

Eco-AlpsWater

Innovative Ecological Assessment and Water Management Strategy
for the Protection of Ecosystem Services in Alpine Lakes and Rivers

Priority 3: Liveable Alpine Space. SO3.2 - Enhance the protection, the
conservation and the ecological connectivity of Alpine Space

Deliverable D.T2.2.2

Documentation of local meetings and recommendations for the tuning of approaches

Project Eco-AlpsWater

Work Package WP2

Activity A.T2.2

Deliverable D.T2.2.2

Version 1.0

Date 31 December 2018

Authors Camilla Capelli, Fabio Lepori

Revisions / Date –

Abstract

The output of the deliverable D.T2.2.2 consisted of a report of the recommendations for the tuning of the approaches provided by Project Partners (PPs), Observers and Stakeholders, in response to pilot activities carried out in the test-phase of the project (interaction with WPT1 and WPT3).

Pre-sampling activities were based on protocols for the environmental DNA (eDNA) sampling in lakes and rivers developed in WPT1 and were carried out in a set of key lakes and rivers. The pre-sampling activities and the resulted draft sampling protocols for biofilm, plankton, and fish were presented to the PPs during Eco-AlpsWater local meeting at Milan (IT) and at Mondsee (A). The protocol workflow was displayed through two short movies shot on Lake Geneva (F) and was demonstrated through simulated activities in laboratory during the meeting on Lake Mondsee. Moreover, PPs collected feedback from Observers and Stakeholders (e.g. local and regional public authority) during local meeting (WPT3).

Each PP provided documents on the traditional national monitoring methods with detailed information about sampling and analysis of biological quality elements (BQE), according to Water Framework Directive 2000/60/EC-EU WFD, Water Protection Ordinance-WPO 1998. The protocol workflow was designed to be consistent with traditional methods in the alpine region and was implemented after feedback of PPs, collected from Observers and Stakeholders during local meeting. Different technical aspects were resumed and discussed for each protocol, however the common objective of the tuning of eDNA sampling plan with traditional monitoring activities was a harmonic integration with a sustainable effort for each PP. Therefore, innovative protocols will be adapted to the local site condition and historical dataset for each pilot sites.