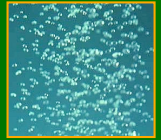


Pollution Control (UK) Ltd

Designers & Suppliers of Effluent Management Technologies

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Case Profile – Vegetable Processor Client – Simply Fresh Foods

Project Background

Simply fresh foods are an independent manufacturer of quality prepared/chilled vegetable products in the form of stir fry meals, accompaniments, snacks, sauces etc.

A new manufacturing facility was built following the destruction by fire of the original facility in 2006. The effluent from the original facility went to sewer without any treatment and the company paid the effluent charges to the water company based on the 'Mogden Formula'. Pollution control (UK) Ltd. were able to demonstrate to the Directors that by on site reduction of the suspended solids (average 370mg/litre) and COD (average 2750mg/litre), significant savings could be made. Trials suggested that the capital cost of the treatment system could be repaid in 18 months to 2 years.



Project Scope

Pollution Control (UK) Ltd were commissioned to design, manufacture and install a complete effluent system that would achieve this reduction in suspended solids and COD. The system consisted of an inlet pump chamber, gross solids screening (which now produces a sellable commodity), primary settlement/balance tank, ECO-SAF biological treatment module and a lamella clarifier.

Results

Within 5 weeks of commissioning of the system the suspended solids was reduced by an average of 79% and COD by an average 74% (which will improve with the build up of the biomass). Taking into account maintenance and running costs these reductions will allow the capital cost to be recovered within the timescale proposed.

Case Profile – Egg Processing Plant

Project Background

the client is a major UK producer of added value egg products in the form of liquids and powder. Due to a significant increase in production (which was due mainly to importing new businesses on to the site). The existing effluent treatment system was being overloaded causing breaches in discharge consents to sewer, to ease the pressure on the effluent system some of the effluent was tankered off site for treatment at considerable cost to the company. Timescale was important to them due to this high cost, the urgent concern of the company was the reduction in COD loading in the effluent before discharge to sewer as this would bring them back into consent and keep all treatment on site.



Project Scope

Pollution Control (UK) Ltd was contracted to supply and install two 46m³ ECO-SAF biological treatment module and a 15m³ upward flow clarifier. The complete system was manufactured and installed in four weeks from receipt of instruction. This addition would significantly increase the onsite capacity of the effluent plant.

Results

The system was given a tough target of removing 3kg of BOD/m³ of media/day. This is about 25% more than was expected of the system. The system completely out performed all expectations and was able to remove **4kg of BOD/m³ of media/day**. This result was truly outstanding and enabled the client to discharge high quality effluent as well as making considerable savings on water utility costs.

Your Effluent Need Not Cost The Earth