Evaluating the Effectiveness of Ceramic Filters for Third World Applications

The Birmingham Water Works Board (BWWB) and TrueWater International (TWI) have collaborated to develop the following study. TWI has developed a ceramic, candle filter for use in third world countries, specifically the Dominican Republic. Many man hours went into creating a filter with the correct composition of clay, grog, sand, and other materials to produce an acceptable flow rate according to the World Health Organization (WHO) standards. Once this step was complete, the filters were treated with silver nitrate and re-fired in preparation for the next round of testing. Testing of the effectiveness of the silver nitrate for disinfection purposes is ongoing. All samples are being evaluated by the BWWB for turbidity, pH, temperature, E-coli, and heterotrophic plate counts.

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