



ANNEX F2

SURFACE WATER QUALITY MONITORING
RESULTS

TABLE F2.4 SURFACE WATER QUALITY MONITORING RESULTS

| Date | | | 12 Jun 24 | 12 Jun 24 | 12 Jun 24 |
|-------------------------------|----------------|-------------------------|-----------|-----------|-----------------|
| | | Limit Level (DP4 & DP6) | DP4 | DP6 | DP6 (Duplicate) |
| pH Value | pH Unit | 6 - 9 | 9.3 | 7.9 | 7.9 |
| Electrical Conductivity | µS/cm | - | 282 | 278 | 277 |
| Dissolved Oxygen | mg/L | - | 7 | 8.3 | 8.3 |
| Volume Discharge | m ³ | - | 1185 | 28 | 28 |
| Bicarbonate | mg/L | - | 104 | 76 | 75 |
| Carbonate | mg/L | - | 24 | <1 | <1 |
| Suspended Solids (SS) | mg/L | 20 | 395 | 10.6 | 10.1 |
| Ammonia-nitrogen | mg/L | 7.1 | 0.12 | <0.01 | <0.01 |
| Chloride | mg/L | - | 28 | 25 | 25 |
| Nitrite-nitrogen | mg/L | - | 0.05 | <0.01 | <0.01 |
| Phosphate | mg/L | 5 | <0.01 | <0.01 | <0.01 |
| Sulphate | mg/L | - | 51 | 18 | 18 |
| Sulphide | mg/L | 2.5 | <0.1 | <0.1 | <0.1 |
| Total Kjeldahl Nitrogen (TKN) | mg/L | - | 0.4 | <0.1 | <0.1 |
| Nitrate-nitrogen | mg/L | - | 0.52 | 0.26 | 0.26 |

| | | | | | |
|---------------------------|------|------|-------|-------|-------|
| Total Nitrogen (TN) | mg/L | 50 | 0.9 | 0.3 | 0.3 |
| Biochemical Oxygen Demand | mg/L | 20 | <2 | <2 | <2 |
| Chemical Oxygen Demand | mg/L | 30 | 7 | 3 | 3 |
| Oil & Grease | mg/L | 20 | <5 | <5 | <5 |
| Total Organic Carbon | mg/L | - | 4 | 2 | 2 |
| Boron | µg/L | 1100 | 60 | 50 | 50 |
| Calcium | mg/L | | 29.6 | 30 | 29.9 |
| Mercury | µg/L | 1 | <0.20 | <0.20 | <0.20 |
| Magnesium | mg/L | - | 1.35 | 1.49 | 1.49 |
| Sodium | mg/L | - | 17.6 | 17 | 17 |
| Iron | mg/L | 3 | <0.04 | <0.04 | <0.04 |
| Potassium | mg/L | - | 5.8 | 6.34 | 6.27 |
| Cadmium | µg/L | 1 | <0.2 | <0.2 | <0.2 |
| Chromium | µg/L | 300 | 2 | <1 | <1 |
| Copper | µg/L | 300 | 1 | <1 | <1 |
| Lead | µg/L | 300 | <1 | <1 | <1 |
| Manganese | µg/L | - | <1 | 5 | 4 |
| Nickel | µg/L | 300 | <1 | <1 | <1 |
| Zinc | µg/L | - | <10 | <10 | <10 |