

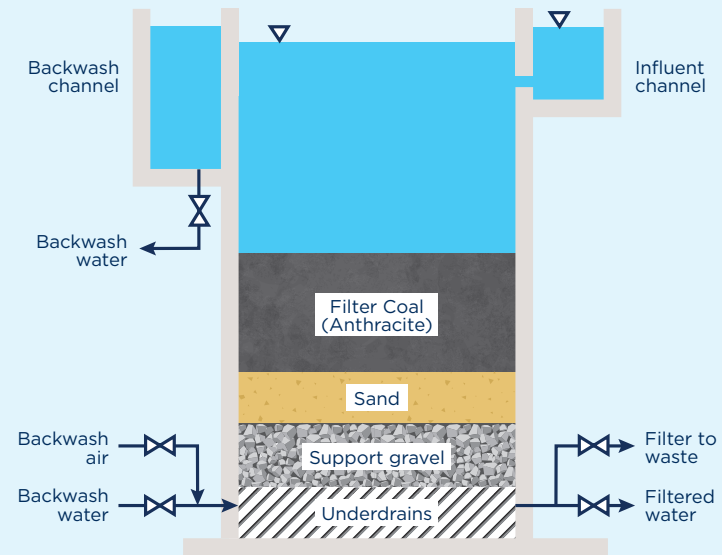
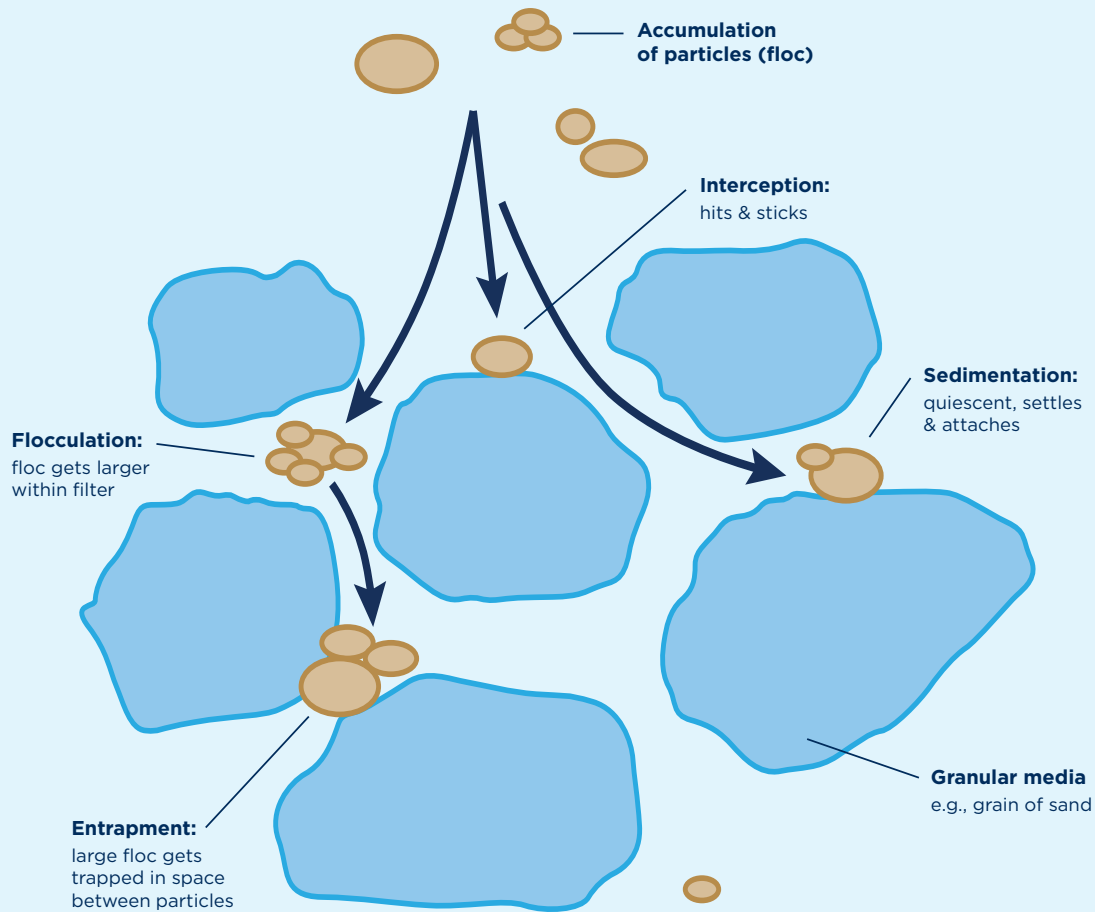


Pre-treatment filtration



Once large materials have been removed, the seawater is transferred to our pre-treatment filtration facility.

Here the seawater is filtered and cleaned thoroughly. Solid material, such as algae and small dirt particles, are removed by our dual media filters where seawater is filtered through layers of filter coal and sand to make it as clean as possible for the reverse osmosis process.



Any solid material is caught in the tiny gaps between the layers of coal and sand. Periodically, the filter is backwashed using air and water to help remove trapped flocs.

Did you know?

The art of filtration was known to early humans, who obtained clear water from a muddy river by scooping a hole in the sand on a river bank to a depth below the river water level. Clear water filtered by the sand would trickle into the hole. A variation of this process on a larger scale is used here and is also commonly used to purify dam and river water for Sydney.