

**Water Quality Data of Sha Chau & Lung Kwu Chau Marine Park from July to September 2012 (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)             | 29.19               |        | 28.74    |        | 29.28         |        |
| Temperature (°C)                 | 29.48               | 28.73  | 29.31    | 28.50  | 29.44         | 26.95  |
| Salinity (‰)                     | 6.45                | 11.24  | 7.27     | 14.94  | 5.7           | 25.43  |
| Dissolved Oxygen (mg/L)          | 7.74                | 6.32   | 8.56     | 6.72   | 8.8           | 2.24   |
| pH                               | 8.12                | 7.86   | 8.22     | 7.92   | 8.33          | 7.67   |
| Secchi Disc Depth (m)            | 1.7                 |        | 1.6      |        | 0.9           |        |
| Turbidity (NTU)                  | 6.80                | 21.20  | 6.10     | 6.50   | 6.40          | 10.30  |
| Suspended Solids (mg/L)          | 7.00                | 7.20   | 7.60     | 6.60   | 7.20          | 8.00   |
| 5-Day Biochemical Oxygen Demand  | 1.30                | 0.80   | 1.30     | 1.50   | 1.10          | 1.00   |
| Ammoniacal Nitrogen (mg/L)       | 0.001               | 0.059  | 0.003    | 0.011  | 0.001         | 0.076  |
| Unionized Ammonia (mg/L)         | <0.001              | 0.003  | <0.001   | 0.001  | <0.001        | <0.001 |
| Nitrite Nitrogen (mg/L)          | 0.04                | 0.04   | 0.04     | 0.02   | 0.02          | 0.04   |
| Nitrate Nitrogen (mg/L)          | 0.58                | 0.71   | 0.48     | 0.51   | 0.48          | 0.43   |
| Total Inorganic Nitrogen (mg/L)  | 0.61                | 0.81   | 0.52     | 0.54   | 0.50          | 0.55   |
| Total Kjeldahl Nitrogen (mg/L)   | 0.54                | 0.19   | 0.79     | 0.42   | 0.53          | 0.14   |
| Total Nitrogen (mg/L)            | 1.15                | 0.94   | 1.31     | 0.95   | 1.03          | 0.62   |
| Orthophosphate Phosphorus (mg/L) | 0.011               | 0.019  | 0.006    | <0.001 | <0.001        | 0.005  |
| Total Phosphorus (mg/L)          | 0.02                | 0.02   | 0.01     | 0.02   | 0.02          | 0.03   |
| Chlorophyll-a (µg/L)             | 0.14                | 2.65   | 0.14     | 0.34   | 3.54          | 1.30   |
| <i>E. coli</i> (cfu/100 mL)      | <1                  | 364    | 2        | 68     | 2             | 336    |
| Faecal Coliforms (cfu/100 mL)    | 10                  | 612    | 6        | 158    | 2             | 468    |