



Taseko Prosperity Gold-Copper Project

Appendix 3-7-HH

TAILINGS STORAGE FACILITY (TSF) WATER CHEMISTRY

| END OF YEAR CONCENTRATION | | Year of Operation | | | | | | | | | | | | | | |
|---------------------------|------|-------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 |
| Acidity, Total | mg/L | 36.6 | 31.4 | 26.2 | 22.4 | 19.4 | 16.7 | 14.4 | 12.5 | 11.0 | 9.7 | 8.6 | 7.7 | 6.8 | 6.1 | 5.5 |
| Alkalinity, Total | mg/L | 154 | 140 | 133 | 127 | 123 | 117 | 112 | 108 | 105 | 103 | 102 | 100 | 99 | 99 | 98 |
| Chloride | mg/L | 15 | 13 | 11 | 9 | 8 | 7 | 6 | 6 | 5 | 5 | 4 | 4 | 4 | 3 | 3 |
| Fluoride | mg/L | 0.38 | 0.32 | 0.28 | 0.25 | 0.22 | 0.19 | 0.17 | 0.15 | 0.13 | 0.12 | 0.11 | 0.10 | 0.09 | 0.09 | 0.08 |
| Nitrate, as N | mg/L | 0.313 | 0.227 | 0.174 | 0.134 | 0.104 | 0.081 | 0.064 | 0.051 | 0.041 | 0.033 | 0.026 | 0.022 | 0.018 | 0.014 | 0.012 |
| Nitrite, as N | mg/L | 0.0025 | 0.0029 | 0.0033 | 0.0036 | 0.0038 | 0.0043 | 0.0047 | 0.0050 | 0.0053 | 0.0055 | 0.0056 | 0.0058 | 0.0059 | 0.0060 | 0.0061 |
| Nitrogen, Ammonia as N | mg/L | 0.37 | 0.29 | 0.25 | 0.21 | 0.19 | 0.17 | 0.14 | 0.12 | 0.10 | 0.08 | 0.07 | 0.06 | 0.06 | 0.05 | 0.05 |
| Sulfate, dissolved | mg/L | 1399 | 1214 | 1060 | 944 | 857 | 703 | 579 | 481 | 403 | 340 | 290 | 247 | 210 | 180 | 156 |
| Aluminum, dissolved | mg/L | 0.17 | 0.13 | 0.10 | 0.08 | 0.06 | 0.05 | 0.04 | 0.04 | 0.03 | 0.03 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| Antimony dissolved | mg/L | 0.0248 | 0.0185 | 0.0144 | 0.0113 | 0.0090 | 0.0071 | 0.0057 | 0.0046 | 0.0037 | 0.0030 | 0.0025 | 0.0020 | 0.0017 | 0.0014 | 0.0012 |
| Arsenic, dissolved | mg/L | 0.0159 | 0.0135 | 0.0111 | 0.0093 | 0.0080 | 0.0069 | 0.0059 | 0.0051 | 0.0045 | 0.0039 | 0.0035 | 0.0031 | 0.0027 | 0.0024 | 0.0022 |
| Barium, dissolved | mg/L | 0.053 | 0.042 | 0.035 | 0.029 | 0.025 | 0.021 | 0.018 | 0.015 | 0.013 | 0.012 | 0.011 | 0.009 | 0.009 | 0.008 | 0.007 |
| Beryllium, dissolved | mg/L | 0.0013 | 0.0010 | 0.0009 | 0.0008 | 0.0007 | 0.0006 | 0.0006 | 0.0006 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 |
| Bismuth, dissolved | mg/L | 0.0044 | 0.0033 | 0.0026 | 0.0021 | 0.0017 | 0.0014 | 0.0012 | 0.0010 | 0.0009 | 0.0008 | 0.0007 | 0.0007 | 0.0006 | 0.0006 | 0.0006 |
| Boron, dissolved | mg/L | 0.18 | 0.16 | 0.15 | 0.14 | 0.13 | 0.11 | 0.10 | 0.09 | 0.08 | 0.07 | 0.06 | 0.06 | 0.06 | 0.05 | 0.05 |
| Cadmium, dissolved | mg/L | 0.00079 | 0.00067 | 0.00056 | 0.00047 | 0.00041 | 0.00036 | 0.00031 | 0.00027 | 0.00024 | 0.00021 | 0.00019 | 0.00017 | 0.00016 | 0.00014 | 0.00013 |
| Calcium, dissolved | mg/L | 545 | 472 | 412 | 367 | 334 | 276 | 229 | 193 | 164 | 140 | 122 | 106 | 92 | 81 | 72 |
| Chromium, dissolved | mg/L | 0.0018 | 0.0015 | 0.0013 | 0.0011 | 0.0009 | 0.0009 | 0.0008 | 0.0007 | 0.0007 | 0.0007 | 0.0006 | 0.0006 | 0.0006 | 0.0006 | 0.0006 |
| Cobalt, dissolved | mg/L | 0.0026 | 0.0023 | 0.0021 | 0.0019 | 0.0017 | 0.0015 | 0.0013 | 0.0011 | 0.0010 | 0.0009 | 0.0009 | 0.0008 | 0.0007 | 0.0007 | 0.0007 |
| Copper, dissolved | mg/L | 0.0206 | 0.0210 | 0.0188 | 0.0172 | 0.0160 | 0.0144 | 0.0127 | 0.0114 | 0.0103 | 0.0093 | 0.0085 | 0.0076 | 0.0068 | 0.0062 | 0.0056 |
| Iron, dissolved | mg/L | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 |
| Lead, dissolved | mg/L | 0.00235 | 0.00196 | 0.00161 | 0.00134 | 0.00114 | 0.00098 | 0.00084 | 0.00073 | 0.00064 | 0.00056 | 0.00050 | 0.00044 | 0.00039 | 0.00035 | 0.00031 |
| Lithium, dissolved | mg/L | 0.012 | 0.011 | 0.010 | 0.010 | 0.009 | 0.008 | 0.008 | 0.007 | 0.007 | 0.006 | 0.006 | 0.006 | 0.006 | 0.005 | 0.005 |
| Magnesium, dissolved | mg/L | 55 | 51 | 47 | 45 | 43 | 37 | 32 | 29 | 26 | 23 | 22 | 20 | 19 | 18 | 17 |
