

Tung Chung New Town Extension (West)
Ecologically-related Water Quality Monitoring Results

Reporting Month: **Apr-2023**

| Monitoring Station | | RP1 | | RP2 | | RP4 | | PW1 | | PW3 | |
|------------------------------|-----------|----------|----------|---------|---------|----------|----------|-------|-------|----------|----------|
| Replicate | Unit | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 |
| Sampling Time | - | 09:00 | 09:00 | 10:15 | 10:15 | 12:45 | 12:45 | 09:35 | 09:35 | 13:25 | 13:25 |
| Weather | - | Overcast | Overcast | Drizzle | Drizzle | Overcast | Overcast | Rainy | Rainy | Overcast | Overcast |
| Sampling Depth | m | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.2 | 0.2 | 0.3 | 0.3 |
| Parameter | | | | | | | | | | | |
| pH | | 7.3 | 7.3 | 7.0 | 6.9 | 9.0 | 9.0 | 7.1 | 7.0 | 8.2 | 8.2 |
| Salinity | ppt | 0.03 | 0.03 | 0.05 | 0.05 | 0.09 | 0.09 | 0.04 | 0.04 | 25.34 | 25.38 |
| Temperature | °C | 24.5 | 24.5 | 24.6 | 24.6 | 25.3 | 25.3 | 24.8 | 24.8 | 25.4 | 25.4 |
| Turbidity | NTU | 1.2 | 1.4 | 1.3 | 1.6 | 9.2 | 9.2 | 2.6 | 2.7 | 3.6 | 3.6 |
| DO | mg/L | 9.3 | 9.1 | 8.3 | 8.2 | 7.4 | 7.3 | 8.9 | 8.9 | 7.7 | 7.7 |
| DO Saturation | % | 111.6 | 108.7 | 100.2 | 98.5 | 89.9 | 89.2 | 107.0 | 106.9 | 108.5 | 108.3 |
| Suspended Solids | mg/L | 0.9 | 1.3 | 4.8 | 6.1 | 7.8 | 8.3 | 2.7 | 2.5 | 5.3 | 4.9 |
| Ammonia as N | mg/L | 0.02 | 0.02 | 0.06 | 0.04 | 0.06 | 0.05 | 0.96 | 0.91 | 0.07 | 0.06 |
| Total Kjeldahl Nitrogen as N | mg/L | <0.05 | 0.07 | 0.14 | 0.14 | 0.20 | 0.21 | 1.09 | 1.06 | 0.28 | 0.24 |
| Total Phosphorus as P | mg/L | <0.01 | <0.01 | 0.05 | 0.05 | 0.02 | 0.02 | 0.15 | 0.15 | 0.03 | 0.02 |
| <i>Escherichia coli</i> | CFU/100mL | 41 | 24 | 21 | 17 | 49 | 57 | 73 | 83 | 1400 | 1200 |
| Biochemical Oxygen Demand | mg/L | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1.4 | 1.5 | <1.0 | <1.0 |
| Chemical Oxygen Demand | mg/L | 6 | 6 | 9 | 9 | 9 | 8 | 9 | 10 | 59 | 52 |
| Oil & Grease | mg/L | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |

Ecological Monitoring at the monitoring station RP3 and PW2 were suspended since March 2023 with the commencement of temporary river diversion in Tung Chung Stream.