

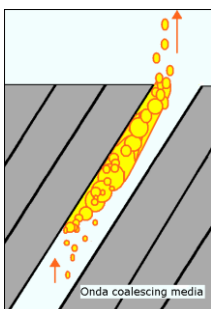
## BFK Water Treatment Plant Summary



The water treatment plant shown above is designed to treat effluent so that it may be safely discharged to foul sewer.

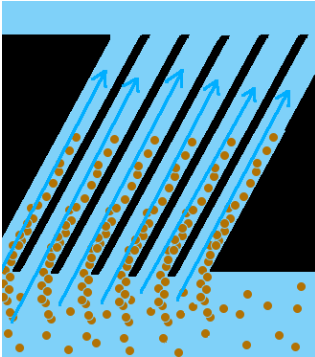
The plant handles flows up to 40,000 litres per hour of water with high pH and high levels of rapidly settling suspended solids.

There is a simple facility for the flocculation of light normally non-settling or slow settling solids and a coalescing section in order to separate oils by making small droplets of oil to join together into larger ones so that they will float to the surface where they can be adsorbed by an oil soak boom.





The coalescing media acts in the same way as a lamella separator every cubic metre of media provides an equivalent settlement area of 145 square metres. There are 2.6 cubic metres in this plant with an equivalent area of approximately 355 square metres.



The pH is reduced by means of an automated CO<sub>2</sub> treatment system. This method of control has the advantage of not requiring acid to be stored on site and even if severely overdosed the pH will not be reduced below 6.

There is a water storage tank at the end from which the water may be pumped to foul sewer or reused on site.

The discharged water will have a neutral pH and low suspended solids. It will be suitable for washing down equipment, and dust suppression. If there is a need for further utility it is possible to bolt on a Spruce filter which subject to monitoring will provide treated water suitable for use in the cooling system.