| Manganese, dissolved | mg/L | 0.95 | 0.86 | 0.75 | 0.68 | 0.62 | 0.56 | 0.51 | 0.47 | 0.44 | 0.41 | 0.39 | 0.37 | 0.35 | 0.33 | 0.32 |
| Mercury, dissolved | mg/L | 0.0000662 | 0.0000542 | 0.0000449 | 0.0000379 | 0.0000326 | 0.0000285 | 0.0000251 | 0.0000225 | 0.0000203 | 0.0000186 | 0.0000172 | 0.0000159 | 0.0000148 | 0.0000139 | 0.0000132 |
| Molybdenum, dissolved | mg/L | 0.0817 | 0.0686 | 0.0576 | 0.0493 | 0.0431 | 0.0358 | 0.0299 | 0.0252 | 0.0214 | 0.0183 | 0.0158 | 0.0136 | 0.0117 | 0.0102 | 0.0089 |
| Nickel, dissolved | mg/L | 0.029 | 0.026 | 0.022 | 0.019 | 0.017 | 0.015 | 0.013 | 0.012 | 0.011 | 0.010 | 0.009 | 0.008 | 0.007 | 0.007 | 0.006 |
| Phosphorous, dissolved | mg/L | 0.41 | 0.35 | 0.29 | 0.25 | 0.22 | 0.19 | 0.17 | 0.15 | 0.13 | 0.12 | 0.11 | 0.10 | 0.09 | 0.08 | 0.07 |
| Potassium, dissolved | mg/L | 23.95 | 21.56 | 19.37 | 17.73 | 16.49 | 13.72 | 11.49 | 9.73 | 8.33 | 7.19 | 6.29 | 5.51 | 4.84 | 4.30 | 3.87 |
| Selenium, dissolved | mg/L | 0.0084 | 0.0071 | 0.0062 | 0.0055 | 0.0049 | 0.0041 | 0.0034 | 0.0029 | 0.0025 | 0.0022 | 0.0019 | 0.0017 | 0.0015 | 0.0013 | 0.0012 |
| Silver, dissolved | mg/L | 0.00021 | 0.00018 | 0.00015 | 0.00012 | 0.00011 | 0.00009 | 0.00008 | 0.00007 | 0.00007 | 0.00006 | 0.00005 | 0.00005 | 0.00004 | 0.00004 | 0.00004 |
| Silicon, dissolved | mg/L | 9 | 8 | 8 | 8 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| Sodium, dissolved | mg/L | 33 | 30 | 26 | 23 | 21 | 19 | 18 | 16 | 15 | 14 | 13 | 12 | 12 | 11 | 11 |
| Strontium, dissolved | mg/L | 6.31 | 5.52 | 4.86 | 4.37 | 4.00 | 3.28 | 2.70 | 2.25 | 1.89 | 1.59 | 1.36 | 1.16 | 0.99 | 0.86 | 0.75 |
| Thallium, dissolved | mg/L | 0.00040 | 0.00036 | 0.00033 | 0.00031 | 0.00029 | 0.00029 | 0.00029 | 0.00030 | 0.00030 | 0.00030 | 0.00030 | 0.00030 | 0.00030 | 0.00030 | 0.00030 |
| Tin, dissolved | mg/L | 0.002 | 0.002 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Titanium, dissolved | mg/L | 0.021 | 0.018 | 0.016 | 0.014 | 0.012 | 0.012 | 0.011 | 0.011 | 0.011 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 |
| Uranium, dissolved | mg/L | 0.0033 | 0.0029 | 0.0025 | 0.0022 | 0.0020 | 0.0017 | 0.0014 | 0.0012 | 0.0010 | 0.0009 | 0.0008 | 0.0007 | 0.0006 | 0.0005 | 0.0005 |
| Vanadium, dissolved | mg/L | 0.004 | 0.003 | 0.003 | 0.002 | 0.002 | 0.002 | 0.002 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Zinc, dissolved | mg/L | 0.018 | 0.015 | 0.012 | 0.010 | 0.009 | 0.007 | 0.006 | 0.005 | 0.005 | 0.004 | 0.004 | 0.004 | 0.003 | 0.003 | 0.003 |
| Zircon, dissolved | mg/L | 0.0301 | 0.0246 | 0.0198 | 0.0163 | 0.0136 | 0.0115 | 0.0098 | 0.0083 | 0.0072 | 0.0062 | 0.0055 | 0.0048 | 0.0042 | 0.0037 | 0.0032 |

TAILINGS STORAGE FACILITY (TSF) WATER CHEMISTRY

| END OF YEAR CONCENTRATION | | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 |
|----------------------------------|------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Acidity, Total | mg/L | 5.0 | 4.7 | 4.4 | 4.1 | 3.8 | 3.6 | 3.3 | 2.9 | 2.5 | 2.3 | 2.0 | 1.8 | 1.7 | 1.5 | 1.4 |
| Alkalinity, Total | mg/L | 97 | 97 | 97 | 97 | 96 | 96 | 96 | 96 | 96 | 96 | 96 | 96 | 96 | 96 | 96 |
| Chloride | mg/L | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 1 |
| Fluoride | mg/L | 0.08 | 0.08 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 |
| Nitrate, as N | mg/L | 0.010 | 0.008 | 0.007 | 0.006 | 0.005 | 0.004 | 0.004 | 0.004 | 0.003 | 0.003 | 0.003 | 0.002 | 0.002 | 0.002 | 0.002 |
| Nitrite, as N | mg/L | 0.0061 | 0.0062 | 0.0062 | 0.0063 | 0.0063 | 0.0063 | 0.0064 | 0.0064 | 0.0064 | 0.0065 | 0.0065 | 0.0065 | 0.0065 | 0.0065 | 0.0066 |
