

CAF[®] CASE STUDY



Dairy

Problem:

The Dairy Plant was experiencing difficulties with their waste activated treatment plant due to overloading.

Solution:

After a very successful trial, the customer installed a Hydrocal CAF to remove as much of the suspended solids, fats, oils and greases (up to 95 - 98%) as necessary to stabilize the biological plant.

The CAF 25 and balance tank were installed prior to the waste activated treatment plant. Typical reductions were averaging 98% for suspended solids and 70% for COD and BOD.

However, it was not necessary to reduce the loading to the waste activated treatment plant by this much as it would upset the food intake for the bacteria. The system was already programmed to automatically reduce the loading at high peaks. The final effluent leaving the waste activated treatment plant is 10-PPM BOD and 10-PPM SS.



CAF-25 Installed above bio-system.



Removal of solids.



Clear effluent discharge.

Current plant levels are as follows:

	<u>BOD</u> (ppm)	<u>SS</u> (ppm)
Maximum plant design limits at 200,000 GPD	2,000	510
Inlet to HydroCal System	3,260	740
Outlet from HydroCal System	1,300	150
Final discharge from waste activated plant	10	10

Note: Greater reductions can be achieved by using additional polymer at a cost of approximately \$30 per day.

The Solution is Clear.

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