IS(Mf)16	Bottom	8.9	3	1	12:43	26.6	6.82	20.8	6.2		
TMCLKL	HY/2012/07	2015-05-19	Mid-Ebb	Cloudy	IS(Mf)16	Bottom	8.9	3	2	12:43	26.7	6.79	20.7	6.17		
TMCLKL	HY/2012/07	2015-05-19	Mid-Ebb	Cloudy	IS(Mf)9	Surface	1	1	1	12:26	26.4	6.84	20.4	6.47		
TMCLKL	HY/2012/07	2015-05-19	Mid-Ebb	Cloudy	IS(Mf)9	Surface	1	1	2	12:26	26.5	6.87	20.4	6.44		
TMCLKL	HY/2012/07	2015-05-19	Mid-Ebb	Cloudy	IS(Mf)9	Middle		2	1	12:26					21.0	31.5
TMCLKL	HY/2012/07	2015-05-19	Mid-Ebb	Cloudy	IS(Mf)9	Middle		2	2	12:26					21.0	31.3
TMCLKL	HY/2012/07	2015-05-19	Mid-Ebb	Cloudy	IS(Mf)9	Bottom	4	3	1	12:26	26.5	6.79	20.7	6.53		
TMCLKL	HY/2012/07	2015-05-19	Mid-Ebb	Cloudy	IS(Mf)9	Bottom	4	3	2	12:26	26.5	6.81	20.8	6.56		
TMCLKL	HY/2012/07	2015-05-19	Mid-Ebb	Cloudy	CS(Mf)5	Surface	1	1	1	13:55	26.6	6.89	20.2	6.74		
TMCLKL	HY/2012/07	2015-05-19	Mid-Ebb	Cloudy	CS(Mf)5	Surface	1	1	2	13:55	26.5	6.85	20.3	6.7		
TMCLKL	HY/2012/07	2015-05-19	Mid-Ebb	Cloudy	CS(Mf)5	Middle	6.5	2	1	13:55	26.5	6.93	20.8	6.63	22.1	31.6
TMCLKL	HY/2012/07	2015-05-19	Mid-Ebb	Cloudy	CS(Mf)5	Middle	6.5	2	2	13:55	26.5	6.9	23.9	6.65	22.1	31.0
TMCLKL	HY/2012/07	2015-05-19	Mid-Ebb	Cloudy	CS(Mf)5	Bottom	11.9	3	1	13:55	26.6	6.96	21.6	6.34		
TMCLKL	HY/2012/07	2015-05-19	Mid-Ebb	Cloudy	CS(Mf)5	Bottom	11.9	3	2	13:55	26.7	6.99	21.5	6.36		

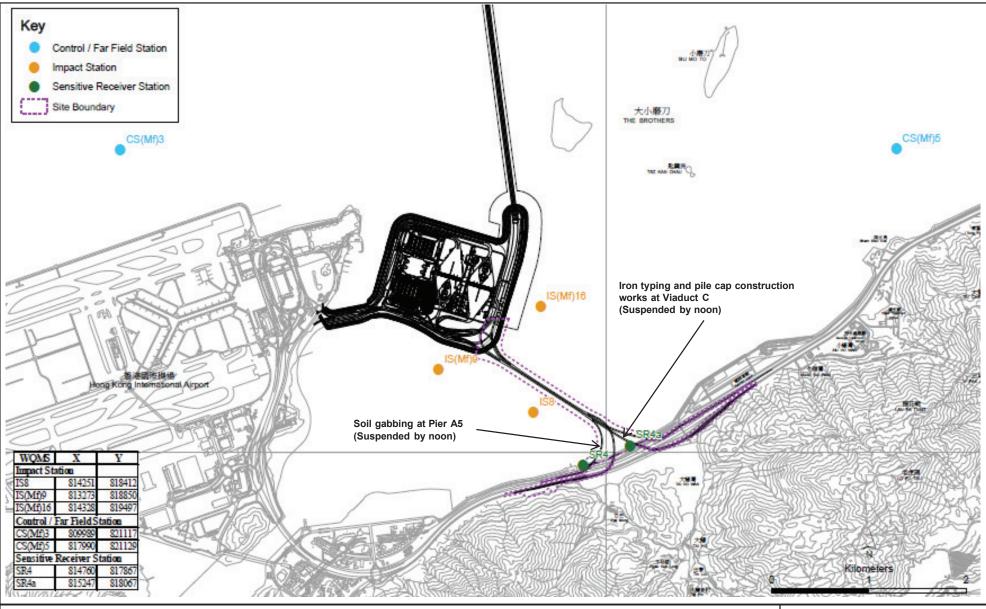


Figure 1

HY/2012/07 TM-CLKL Southern Connection Viaduct Section
Water Quality Monitoring Stations and Marine Works nearby SR4a Undertaken on 19 May 2015

