

Effects of Chlorination on THMs Formation in Raw Water

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摘要.

Abstract

This research work investigated the effects of chlorination on THMs formation and correlations among chlorine demand and other water quality parameters. Bromo-substitution was found to interfere with the chlorine competition and affected the formation of CHB₂C₁ during the higher chlorine dose reaction. A statistical THMs model in terms of chlorine contact time, residual chlorine, TOC and UV₂₅₄ was successfully developed. COD (and TOC) denoting organics compounds, total count representing microorganism and NH₃ (and/or Mn) indicating inorganic ions are the principle factors affecting the chlorine demand.