| Nitrogen, Ammonia as N | mg/L | 0.04 | 0.04 | 0.04 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 |
| Sulfate, dissolved | mg/L | 137 | 122 | 109 | 99 | 88 | 80 | 71 | 58 | 48 | 40 | 33 | 27 | 22 | 19 | 16 |
| Aluminum, dissolved | mg/L | 0.02 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Antimony dissolved | mg/L | 0.0010 | 0.0009 | 0.0007 | 0.0007 | 0.0006 | 0.0005 | 0.0004 | 0.0004 | 0.0003 | 0.0003 | 0.0002 | 0.0002 | 0.0002 | 0.0002 | 0.0002 |
| Arsenic, dissolved | mg/L | 0.0020 | 0.0019 | 0.0017 | 0.0016 | 0.0015 | 0.0014 | 0.0013 | 0.0011 | 0.0009 | 0.0008 | 0.0007 | 0.0006 | 0.0006 | 0.0005 | 0.0005 |
| Barium, dissolved | mg/L | 0.007 | 0.006 | 0.006 | 0.006 | 0.006 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 |
| Beryllium, dissolved | mg/L | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 |
| Bismuth, dissolved | mg/L | 0.0006 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 |
| Boron, dissolved | mg/L | 0.05 | 0.05 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 |
| Cadmium, dissolved | mg/L | 0.00012 | 0.00011 | 0.00011 | 0.00010 | 0.00010 | 0.00009 | 0.00009 | 0.00008 | 0.00007 | 0.00007 | 0.00006 | 0.00006 | 0.00006 | 0.00005 | 0.00005 |
| Calcium, dissolved | mg/L | 65 | 59 | 54 | 51 | 47 | 44 | 40 | 36 | 32 | 29 | 26 | 24 | 22 | 21 | 20 |
| Chromium, dissolved | mg/L | 0.0006 | 0.0006 | 0.0006 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 |
| Cobalt, dissolved | mg/L | 0.0006 | 0.0006 | 0.0006 | 0.0006 | 0.0006 | 0.0006 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 |
| Copper, dissolved | mg/L | 0.0052 | 0.0049 | 0.0046 | 0.0044 | 0.0041 | 0.0039 | 0.0035 | 0.0030 | 0.0026 | 0.0023 | 0.0020 | 0.0018 | 0.0016 | 0.0014 | 0.0013 |
| Iron, dissolved | mg/L | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 |
| Lead, dissolved | mg/L | 0.00029 | 0.00026 | 0.00025 | 0.00023 | 0.00021 | 0.00020 | 0.00019 | 0.00016 | 0.00014 | 0.00012 | 0.00011 | 0.00010 | 0.00009 | 0.00008 | 0.00008 |
| Lithium, dissolved | mg/L | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 |
| Magnesium, dissolved | mg/L | 16 | 16 | 15 | 15 | 15 | 14 | 14 | 14 | 13 | 13 | 13 | 12 | 12 | 12 | 12 |
| Manganese, dissolved | mg/L | 0.31 | 0.30 | 0.29 | 0.29 | 0.28 | 0.28 | 0.27 | 0.26 | 0.25 | 0.25 | 0.24 | 0.24 | 0.23 | 0.23 | 0.23 |
| Mercury, dissolved | mg/L | 0.0000127 | 0.0000122 | 0.0000118 | 0.0000115 | 0.0000112 | 0.0000109 | 0.0000106 | 0.0000102 | 0.0000098 | 0.0000095 | 0.0000093 | 0.0000091 | 0.0000089 | 0.0000088 | 0.0000087 |
| Molybdenum, dissolved | mg/L | 0.0080 | 0.0072 | 0.0065 | 0.0060 | 0.0054 | 0.0050 | 0.0044 | 0.0037 | 0.0031 | 0.0026 | 0.0022 | 0.0019 | 0.0016 | 0.0014 | 0.0012 |
| Nickel, dissolved | mg/L | 0.006 | 0.006 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.004 | 0.004 | 0.004 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 |
| Phosphorous, dissolved | mg/L | 0.07 | 0.06 | 0.06 | 0.06 | 0.05 | 0.05 | 0.05 | 0.04 | 0.04 | 0.03 | 0.03 | 0.03 | 0.03 | 0.02 | 0.02 |
| Potassium, dissolved | mg/L | 3.52 | 3.24 | 3.01 | 2.83 | 2.63 | 2.48 | 2.31 | 2.08 | 1.89 | 1.73 | 1.60 | 1.50 | 1.41 | 1.34 | 1.29 |
| Selenium, dissolved | mg/L | 0.0011 | 0.0010 | 0.0010 | 0.0009 | 0.0009 | 0.0008 | 0.0008 | 0.0007 | 0.0007 | 0.0006 | 0.0006 | 0.0006 | 0.0006 | 0.0005 | 0.0005 |
| Silver, dissolved | mg/L | 0.00003 | 0.00003 | 0.00003 | 0.00003 | 0.00003 | 0.00003 | 0.00003 | 0.00002 | 0.00002 | 0.00002 | 0.00002 | 0.00002 | 0.00002 | 0.00001 | 0.00001 |
| Silicon, dissolved | mg/L | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| Sodium, dissolved | mg/L | 11 | 10 | 10 | 10 | 10 | 9 | 9 | 9 | 9 | 8 | 8 | 8 | 8 | 8 | 8 |
