

## **TPS Filtration Ltd**

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### Background

The Leading Brewing Company uses city water as the main water source in the production of beverages. While this water quality is good the amount of solids as well as the chemical, and organic characteristics of the water vary. This variation makes it difficult, if not impossible, to achieve the required consistent taste in the finished beverage from one production run to the next.

Faced with the continuing need to reduce costs a soft drink bottler in Ireland turned to TPS Filtration to evaluate their existing filtration system and make recommendations for improvements.

### Solution

The existing filtration system consisted of a sand filter followed by a carbon filter and then a series of three cartridge filters rated at 20, 6 and 2 microns. The problem was that the cartridges had to be frequently changed, because of solids loading, making the system very expensive to run. The 20 and 6 micron cartridges had to be changed every 9-10 days and the 2 micron cartridge every 1-2 days. The customer was thinking of replacing the 2 micron cartridges with a UV Light Sterilizing system.

Tests with a series of Eaton's cost effective LOFCLEAR™ 500 Series Filter Bags installed in MAXILINE™ Multi-Bag Housings proved very effective.

The bag filters provided the same or better quality water with better filtration efficiency than the 20 and 6 micron cartridge filters and they had a longer service life, up to 24 days. Trials also showed that a UV light system would be a cost effective replacement for the 2 micron cartridges.

### Results

TPS Filtration Ltd demonstrated to the customer that the recommend bag filtration system could produce the same or better quality water than the existing cartridge filtration. The annual operating costs would be reduced by £25,000.00 and that the payback on the cost of the new MAXILINE Filter Housings would be just 18 months.

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