



TREATMENT OF CONTAMINATED IRRIGATION WATER FOR AGRICULTURE



Filtersafe Case Study

BACKGROUND & CHALLENGE

The world's greatest threat to banana production is the spread of the fungus Foc-TR4 that causes Fusarium wilt or (Panama disease). The soil-dwelling fungus, which can survive for decades, cannot be controlled using fungicides and cannot be eradicated from soil using fumigants. The United Nations' Food and Agriculture Organization (FAO) has called on banana-producing countries to step up monitoring and reporting, and to contain suspected incursions to prevent the fungus from getting established.

FILTERSAFE SOLUTION

Filtersafe, in partnership with Bloom-Agro, offer the only successful irrigation water solution that prevents fungus contamination, reduces extremely high TSS & organic loads without additional pre-treatment. The four-step solution includes: Settling Reservoir, Mechanical Filtration, Disinfection and Contact Time. Mechanical filters, that remove particles larger than 25 µm and residual organic matter, have been installed in more than 30 different sites. The solution currently provides up to 99% reduction of TSS and Turbidity levels, and efficiently traps all solid particles with a 98% removal rate.

Product	SINGLE/COMPACT & MULTI FILTERS From 3" up to 24",
Filtration degree	25 µm, patented 4 layered Smartweave™ screen
Flow rate	From 60 m ³ /h to 1600 m ³ /h
Installation Date	2016-2020

INDUSTRY

Agriculture

LOCATION

Philippines

APPLICATION

Rivers & Reservoir

FILTERSAFE

- 30 years filtration experience
- 3000+ installations
- 10 microns upwads & 50-5,000 m³/hr.
- Modular filter technology

BENEFITS TO CUSTOMER

- Smaller footprint compared to conventional filters
- Superb cleaning efficiency with minimal downtime using patented technology and screen design
- Low power consumption (2 bar inlet pressure)
- Low discharge of backwash wastewater