| Strontium, dissolved | mg/L | 0.66 | 0.59 | 0.53 | 0.48 | 0.43 | 0.40 | 0.35 | 0.30 | 0.25 | 0.22 | 0.18 | 0.16 | 0.14 | 0.12 | 0.11 |
| Thallium, dissolved | mg/L | 0.00030 | 0.00030 | 0.00030 | 0.00030 | 0.00030 | 0.00030 | 0.00030 | 0.00030 | 0.00030 | 0.00030 | 0.00030 | 0.00030 | 0.00030 | 0.00030 | 0.00030 |
| Tin, dissolved | mg/L | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Titanium, dissolved | mg/L | 0.010 | 0.010 | 0.010 | 0.010 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 |
| Uranium, dissolved | mg/L | 0.0004 | 0.0004 | 0.0004 | 0.0003 | 0.0003 | 0.0003 | 0.0003 | 0.0002 | 0.0002 | 0.0002 | 0.0002 | 0.0001 | 0.0001 | 0.0001 | 0.0001 |
| Vanadium, dissolved | mg/L | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Zinc, dissolved | mg/L | 0.003 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.001 | 0.001 | 0.001 |
| Zircon, dissolved | mg/L | 0.0029 | 0.0027 | 0.0024 | 0.0023 | 0.0021 | 0.0019 | 0.0017 | 0.0014 | 0.0012 | 0.0010 | 0.0008 | 0.0007 | 0.0006 | 0.0005 | 0.0004 |

TAILINGS STORAGE FACILITY (TSF) WATER CHEMISTRY

| END OF YEAR CONCENTRATION | | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 |
|----------------------------------|------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Acidity, Total | mg/L | 1.3 | 1.3 | 1.2 | 1.2 | 1.1 | 1.1 | 1.1 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| Alkalinity, Total | mg/L | 96 | 96 | 96 | 96 | 96 | 96 | 96 | 96 | 96 | 96 | 96 | 96 | 96 | 96 | 96 |
| Chloride | mg/L | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Fluoride | mg/L | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 |
| Nitrate, as N | mg/L | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 |
| Nitrite, as N | mg/L | 0.0066 | 0.0066 | 0.0066 | 0.0066 | 0.0066 | 0.0066 | 0.0066 | 0.0066 | 0.0066 | 0.0066 | 0.0066 | 0.0066 | 0.0066 | 0.0066 | 0.0066 |
| Nitrogen, Ammonia as N | mg/L | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 |
| Sulfate, dissolved | mg/L | 13 | 11 | 9 | 8 | 7 | 6 | 5 | 4 | 4 | 4 | 3 | 3 | 3 | 2 | 2 |
| Aluminum, dissolved | mg/L | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Antimony dissolved | mg/L | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 |
| Arsenic, dissolved | mg/L | 0.0004 | 0.0004 | 0.0004 | 0.0004 | 0.0003 | 0.0003 | 0.0003 | 0.0003 | 0.0003 | 0.0003 | 0.0003 | 0.0003 | 0.0003 | 0.0003 | 0.0003 |
| Barium, dissolved | mg/L | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 |
| Beryllium, dissolved | mg/L | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 |
| Bismuth, dissolved | mg/L | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 |
| Boron, dissolved | mg/L | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 |
| Cadmium, dissolved | mg/L | 0.00005 | 0.00005 | 0.00005 | 0.00005 | 0.00004 | 0.00004 | 0.00004 | 0.00004 | 0.00004 | 0.00004 | 0.00004 | 0.00004 | 0.00004 | 0.00004 | 0.00004 |
| Calcium, dissolved | mg/L | 19 | 18 | 18 | 17 | 17 | 16 | 16 | 16 | 16 | 15 | 15 | 15 | 15 | 15 | 15 |
| Chromium, dissolved | mg/L | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 |
| Cobalt, dissolved | mg/L | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 |
| Copper, dissolved | mg/L | 0.0012 | 0.0011 | 0.0010 | 0.0010 | 0.0009 | 0.0009 | 0.0009 | 0.0008 | 0.0008 | 0.0008 | 0.0008 | 0.0008 | 0.0008 | 0.0008 | 0.0008 |
| Iron, dissolved | mg/L | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 |
| Lead, dissolved | mg/L | 0.00007 | 0.00007 | 0.00006 | 0.00006 | 0.00006 | 0.00006 | 0.00006 | 0.00006 | 0.00005 | 0.00005 | 0.00005 | 0.00005 | 0.00005 | 0.00005 | 0.00005 |
| Lithium, dissolved | mg/L | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 |
