



BIOAQUAE

Biodiversity Improvement of Aquatic Alpine Ecosystems

Losere Lake, Orco Valley - Photo: Stefano Brighenti

ACTIONS TO IMPROVE THE QUALITY OF HIGH ALTITUDE AQUATIC ENVIRONMENTS



One of the actions of the **LIFE+ BIOAQUAE** project aims at the creation of two eco-compatible systems for **cleansing wastewaters** originating from pastureland of Pian del Nivolet and from Pontese mountain hut. The technique used, called **phytodepuration**, reduces the excess of organic substances that can cause anoxia in aquatic ecosystems.

Wastewaters are forced through a passage with **plants and minerals**, whose action

purifies them and bring them back to the environment with **reduced content of organic substances**. The two experimental systems have been built during summer 2015 but are not easy to identify as they are well **integrated** in the landscape: each plant looks like a fenced grassland.

Below the grass wastewaters are collected and guided to the plant through a system of **draining trenches**

and **underground pipes** with low impact on the environment.

The efficacy of the two plants will be monitored from summer 2016 by means of **chemical and physical analysis** of waters and **biodiversity sampling**.

www.bioaquae.eu/index.php/en



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