

Schedule XXIII.

Total ammoniacal nitrogen concentrations at other pHs and temperatures (Tukituki River Catchment)

Chronic total ammoniacal-N concentration (mgTNH₃-N/L) limit at different water pH and temperature.

| pH | Water Temperature (°C) | | | | | | | | | | | | | | | |
|-----|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| 6.5 | 14.1 | 13.1 | 12.2 | 11.3 | 10.5 | 9.75 | 9.06 | 8.43 | 7.84 | 7.30 | 6.80 | 6.34 | 5.91 | 5.51 | 5.14 | 4.80 |
| 6.6 | 11.2 | 10.4 | 9.67 | 8.97 | 8.33 | 7.74 | 7.20 | 6.70 | 6.23 | 5.80 | 5.40 | 5.04 | 4.70 | 4.38 | 4.09 | 3.82 |
| 6.7 | 8.93 | 8.28 | 7.68 | 7.13 | 6.62 | 6.15 | 5.72 | 5.32 | 4.95 | 4.61 | 4.30 | 4.00 | 3.73 | 3.48 | 3.25 | 3.04 |
| 6.8 | 7.10 | 6.58 | 6.10 | 5.67 | 5.26 | 4.89 | 4.55 | 4.23 | 3.94 | 3.67 | 3.41 | 3.18 | 2.97 | 2.77 | 2.58 | 2.41 |
| 6.9 | 5.64 | 5.23 | 4.85 | 4.50 | 4.18 | 3.89 | 3.61 | 3.36 | 3.13 | 2.91 | 2.71 | 2.53 | 2.36 | 2.20 | 2.06 | 1.92 |
| 7.0 | 4.48 | 4.16 | 3.86 | 3.58 | 3.33 | 3.09 | 2.87 | 2.67 | 2.49 | 2.32 | 2.16 | 2.01 | 1.88 | 1.75 | 1.64 | 1.53 |
| 7.1 | 3.56 | 3.30 | 3.07 | 2.85 | 2.64 | 2.46 | 2.29 | 2.13 | 1.98 | 1.84 | 1.72 | 1.60 | 1.49 | 1.39 | 1.30 | 1.22 |
| 7.2 | 2.83 | 2.63 | 2.44 | 2.26 | 2.10 | 1.95 | 1.82 | 1.69 | 1.57 | 1.47 | 1.37 | 1.27 | 1.19 | 1.11 | 1.04 | 0.968 |
| 7.3 | 2.25 | 2.09 | 1.94 | 1.80 | 1.67 | 1.56 | 1.45 | 1.35 | 1.25 | 1.17 | 1.09 | 1.01 | 0.947 | 0.884 | 0.826 | 0.772 |
| 7.4 | 1.79 | 1.66 | 1.54 | 1.43 | 1.33 | 1.24 | 1.15 | 1.07 | 1.00 | 0.930 | 0.867 | 0.809 | 0.755 | 0.705 | 0.658 | 0.615 |
| 7.5 | 1.43 | 1.32 | 1.23 | 1.14 | 1.06 | 0.986 | 0.917 | 0.854 | 0.795 | 0.741 | 0.691 | 0.645 | 0.602 | 0.562 | 0.525 | 0.491 |
| 7.6 | 1.13 | 1.05 | 0.98 | 0.91 | 0.844 | 0.785 | 0.731 | 0.681 | 0.634 | 0.591 | 0.551 | 0.515 | 0.481 | 0.449 | 0.420 | 0.393 |
| 7.7 | 0.904 | 0.839 | 0.779 | 0.724 | 0.673 | 0.626 | 0.583 | 0.543 | 0.506 | 0.472 | 0.441 | 0.411 | 0.384 | 0.359 | 0.336 | 0.315 |
| 7.8 | 0.721 | 0.669 | 0.621 | 0.578 | 0.537 | 0.500 | 0.466 | 0.434 | 0.405 | 0.378 | 0.352 | 0.329 | 0.308 | 0.288 | 0.269 | 0.252 |
| 7.9 | 0.575 | 0.534 | 0.496 | 0.461 | 0.429 | 0.400 | 0.372 | 0.347 | 0.324 | 0.302 | 0.283 | 0.264 | 0.247 | 0.231 | 0.217 | 0.203 |
