

Submerged Filtration

Earthgard Inc. has just commenced testing (September, 2004), the concept of submerged filtration as a competitive product to submerged membranes. The concept utilizes the same approach as the typical pressure R3F filtration technology where a media is fixed in a bed. In the submerged case, however, the bed is submerged in a clarifier or biological reactor for the purposes of concentrating solids in the reactor or alternatively rejecting any pin floc that may occur in typical clarifiers. As the media becomes contaminated or bio fouled the media can be managed either in situ or alternatively fluidized and removed for cleaning and replaced without ever removing the filter process unit itself. If there is a desire to build a bio film, the media can be “fed” to encourage biological growth via aeration or other means.

2. Submerged or Contact Clarification

