

Water Quality Standards for Best Designated Usages

| Category of Fresh Water | A - I | A-II | A-III | A-IV |
|---|---|--|--|---|
| Best Usage | Unfiltered Public water supply after approved disinfection | Public water supply with approved treatment equal to coagulation, sedimentation & disinfection. | Not fit for human consumption, Fish & Wildlife Propagation. | Fit for Agriculture, Industrial cooling & process water. |
| Chemical Qualities : Maximum allowable concentration | | | | |
| Toxic Substances | | | | |
| Arsenic (As) | 0.3 mg/l | 0.3 mg/l | 1.0 mg/l | 0.1 mg/l |
| Cadmium (Cd) | 0.01 mg/l | 0.01 mg/l | - | - |
| Chromium (Cr ⁺⁶) | 0.05 mg/l | 0.05 mg/l | 0.05 mg/l | 0.2 mg/l |
| Cyanide (CN) | 0.05 mg/l | 0.1 mg/l | 0.05 mg/l | 0.2 mg/l |
| Lead (Pb) | 0.1 mg/l | 0.1 mg/l | - | 0.1 mg/l |
| Boron (B) | - | - | - | 2.0 mg/l |
| Mercury (Hg) | 0.001 mg/l | 0.001 mg/l | 0.001 mg/l | - |
| Gross alpha activity | 3 PCI/l | 10-9 uc/ml | 3 PCI/l | 3 PCI/l |
| Gross Beta activity | 30 PCI/l | 10-8 uc/m | 30 PCI/l | 30 PCI/l |
| Substances affecting health | | | | |
| Fluoride (F) | 1.5 mg/l | 1.5 mg/l | - | 1.0 mg/l |
| Nitrates (NO3) | 45 mg/l | 45 mg/l | - | - |
| Substances affecting the potability of water | | | | |
| pH | 6.5 to 8.5 | 6.0 to 8.5 | 6.5 to 9.0 | 6.5 to 9.0 |
| T.D.S. | - | T.D.S. | T.D.S. | -. |
| Total Solids | 1500 mg/l. | 1500 mg/l. | -. | - |
| Total Suspended Solids | 25 mg/l | - | - | - |
| Total Hardness (Caco3) | 50 mg/l | - | - | - |
| Total Residual Chlorine | - | - | - | - |
| Electrical conduct at 25. C | - | - | 1000 x 10-6 mhos | 3000 x 10-6 mhos |
| Free Carbon Di Oxide | - | - | 12 mg/l | - |
| Free Ammonical Nitrogen | - | - | 1.2 mg/l | - |
| Oil & Grease | - | - | 0.1 mg/l | - |
| Pesticides | - | - | 0.02 mg/l | - |
| Biotic Index | - | - | 6.0 mg/l | - |

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|---|---|--|
| Best Usage | Unfiltered Public water supply after approved disinfection | Public water supply with approved treatment equal to coagulation, sedimentation & disinfection. |
| Total Ammonical Nitrogen | 1.5 mg/l | 1.5 mg/l |
| Chlorides (Cl) | 600 mg/l | 600 mg/l |
| Sulphates | 400 mg/l | 400 mg/l |
| Copper (Cu) | 1.5 mg/l | 1.5 mg/l |
| Manganese (Mn) | 0.5 mg/l | 3.0 mg/l |
| Iron (Fe) | 1.0 mg/l | 5.0 mg/l |
| Sodium | - | - |
| Zinc (Zn) | 15.0 mg/l | 1.5 mg/l |
| Phenolic Compounds | 0.002 mg/l | 0.002 mg/l |
| Alkyl Benzene sulphates | 1.0 mg/l | 1.0 mg/l |
| Mineral Oil | 0.3 mg/l | 0.3 mg/l |
| Ammonia | 1.5 mg/l | 1.5 mg/l |
| B.O.D. (5 days 20 . C) | 2.0 mg/l(Monthly average of atleast 10 samples) | 5.0 mg/l(Monthly average of atleast 10 samples) |
| C.O.D. | - | - |
| D.O. | Not less than 5 mg/l(Monthly average of 100 samples) | 4.0 mg/l |
| Bacteriological Standards : (MPN/100) | Coliform Bact. 250 | Not greater than 5000 |
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