| Magnesium, dissolved | mg/L | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| Manganese, dissolved | mg/L | 0.23 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 |
| Mercury, dissolved | mg/L | 0.0000086 | 0.0000085 | 0.0000084 | 0.0000084 | 0.0000084 | 0.0000083 | 0.0000083 | 0.0000083 | 0.0000083 | 0.0000082 | 0.0000082 | 0.0000082 | 0.0000082 | 0.0000082 | 0.0000082 |
| Molybdenum, dissolved | mg/L | 0.0011 | 0.0009 | 0.0008 | 0.0008 | 0.0007 | 0.0006 | 0.0006 | 0.0006 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0004 | 0.0004 | 0.0004 |
| Nickel, dissolved | mg/L | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 |
| Phosphorous, dissolved | mg/L | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| Potassium, dissolved | mg/L | 1.24 | 1.20 | 1.17 | 1.14 | 1.12 | 1.10 | 1.09 | 1.08 | 1.07 | 1.06 | 1.05 | 1.05 | 1.05 | 1.04 | 1.04 |
| Selenium, dissolved | mg/L | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 |
| Silver, dissolved | mg/L | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 |
| Silicon, dissolved | mg/L | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| Sodium, dissolved | mg/L | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| Strontium, dissolved | mg/L | 0.10 | 0.09 | 0.08 | 0.07 | 0.07 | 0.06 | 0.06 | 0.06 | 0.06 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 |
| Thallium, dissolved | mg/L | 0.00030 | 0.00030 | 0.00030 | 0.00030 | 0.00030 | 0.00030 | 0.00030 | 0.00030 | 0.00030 | 0.00030 | 0.00030 | 0.00030 | 0.00030 | 0.00030 | 0.00030 |
| Tin, dissolved | mg/L | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Titanium, dissolved | mg/L | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 |
| Uranium, dissolved | mg/L | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 |
| Vanadium, dissolved | mg/L | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Zinc, dissolved | mg/L | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Zircon, dissolved | mg/L | 0.0004 | 0.0003 | 0.0003 | 0.0002 | 0.0002 | 0.0002 | 0.0002 | 0.0002 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 |

TAILINGS STORAGE FACILITY (TSF) WATER CHEMISTRY

| END OF YEAR CONCENTRATION | | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 |
|---------------------------|------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Acidity, Total | mg/L | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| Alkalinity, Total | mg/L | 96 | 96 | 96 | 96 | 96 | 96 | 96 | 96 | 96 | 96 | 96 | 96 | 96 | 96 | 96 |
| Chloride | mg/L | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Fluoride | mg/L | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 |
| Nitrate, as N | mg/L | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 |
| Nitrite, as N | mg/L | 0.0066 | 0.0066 | 0.0066 | 0.0066 | 0.0066 | 0.0066 | 0.0066 | 0.0066 | 0.0066 | 0.0066 | 0.0066 | 0.0066 | 0.0066 | 0.0066 | 0.0066 |
| Nitrogen, Ammonia as N | mg/L | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 |
| Sulfate, dissolved | mg/L | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Aluminum, dissolved | mg/L | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Antimony dissolved | mg/L | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 |
| Arsenic, dissolved | mg/L | 0.0003 | 0.0003 | 0.0003 | 0.0003 | 0.0003 | 0.0003 | 0.0003 | 0.0003 | 0.0003 | 0.0003 | 0.0003 | 0.0003 | 0.0003 | 0.0003 | 0.0003 |
| Barium, dissolved | mg/L | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 |
| Beryllium, dissolved | mg/L | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 |
| Bismuth, dissolved | mg/L | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 |