Environmental Resources Management



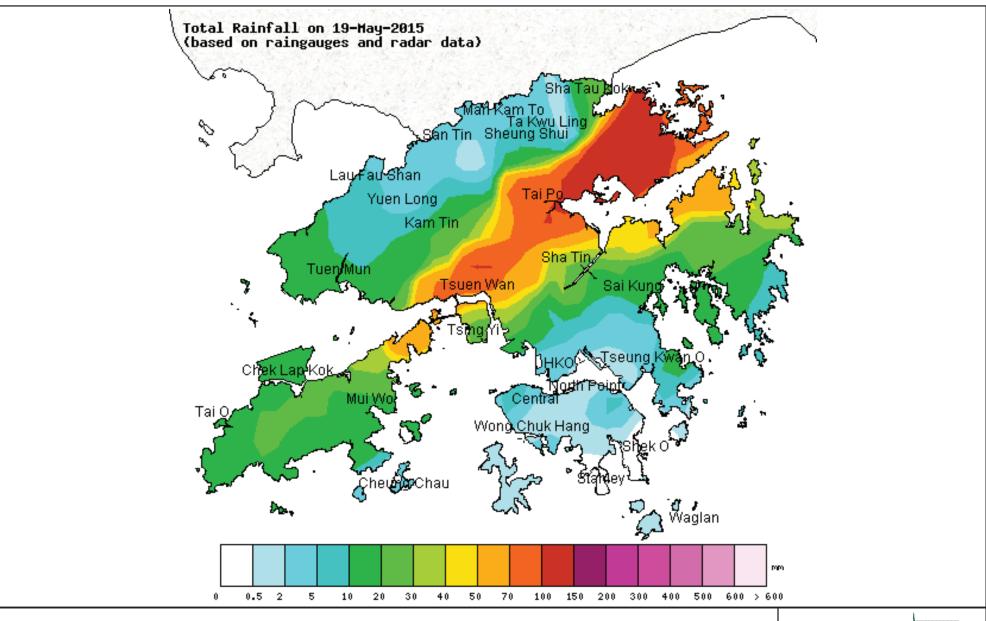


Figure 2

Rainfall distribution on 19 May 2015 (Source: Hong Kong Observatory)

Environmental Resources Management



Email message

Environmental Resources Management

To ENVIRON - Hong Kong, Limited (ENPO) 16/F Berkshire House, 25 Westlands Road Quarry Bay, Hong Kong

From

ERM- Hong Kong, Limited

Telephone: (852) 2271 3113 Facsimile: (852) 2723 5660 E-mail: jovy.tam@erm.com

Ref/Project number

Contract No. HY/2012/07 Tuen Mun-Chek Lap

Kok Link-Southern Connection Viaduct Section

Subject Notification of Exceedance for Impact Dolphin

Monitoring

Date 19 October 2015



Dear Sir or Madam,

Please find attached the Notification of Exceedance (NOE) of the following Log no.:

0215660_Mar2015/May2015_dolphin_STG&ANI_NEL&NWL

A total of one limit level exceedance was recorded in the quarterly impact dolphin monitoring data between March and May 2015.

Regards,

Mr Jovy Tam

Environmental Team Leader

CONFIDENTIALITY NOTICE

This email transmission is intended only for the use of the addressee and is confidential. If you are not the addressee it may be unlawful for you to read, copy, distribute, disclose or otherwise use the information in this email. If you are not the intended recipient, please telephone or fax us.



