

Process Water Treatment

Food & Beverage | Reference: Dairy, Germany

Client

The Dairy, located in the South of Germany, is one of the leading German private label providers. The company develops and produces dairy products and fruit beverages for the German and European markets, processing more than 200 million kg milk per year. Environmentally friendly production processes are part of the corporate philosophy.



Benefits

The **BERKEFELD PurBev®** hygienic standard is based on the expertise of our engineers specializing in beverage water solutions. It takes into account both legal requirements and international standards & directives applicable to beverage water production.

- Optimum product quality & product safety
- Maximum system availability
- Economical operation
- Reduced chemicals, water & energy consumption

Assignment

The client invests in new production facilities in order to double its capacity. As part of this expansion program a new water treatment plant was required in order to treat up to 120 m³/h of well water to drinking water according to the German mineral and table water regulation (MTVO).

Solution

Veolia delivered a three stage treatment plant: well water is first aerated in order to oxidize dissolved iron or manganese which is then removed by two **BERKEFELD PurBev® Media Filters**, each with a capacity of up to 60 m³/h. A downstream high-quality trap filter prevents leaking of abrasion into the product water.

Treatment Process	Main Component
Oxidation of dissolved iron & manganese	Aeration Unit
Removal of iron & manganese	BERKEFELD PurBev® Media Filter
Retention of particles > 5µm	Trap Filter (2 Bag Filters)
Tank for treated water	Storage Tank



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Process Description