| Boron, dissolved | mg/L | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 |
| Cadmium, dissolved | mg/L | 0.00004 | 0.00004 | 0.00004 | 0.00004 | 0.00004 | 0.00004 | 0.00004 | 0.00004 | 0.00004 | 0.00004 | 0.00004 | 0.00004 | 0.00004 | 0.00004 | 0.00004 |
| Calcium, dissolved | mg/L | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 |
| Chromium, dissolved | mg/L | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 |
| Cobalt, dissolved | mg/L | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 |
| Copper, dissolved | mg/L | 0.0008 | 0.0007 | 0.0007 | 0.0007 | 0.0007 | 0.0007 | 0.0007 | 0.0007 | 0.0007 | 0.0007 | 0.0007 | 0.0007 | 0.0007 | 0.0007 | 0.0007 |
| Iron, dissolved | mg/L | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 |
| Lead, dissolved | mg/L | 0.00005 | 0.00005 | 0.00005 | 0.00005 | 0.00005 | 0.00005 | 0.00005 | 0.00005 | 0.00005 | 0.00005 | 0.00005 | 0.00005 | 0.00005 | 0.00005 | 0.00005 |
| Lithium, dissolved | mg/L | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 |
| Magnesium, dissolved | mg/L | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| Manganese, dissolved | mg/L | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 |
| Mercury, dissolved | mg/L | 0.0000082 | 0.0000082 | 0.0000082 | 0.0000082 | 0.0000082 | 0.0000082 | 0.0000082 | 0.0000082 | 0.0000082 | 0.0000082 | 0.0000082 | 0.0000082 | 0.0000082 | 0.0000082 | 0.0000082 |
| Molybdenum, dissolved | mg/L | 0.0004 | 0.0004 | 0.0004 | 0.0004 | 0.0004 | 0.0004 | 0.0004 | 0.0004 | 0.0004 | 0.0004 | 0.0004 | 0.0004 | 0.0004 | 0.0004 | 0.0004 |
| Nickel, dissolved | mg/L | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 |
| Phosphorous, dissolved | mg/L | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| Potassium, dissolved | mg/L | 1.04 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 |
| Selenium, dissolved | mg/L | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 |
| Silver, dissolved | mg/L | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 |
| Silicon, dissolved | mg/L | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| Sodium, dissolved | mg/L | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| Strontium, dissolved | mg/L | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 |
| Thallium, dissolved | mg/L | 0.00030 | 0.00030 | 0.00030 | 0.00030 | 0.00030 | 0.00030 | 0.00030 | 0.00030 | 0.00030 | 0.00030 | 0.00030 | 0.00030 | 0.00030 | 0.00030 | 0.00030 |
| Tin, dissolved | mg/L | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Titanium, dissolved | mg/L | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 |
| Uranium, dissolved | mg/L | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 |
| Vanadium, dissolved | mg/L | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Zinc, dissolved | mg/L | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Zircon, dissolved | mg/L | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 |

TAILINGS STORAGE FACILITY (TSF) WATER CHEMISTRY

| END OF YEAR CONCENTRATION | | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 |
|----------------------------------|------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Acidity, Total | mg/L | 1.0 | 1.0 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 |
| Alkalinity, Total | mg/L | 96 | 96 | 96 | 96 | 96 | 96 | 96 | 96 | 96 | 96 | 96 | 96 | 96 | 96 | 96 |
| Chloride | mg/L | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Fluoride | mg/L | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 |
| Nitrate, as N | mg/L | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 |
| Nitrite, as N | mg/L | 0.0066 | 0.0066 | 0.0066 | 0.0066 | 0.0066 | 0.0066 | 0.0066 | 0.0066 | 0.0066 | 0.0066 | 0.0066 | 0.0066 | 0.0066 | 0.0066 | 0.0066 |
