

## عنوان مقاله:

Natural Organic Matter Removal from Raw Surface Water

## محل انتشار:

هفتمین سمینار بین المللی مهندسی رودخانه (سال: 1385)

تعداد صفحات اصل مقاله: 8

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## خلاصه مقاله:

Experimental measurements were conducted to determine the level of Natural organic matter (NOM) and its disinfection by-products formation potential (DBPFP) for Tigris River water in Baghdad. The results showed that raw water total organic carbon (TOC) levels have a potential to produce concentration of trihalomethane (THM) exceeding the USEPA guideline of 80 µg/l during most of the year. At TOC concentration of 2.2 mg/l GAC system showed a , relatively , low carbon usage rate of 43 mg GAC per liter water treated. Enhanced coagulation showed TOC removal efficiency of 18% and 23% with aluminum sulfate or ferric chloride respectively and without initial pH reduction. Removal efficiency increased to 22% and 24% when initially pH was reduced to 6.5 pretreatment with EC with a prior . pH reduction to 6.5 had increased the GAC bed life by 59%

## کلمات کلیدی:

Surface water , activates carbon , enhanced coagulation

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/12885>

