**Section 601.101 General Requirements**

a) Owners and official custodians of a public water supply in the State of Illinois must provide, under the Act, Board Rules, and the Safe Drinking Water Act (42 U.S.C. 300f et seq.), continuous operation and maintenance of public water supply facilities to assure that the water is safe in quality, clean, adequate in quantity, and of satisfactory mineral characteristics for ordinary domestic consumption.

b) Finished Water Quality

1) The finished water delivered to any user at any point in the distribution system must contain no impurity at a concentration that may be hazardous to the health of the consumer or that would be excessively corrosive or otherwise deleterious to the water supply. Drinking water delivered to any user at any point in the distribution system must contain no impurity that could reasonably be expected to cause offense to the sense of sight, taste, or smell.

2) Any substance used in treatment must not remain in the water at a concentration greater than that required by good practice. A substance that may have a deleterious physiological effect, or one for which physiological effects are not known, must not be used in a manner that would permit it to reach the consumer.

3) Concentrations of constituents listed in the following chart should not be exceeded in the finished water.

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| --- | --- | --- |
| **Contaminant** | **Secondary MCL** | **Noticeable Effects above the Secondary MCL** |
|  |  |  |
| Aluminum | 0.2 mg/L | colored water |
| Chloride | 250 mg/L | salty taste |
| Color | 15 color units | visible tint |
| Copper  | 1 mg/L | metallic taste; blue-green staining |
| Fluoride | 2.0 mg/L | tooth discoloration |
| Foaming Agents | 0.5 mg/L | frothy, cloudy; bitter taste; odor |
| Iron | 0.3 mg/L | rusty color; sediment; metallic taste; reddish or orange staining |
| Manganese | 0.05 mg/L | black to brown color; black staining; bitter metallic taste |
| Odor | 3 T.O.N. (Threshold Odor Number) | "rotten-egg", musty or chemical smell |
| Silver | 0.1 mg/L | skin discoloration; graying of the white part of the eye |
| Sulfate | 250 mg/L | salty taste |
| Total Dissolved Solids | 500 mg/L | hardness; deposits; colored water; staining; salty taste |

(Source: Amended at 47 Ill. Reg. 7424, effective May 16, 2023)