| Nitrogen, Ammonia as N | mg/L | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 |
| Sulfate, dissolved | mg/L | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Aluminum, dissolved | mg/L | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Antimony dissolved | mg/L | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 |
| Arsenic, dissolved | mg/L | 0.0003 | 0.0003 | 0.0003 | 0.0003 | 0.0003 | 0.0003 | 0.0003 | 0.0003 | 0.0003 | 0.0003 | 0.0003 | 0.0003 | 0.0003 | 0.0003 | 0.0003 |
| Barium, dissolved | mg/L | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 |
| Beryllium, dissolved | mg/L | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 |
| Bismuth, dissolved | mg/L | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 |
| Boron, dissolved | mg/L | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 |
| Cadmium, dissolved | mg/L | 0.00004 | 0.00004 | 0.00004 | 0.00004 | 0.00004 | 0.00004 | 0.00004 | 0.00004 | 0.00004 | 0.00004 | 0.00004 | 0.00004 | 0.00004 | 0.00004 | 0.00004 |
| Calcium, dissolved | mg/L | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 |
| Chromium, dissolved | mg/L | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 |
| Cobalt, dissolved | mg/L | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 |
| Copper, dissolved | mg/L | 0.0007 | 0.0007 | 0.0007 | 0.0007 | 0.0007 | 0.0007 | 0.0007 | 0.0007 | 0.0007 | 0.0007 | 0.0007 | 0.0007 | 0.0007 | 0.0007 | 0.0007 |
| Iron, dissolved | mg/L | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 |
| Lead, dissolved | mg/L | 0.00005 | 0.00005 | 0.00005 | 0.00005 | 0.00005 | 0.00005 | 0.00005 | 0.00005 | 0.00005 | 0.00005 | 0.00005 | 0.00005 | 0.00005 | 0.00005 | 0.00005 |
| Lithium, dissolved | mg/L | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 |
| Magnesium, dissolved | mg/L | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| Manganese, dissolved | mg/L | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 |
| Mercury, dissolved | mg/L | 0.0000082 | 0.0000082 | 0.0000082 | 0.0000082 | 0.0000082 | 0.0000082 | 0.0000082 | 0.0000082 | 0.0000082 | 0.0000082 | 0.0000082 | 0.0000082 | 0.0000082 | 0.0000082 | 0.0000082 |
| Molybdenum, dissolved | mg/L | 0.0004 | 0.0004 | 0.0004 | 0.0004 | 0.0004 | 0.0004 | 0.0004 | 0.0004 | 0.0004 | 0.0004 | 0.0004 | 0.0004 | 0.0004 | 0.0004 | 0.0004 |
| Nickel, dissolved | mg/L | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 |
| Phosphorous, dissolved | mg/L | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| Potassium, dissolved | mg/L | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 |
| Selenium, dissolved | mg/L | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 |
| Silver, dissolved | mg/L | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 |
| Silicon, dissolved | mg/L | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| Sodium, dissolved | mg/L | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| Strontium, dissolved | mg/L | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 |
| Thallium, dissolved | mg/L | 0.00030 | 0.00030 | 0.00030 | 0.00030 | 0.00030 | 0.00030 | 0.00030 | 0.00030 | 0.00030 | 0.00030 | 0.00030 | 0.00030 | 0.00030 | 0.00030 | 0.00030 |
| Tin, dissolved | mg/L | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Titanium, dissolved | mg/L | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 |
| Uranium, dissolved | mg/L | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 |
| Vanadium, dissolved | mg/L | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Zinc, dissolved | mg/L | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Zircon, dissolved | mg/L | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 |

