Appendix D

Summary of Action and Limit Levels

Parameters	Action	Limit
24 Hour TSP Level in $\mu g/m^3$	ASR1 = 213	260
	ASR5 = 238	
	AQMS1 = 213	
	ASR6 = 238	
	ASR10 = 214	
1 Hour TSP Level in $\mu g / m^3$	ASR1 = 331	500
C C	ASR5 = 340	
	AQMS1 = 335	
	ASR6 = 338	
	ASR10 = 337	

Table D1Action and Limit Levels for 1-hour and 24-hour TSP

Table D2Action and Limit Levels for Water Quality

Parameter	Action Level#	Limit Level#
DO in mg/L (a)	Surface and Middle	Surface and Middle
	5.0 mg/L	4.2 mg/L
	<u>Bottom</u> 4.7 mg/L	<u>Bottom</u> 3.6 mg/L
Turbidity in NTU (Depth- averaged ^{(b), (c)})	120% of upstream control station at the same tide of the same day and 95%-ile of baseline data, i.e.,	130% of upstream control station at the same tide of the same day and 99%-ile of baseline data, i.e.,
	27.5 NTU	47.0 NTU
SS in mg/L (Depth-averaged (^{b), (c)})	120% of upstream control station at the same tide of the same day and 95%-ile of baseline data, i.e., 23.5 mg/L	130% of upstream control station at the same tide of the same day and 10mg/L for WSD Seawater Intakes at Tuen Mun and 99%-ile of baseline data, i.e.,
		34.4 mg/L

Notes:

Baseline data: data from HKZMB Baseline Water Quality Monitoring between 6 and 31 October 2011.

- (a) For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.
- (b) "Depth-averaged" is calculated by taking the arithmetic means of reading of all three depths
- (c) For turbidity and SS, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.
- (d) All figures given in the table are used for reference only, and EPD may amend the figures whenever it is considered as necessary
- (e) The 1%-ile of baseline data for surface and middle DO is 4.2 mg/L, whilst for bottom DO is 3.6 mg/L.
- (f) The AL/LL for WQM stations, IS(Mf)11, IS17 and SR7, are adopted from HZMB HKBCF project.

Table D3Action and Limit Levels for Impact Dolphin Monitoring

		North Lan	North Lantau Social Cluster		
		NEL	NWL		
Act	ion Level	STG < 70% of baseline &	STG < 70% of baseline &		
		ANI < 70% of baseline	ANI < 70% of baseline		
Limit Level		[STG < 40% of baseling	[STG < 40% of baseline & ANI < 40% of baseline]		
			and		
		STG < 40% of baselin	STG < 40% of baseline & ANI < 40% of baseline		
No	tes:				
1.	STG means quarterly encounter rate of number of dolphin sightings, which is 6.00 in				
	NEL and 9.85 in NWL during the baseline monitoring period				
2.	ANI means quarterly encounter rate of total number of dolphins, which is 22.19 in NEI				
	and 44.66 in NV	VL during the baseline monitoring peri	lod		
		u Social Cluster, AL will be trigger if N			

LL will be triggered if both NEL and NWL fall below the criteria.

Table D4

Derived Value of Action Level (AL) and Limit Level (LL)

	North Lantau Social Cluster		
	NEL	NWL	
Action Level	STG < 4.2 & ANI< 15.5	STG < 6.9 & ANI < 31.3	
Limit Level	NEL = [STG <	NEL = [STG < 2.4 & ANI <8.9] and	
	a		
	NWL = [STG < 3.9 & ANI <17.9]		