

### Water Quality Data of Sha Chau & Lung Kwu Chau Marine Park from July to September 2011 (Third Quarter)

|                                        | Lung Kwu Chau North |        | Pak Chau |        | Sha Chau East |        |
|----------------------------------------|---------------------|--------|----------|--------|---------------|--------|
| No. of Sample                          | 1                   |        | 1        |        | 1             |        |
| Water Depth                            | Surface             | Bottom | Surface  | Bottom | Surface       | Bottom |
| Air Temperature (°C)                   | 28.15               |        | 28.41    |        | 28.91         |        |
| Temperature (°C)                       | 29.65               | 25.74  | 29.66    | 25.16  | 29.26         | 24.30  |
| Salinity (‰)                           | 10.89               | 26.63  | 10.89    | 28.37  | 11.72         | 30.81  |
| Dissolved Oxygen (mg/L)                | 11.13               | 5.36   | 10.68    | 3.88   | 11.36         | 2.76   |
| pH                                     | 8.47                | 8.16   | 8.43     | 8.08   | 8.45          | 8.09   |
| Secchi Disc Depth (m)                  | 1.0                 |        | 1.3      |        | 1.1           |        |
| Turbidity (NTU)                        | 5.20                | 15.70  | 5.10     | 7.50   | 4.20          | 10.60  |
| Suspended Solids (mg/L)                | 9.60                | 21.20  | 11.20    | 14.40  | 8.00          | 16.00  |
| 5-Day Biochemical Oxygen Demand (mg/L) | 3.00                | 1.30   | 2.70     | 1.20   | 2.90          | 1.60   |
| Ammoniacal Nitrogen (mg/L)             | 0.052               | 0.048  | 0.041    | 0.041  | 0.043         | 0.056  |
| Unionized Ammonia (mg/L)               | 0.010               | 0.004  | 0.007    | 0.003  | 0.008         | 0.004  |
| Nitrite Nitrogen (mg/L)                | 0.19                | 0.09   | 0.21     | 0.08   | 0.18          | 0.02   |
| Nitrate Nitrogen (mg/L)                | 1.29                | 0.62   | 1.36     | 0.56   | 1.18          | 0.28   |
| Total Inorganic Nitrogen (mg/L)        | 1.53                | 0.76   | 1.62     | 0.69   | 1.41          | 0.36   |
| Total Kjeldahl Nitrogen (mg/L)         | 0.45                | 0.88   | 0.36     | 0.79   | 0.51          | 0.79   |
| Total Nitrogen (mg/L)                  | 1.93                | 1.59   | 1.93     | 1.44   | 1.88          | 1.09   |
| Orthophosphate Phosphorus (mg/L)       | 0.023               | 0.043  | 0.014    | 0.047  | 0.020         | 0.050  |
| Total Phosphorus (mg/L)                | 0.03                | 0.04   | 0.03     | 0.01   | 0.01          | 0.02   |
| Chlorophyll-a (µg/L)                   | 32.96               | 5.24   | 33.26    | 2.67   | 40.66         | 1.96   |
| <i>E. coli</i> (cfu/100 mL)            | <1                  | 189    | <1       | 116    | <1            | 26     |
| Faecal Coliforms (cfu/100 mL)          | 48                  | 377    | 13       | 295    | 2             | 48     |

ND: Not detectable