TAILINGS STORAGE FACILITY (TSF) WATER CHEMISTRY

| END OF YEAR CONCENTRATION | | 95 | 96 | 97 | 98 | 99 | 100 |
|----------------------------------|------|-----------|-----------|-----------|-----------|-----------|------------|
| Acidity, Total | mg/L | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 |
| Alkalinity, Total | mg/L | 96 | 96 | 96 | 96 | 96 | 96 |
| Chloride | mg/L | 1 | 1 | 1 | 1 | 1 | 1 |
| Fluoride | mg/L | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 |
| Nitrate, as N | mg/L | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 |
| Nitrite, as N | mg/L | 0.0066 | 0.0066 | 0.0066 | 0.0066 | 0.0066 | 0.0066 |
| Nitrogen, Ammonia as N | mg/L | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 |
| Sulfate, dissolved | mg/L | 2 | 2 | 2 | 2 | 2 | 2 |
| Aluminum, dissolved | mg/L | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Antimony dissolved | mg/L | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 |
| Arsenic, dissolved | mg/L | 0.0003 | 0.0003 | 0.0003 | 0.0003 | 0.0003 | 0.0003 |
| Barium, dissolved | mg/L | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 |
| Beryllium, dissolved | mg/L | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 |
| Bismuth, dissolved | mg/L | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 |
| Boron, dissolved | mg/L | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 |
| Cadmium, dissolved | mg/L | 0.00004 | 0.00004 | 0.00004 | 0.00004 | 0.00004 | 0.00004 |
| Calcium, dissolved | mg/L | 15 | 15 | 15 | 15 | 15 | 15 |
| Chromium, dissolved | mg/L | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 |
| Cobalt, dissolved | mg/L | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 |
| Copper, dissolved | mg/L | 0.0007 | 0.0007 | 0.0007 | 0.0007 | 0.0007 | 0.0007 |
| Iron, dissolved | mg/L | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 |
| Lead, dissolved | mg/L | 0.00005 | 0.00005 | 0.00005 | 0.00005 | 0.00005 | 0.00005 |
| Lithium, dissolved | mg/L | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 |
| Magnesium, dissolved | mg/L | 12 | 12 | 12 | 12 | 12 | 12 |
| Manganese, dissolved | mg/L | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 |
| Mercury, dissolved | mg/L | 0.0000082 | 0.0000082 | 0.0000082 | 0.0000082 | 0.0000082 | 0.0000082 |
| Molybdenum, dissolved | mg/L | 0.0004 | 0.0004 | 0.0004 | 0.0004 | 0.0004 | 0.0004 |
| Nickel, dissolved | mg/L | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 |
| Phosphorous, dissolved | mg/L | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| Potassium, dissolved | mg/L | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 |
| Selenium, dissolved | mg/L | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 |
| Silver, dissolved | mg/L | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 | 0.00001 |
| Silicon, dissolved | mg/L | 7 | 7 | 7 | 7 | 7 | 7 |
| Sodium, dissolved | mg/L | 8 | 8 | 8 | 8 | 8 | 8 |
| Strontium, dissolved | mg/L | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 |
| Thallium, dissolved | mg/L | 0.00030 | 0.00030 | 0.00030 | 0.00030 | 0.00030 | 0.00030 |
| Tin, dissolved | mg/L | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Titanium, dissolved | mg/L | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 |
| Uranium, dissolved | mg/L | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 |
| Vanadium, dissolved | mg/L | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Zinc, dissolved | mg/L | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Zircon, dissolved | mg/L | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 |