

Appendix C

Summary of Action and Limit Levels

Table C1 *Action and Limit Levels for 1-hour and 24-hour TSP*

| Parameters | Action | Limit |
|---|--|-------|
| 24 Hour TSP Level in $\mu\text{g}/\text{m}^3$ | ASR9A/ASR8A = 178 ASR9C/ASR8/ASR9 = 178 | 260 |
| 1 Hour TSP Level in $\mu\text{g}/\text{m}^3$ | ASR9A/ASR8A = 394 ASR9C/ASR8/ASR9 = 393 | 500 |

Table C2 *Action and Limit Levels for Construction Noise (0700-1900 hrs of normal weekdays)*

| Time Period | Action | Limit |
|----------------------------------|---|-----------|
| 0700-1900 hrs on normal weekdays | When one documented complaint is received | 75* dB(A) |

Table C3 *Action and Limit Levels for Water Quality*

| Parameter | Action Level# | Limit Level# |
|--|--|--|
| DO in mg/L ^(a) | <u>Surface and Middle</u> 5.0 mg/L | <u>Surface and Middle</u> 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., 27.5 NTU | 130% of upstream control station at the same tide of the same day and 99%-ile of baseline data, i.e., 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

| Parameter | Action Level# | Limit Level# |
|-----------|--|--------------|
| (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. | |

Table C4 *Action and Limit Levels for Impact Dolphin Monitoring*

| | North Lantau Social Cluster | |
|--------------|---|---|
| | NEL | NWL |
| Action Level | STG < 70% of baseline & ANI < 70% of baseline | STG < 70% of baseline & ANI < 70% of baseline |
| Limit Level | [STG < 40% of baseline & ANI < 40% of baseline] and STG < 40% of baseline & ANI < 40% of baseline | |

Notes:

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 NEL** and **44.66 in NWL** during the baseline monitoring period
3. For North Lantau Social Cluster, AL will be trigger if NEL or NWL fall below the criteria; LL will be triggered if both NEL and NWL fall below the criteria.

Table C5 *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 | [STG < 2.4 & ANI < 8.9] and [STG < 3.9 & ANI < 17.9] | |