

APPENDIX

Appendix A Standards for drinking water

Table A1 Standards for drinking water, Department of Health, Ministry of Public Health for drinking water in rural area³⁰

| Order | Maximum acceptable concentration |
|--|----------------------------------|
| 1. Physical properties | |
| -Color, Pt-Co unit | 15 |
| -Turbidity, NTU | 10 |
| -Taste | accepted |
| -Odor | accepted |
| -pH | 6.5-8.5 |
| -Conductivity, $\mu\text{S}/\text{cm}$ | 700 |
| 2. Chemical properties(mg/l) | |
| -Iron | 0.50 |
| -Manganese | 0.30 |
| -Copper | 1.0 |
| -Zinc | 3.0 |
| -Total hardness (as CaCO_3) | 500 |
| -Calcium | 75 |
| -Magnesium | 50 |
| -Sulfate | 250 |
| -Chloride | 250 |

Table A1 (continued)

| Order | Maximum acceptable concentration |
|--|----------------------------------|
| -Fluoride | 0.7 |
| 3. Toxic substances(mg/l) | |
| -Mercury | 0.001 |
| -Lead | 0.03 |
| -Arsenic | 0.01 |
| -Selenium | 0.01 |
| 4. Chemical indicators of pollution | |
| indicator (mg/l) | |
| -Chemical oxygen demand (COD) | 10 |
| -Biochemical oxygen demand (BOD) | 6 |
| -Total nitrogen exclusive of NO ₃ | 10 |
| -Coliform bacteria (MPN/100ml) | 10 |

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- Jaruwat, P., Watanesk, S., “A Comparative Study of Spectrophotometric Methods for Determination of Fluoride for Fabricating a Simple Fluoride Test Kit” in *Postgraduate Education and Research Program in Chemistry Congress IV*, Pattaya, Chonburi, Thailand, 2005.