ERM-Hong Kong, Limited

CONTRACT NO. HY/2012/07 TUEN MUN – CHEK LAP KOK LINK – SOUTHERN CONNECTION VIADUCT SECTION

Impact Dolphin Monitoring Notification of Exceedance

Log No.	0215660_Mar2014/May2015_dolphin_STG&ANI_NEL&NWL								
	[Total No. of Exceedance = 1]								
Date	N	March 2015 to May 2015 (monitored)							
	1 September 2015 (results received by ERM)								
Monitoring Area	Northeast	Lantau (NEL) and Northwest Lantau (NWL)							
Parameter(s) with	Quarterl	y encounter rate of dolphin sightings (STG)							
Exceedance(s)		ncounter rate of total number of dolphins (ANI)							
Action Levels		NEL: STG < 4.2 & ANI < 15.5							
		Or							
T 1 1 1	North Lantau Social cluster	NWL: STG < 6.9 & ANI < 31.3							
Limit Levels		NEL: STG < 2.4 & ANI < 8.9 and							
		NWL: STG< 3.9 & ANI < 17.9							
Recorded Levels	NEL	STG = 0.0 & ANI = 0.0							
necoraca Ecvers	NWL	STG = 0.47 & ANI = 2.36							
		ecorded in the quarterly impact dolphin monitoring at NEL and							
		015. The exceedance was reported in the approved <i>Nineteenth</i>							
	•	• • • • • • • • • • • • • • • • • • • •							
Ctatiatical Amalana	Monthly EM&A Report dated 9 Ju								
Statistical Analyses		able and relevant dolphin monitoring data in the EM&A under this							
	Contract, statistical analyses were conducted as follows: • A two-way ANOVA with repeated measures and unequal sample size was conducted using								
		s impact – present impact quarter, March to May 2015) and							
		d NWL) as fixed factors to examine whether there were any							
		ne averages encounter rates between the baseline and present							
		By setting $\alpha = 0.05$ as the significance level in the statistical tests,							
		G(p = 0.0015) and in ANI $(p = 0.0139)$ between Period were							
	detected.								
	A two-way ANOVA with a	repeated measures and unequal sample size was conducted using							
		s: baseline vs impact – cumulative quarters, December 2012 to May							
		s: NEL and NWL) as fixed factors to examine whether there were							
		in the averages encounter rates between the baseline and							
	_	ring quarter. By setting $\alpha = 0.01$ as the significance level in the							
	Cumulative Period and Lo	difference in STG ($p = 0.0004$) and in ANI ($p = 0.0001$) between							
		it date under <i>Contract No. HY/2012/07</i> is 31 October 2013.							
Works Undertaken (in		15 and May 2015, the major marine works under <i>Contract No.</i>							
the monitoring	HY/2012/07 included:								
quarter)	Construction of Pile caps;								
1	Marine piling platform inst	allation & uninstallation;							
	Pier Construction;	, , , , , , , , , , , , , , , , , , ,							
	Installation of launching ga	ntry;							
	Installation of pier head seg								
	Marine Piling at Viaducts; a								
	Additional marine ground:	investigation (GI) and laboratory testing.							

Possible Reason for	There is no direct evidence showing the exceedance is due to this Contract in view of the followings:
Action or Limit Level Exceedance(s)	 The Monitoring of Marine Mammals in Hong Kong Waters (2014 – 15) (1) reported that dolphin usage and traveling activities to the northern side of the airport (dolphin traveling corridor) are affected by frequent high-speed ferry traffic from Sky Pier (not related to this Contract), which is likely a major factor resulting in the decrease in dolphin abundances in North Lantau. As per the findings from the EIA report (Section 8.11.9), the major influences on the Chinese White Dolphin (CWD) Sousa chinensis under this Contract are marine traffics and bored piling works. The Contractor has implemented the marine traffic control as per the requirements in the EP-354/2009/D and the updated EM&A Manual. Likewise, the bored piling works were undertaken within a metal casing as described in the EP and the approved EIA Report. After reviewing of the bored piling records, the bored piling working rates in this quarter are within the allowable working rate described in the EP (Clause 3.11), in which construction works were not undertaken at more than 15 piers sites from March to May 2015. During this quarter of dolphin monitoring, no unacceptable impact on CWD due to the activities under this Contract was observed. According to the findings in the water quality monitoring results at the impact monitoring stations between March and May 2015, there was an Action Level exceedance on depthaveraged SS on 19 May 2015, however, the recorded exceedance was considered not related to this Contract upon further investigation. Overall, the WQM results imply that no unacceptable impact on water quality was associated with the marine works under this Contract, and thus no indirect impacts on marine habitat quality due to change in water quality is observed in this Contract.
Actions Taken / To Be	With reference to the site inspection records in this quarter, the respective marine ecological
Taken	mitigation measures (including 250 m dolphin exclusion zone, Passive Acoustic Monitoring (PAM) for night time works, acoustic decoupling plan, training to workers, marine vessels speed control and offsite travel route control) have been implemented properly by the Contractor throughout the marine works period. No immediate additional action is considered necessary. The ET will monitor for future trends in exceedance(s).
	A joint team meeting was held on 10 July 2015 for discussion on CWD trend, with attendance of ENPO, HyD, Representatives of Resident Site Staff (RSS), Environmental Team (ET) for Contract No. Hy/2010/02, Hy2011/03, Hy/2012/07 and Hy/2012/08, and Representatives of Main Contractor for Contract No. Hy/2011/03 and Hy/2012/08. The discussion/recommendation as recorded in the minutes of the meeting, which might be relevant to this Contract are summarized below. It was concluded that the HZMB works is one of the contributing factors affecting the dolphins. It was also concluded the contribution of impacts due to the HZMB works as a whole (or individual marine contracts) cannot be quantified nor separate from the other stress factors. It was reminded that the ETs shall keep reviewing the implementation status of the dolphin related mitigation measures and remind the contractor to ensure the relevant measures were fully implemented. The participants were requested by ENPO to collect and report the marine traffic statistics. It was recommended that the marine works of HZMB projects should be completed as soon as possible so as to reduce the overall duration of impacts and allow the dolphins population to recover as early as possible.
Remarks	The results of impact water quality and impact dolphin monitoring, the status of implemented marine ecological mitigation measures are documented in the approved <i>Seventeenth</i> to <i>Nineteenth Monthly EM&A Reports</i> . Comparison on water quality between impact and baseline periods will be elaborated in the 6 th <i>Quarterly EM&A Report</i> .