



Widespread introduction of constructed wetlands  
for a wastewater treatment of Agro Pontino

LIFE+08 ENV/IT/000406

## CONSORTIUM FOR THE LAND RECLAMATION OF THE "AGRO PONTINO"

### ACTION 8.2

## GUIDELINES FOR ACTIONS ON DRAINAGE CANALS

Partner:



## GUIDELINES FOR ACTIONS ON DRAINAGE CANALS

<sup>1</sup>The Action 8.2 consists in “the Guidelines for actions on drainage canals of the Pontine Plain” and is included in the set of actions 8: “Environmental Regeneration Programme through widespread introduction of constructed wetlands”.

The Guidelines, in an advanced stage of development, address specific topics.

### Hydraulic and Environmental Characterisation of Basins

This phase is carried out through the actions 6.4 (CBAP’s Geodatabase) and 7.2 (Analysis of features of the hydrographic network) and deals with issues related to hydraulics, agronomics and forestry.

In addition to these, further issues that are considered strategic for the correct development of the work:

- Preservation and improvement of shelterbelts;
- Management of vegetable biomasses deriving from canal maintenance.

### Technical and operational criteria for the management and maintenance of the hydrographic network

The technical and operational criteria have been subdivided as follows:

- Planning of interventions on surface waters through constructed wetlands;
- Guidelines for structural works;
- Guidelines for the maintenance and management of the drainage network.

These systems are predominantly artificial or artificialised, in any case there are some priority objectives to be set, related to the different functions that a watercourse, even if artificial, must ensure:

- hydraulic and hydrogeological functionality;
- ecological and environmental functionality;
- social and economic functionality;

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<sup>1</sup> This document is a summary of the Italian version.

- leisure and entertainment functionality.funzionalità fruizionale e ricreativa.

### **Identification of Agricultural Best Practices and construction of help boards for farmers**

In addition to the Guidelines, a set of best practices is targeted to farmers in order to keep the diffuse sources of trophic substances (nitrogen and phosphorus) under control, and to achieve a sustainable use of soils. These best practices have been identified and calibrated in the light of the characteristics of farms and livestock activities, and analysed during specific technical meetings. They are oriented to the activation of processes of widespread natural purification, to be achieved through the conservation of the self-purification capacity of plants and soils, and through the ecological maintenance of the minor hydrographic network, i.e. the system of ditches and drains running through and between farms and not falling under CBAP's responsibility.

The development of best practices also takes into account the results of Action 14 (Pilot Project 4 – Good practices in the "Casale del Giglio" farm).



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