| 8.0 | 0.459 | 0.427 | 0.397 | 0.369 | 0.344 | 0.320 | 0.298 | 0.278 | 0.260 | 0.243 | 0.227 | 0.212 | 0.199 | 0.186 | 0.175 | 0.164 |
| 8.1 | 0.37 | 0.341 | 0.318 | 0.296 | 0.275 | 0.257 | 0.240 | 0.224 | 0.209 | 0.195 | 0.183 | 0.171 | 0.160 | 0.150 | 0.141 | 0.133 |
| 8.2 | 0.294 | 0.274 | 0.255 | 0.237 | 0.221 | 0.206 | 0.193 | 0.180 | 0.168 | 0.158 | 0.148 | 0.138 | 0.130 | 0.122 | 0.115 | 0.108 |
| 8.3 | 0.236 | 0.220 | 0.205 | 0.191 | 0.178 | 0.167 | 0.156 | 0.146 | 0.136 | 0.128 | 0.120 | 0.112 | 0.106 | 0.099 | 0.094 | 0.088 |
| 8.4 | 0.190 | 0.177 | 0.165 | 0.154 | 0.144 | 0.135 | 0.126 | 0.118 | 0.111 | 0.104 | 0.098 | 0.092 | 0.086 | 0.081 | 0.077 | 0.073 |
| 8.5 | 0.154 | 0.143 | 0.134 | 0.125 | 0.117 | 0.110 | 0.103 | 0.096 | 0.091 | 0.085 | 0.080 | 0.075 | 0.071 | 0.067 | 0.064 | 0.060 |
| 8.6 | 0.124 | 0.116 | 0.109 | 0.102 | 0.095 | 0.090 | 0.084 | 0.079 | 0.074 | 0.070 | 0.066 | 0.062 | 0.059 | 0.056 | 0.053 | 0.050 |
| 8.7 | 0.101 | 0.095 | 0.089 | 0.083 | 0.078 | 0.074 | 0.069 | 0.065 | 0.062 | 0.058 | 0.055 | 0.052 | 0.049 | 0.047 | 0.045 | 0.042 |
| 8.8 | 0.083 | 0.078 | 0.073 | 0.069 | 0.065 | 0.061 | 0.058 | 0.054 | 0.051 | 0.049 | 0.046 | 0.044 | 0.042 | 0.040 | 0.038 | 0.036 |
| 8.9 | 0.068 | 0.064 | 0.061 | 0.057 | 0.054 | 0.051 | 0.048 | 0.046 | 0.043 | 0.041 | 0.039 | 0.037 | 0.036 | 0.034 | 0.033 | 0.031 |
| 9.0 | 0.057 | 0.054 | 0.051 | 0.048 | 0.045 | 0.043 | 0.041 | 0.039 | 0.037 | 0.035 | 0.034 | 0.032 | 0.031 | 0.030 | 0.028 | 0.027 |
| 9.1 | 0.048 | 0.045 | 0.043 | 0.041 | 0.039 | 0.037 | 0.035 | 0.033 | 0.032 | 0.031 | 0.029 | 0.028 | 0.027 | 0.026 | 0.025 | 0.024 |
| 9.2 | 0.040 | 0.038 | 0.036 | 0.035 | 0.033 | 0.032 | 0.030 | 0.029 | 0.028 | 0.027 | 0.026 | 0.025 | 0.024 | 0.023 | 0.022 | 0.022 |
| 9.3 | 0.035 | 0.033 | 0.031 | 0.030 | 0.029 | 0.028 | 0.027 | 0.026 | 0.025 | 0.024 | 0.023 | 0.022 | 0.022 | 0.021 | 0.020 | 0.020 |
| 9.4 | 0.030 | 0.029 | 0.028 | 0.026 | 0.025 | 0.024 | 0.024 | 0.023 | 0.022 | 0.021 | 0.021 | 0.020 | 0.020 | 0.019 | 0.019 | 0.018 |
| 9.5 | 0.026 | 0.025 | 0.024 | 0.024 | 0.023 | 0.022 | 0.021 | 0.021 | 0.020 | 0.020 | 0.019 | 0.019 | 0.018 | 0.018 | 0.017 | 0.017 |