

# CONSTRUCTED WETLAND SYSTEM FOR TREATMENT OF WASTEWATER OF WINERY CECCHI & F.



## ORIGINAL NEED

The plant treats wastewater from working activities of the winery.



## DESCRIPTION

The depuration system consists in a primary treatment with Imhoff septic tank, followed by two stages. The first stage is an horizontal subsurface flow basin; the second stage is a free water surface system. The total useful area is 1330 m<sup>2</sup>. Treated water is reused for irrigation.



Data relative to the functionment of the plant, together with a comparison with results obtained in constructed wetland plants for the treatment of wastewater of wineries, are available in the following scientific publication:

[2002 - Atti del 8° congresso internazionale del gruppo specialistico IWA sull'utilizzo di macrofite per il controllo dell'inquinamento delle acque, Arusha, Tanzania, settembre 2002. "Winery High Organic Content wastewaters treated by constructed wetlands in Mediterranean climate " - vol.1, pp. 274-282](#)

## LOCATION

Municipality of Castellina  
in Chianti  
Province of Siena  
Tuscany  
Italy

## COMMITTANT

Casa Vitivinicola Cecchi e  
F. - Dott.ssa Miria Bracali

## NUMBER OF PERSON EQUIVALENT

730

## WASTEWATER TYPOLOGY

Agro-industrial (high  
organic load)

## PLANT TYPOLOGY

SFS-h + FWS

## AREA (M2)

1330

## YEAR OF REALIZATION

2001

