

BELT FILTER PRESS FILTRATE SOLIDS REMOVAL

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ABSTRACT

Belt Filter Presses (BFPs) are commonly used to dewater municipal biosludges because they are simple, relatively low in capital cost, and continuous. Unfortunately, they only capture about 95% of the solids so the filtrate is quite dirty; and the open belts that are employed require copious washing to prevent blinding. In some industrial applications, this filtrate contains too many fine solids for downstream processing or recycle. Cartridge filters would blind too frequently so other clarification options are required. This paper describes a number of technologies that were tested for clarification of a typical industrial belt press filtrate.