

WP7-Action 7.2

Cordevole new data list

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version 2.0

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Summary

SHORT DESCRIPTION

This document intends to resume the new data to be collected in order to complete the definition of the indicators for MCA analysis

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Introduction

This document resumes the list of new data that will be collected during the SHARE project period, in order to define all the indicators chosen for the MCA analysis

New data

The data sets that will be collected during the SHARE project period are substantially of the same kind of those which are already available.

The main difference stands for the environmental indicators, for which the sampling frequency is increased. In these sections a new kind of data concerning the macrophytes, never collected before on the Cordon stream, has been inserted.

Table 1: Cordevole (Rio Cordon stream) pilot case study new data list

TYOLOGY	DATA/STATION	DATA PROPERTY	SURVEYED PERIOD	SAMPLING FREQUENCY	RELATED MCA INDICATOR
Economy	Mean daily production	BIM	2010 - 2012	Daily	All the economic indicators
Hydromorphology	Discharge				
	Rio Cordon (upstream)	ARPAV	2010 - 2012	Hourly	IQM – IARI
	Rio Cordon (downstream)	BIM	2010 - 2012	Hourly	IQM – IARI
	Water level				
	Rio Cordon (upstream-downstream)	ARPAV	2010 - 2012	Hourly	IQM - IQH
Chemistry	Temperature	ARPAV	2010 - 2012	Monthly	IQM - IQH
	pH	ARPAV	2010 - 2012	Monthly	/
	BOD ₅	ARPAV	2010 - 2012	Monthly	LIM
	COD	ARPAV	2010 - 2012	Monthly	LIM
	Escherichia Coli	ARPAV	2010 - 2012	Monthly	LIM
	Nutrients	ARPAV	2010 - 2012	Monthly	LIM – LIMeco
	O ₂	ARPAV	2010 - 2012	Monthly	LIM – LIMeco
	N ₂	ARPAV	2010 - 2012	Monthly	LIM – LIMeco
	P	ARPAV	2010 - 2012	Monthly	LIM – LIMeco
	Pollutants	ARPAV	2010 - 2012	Monthly	RQE
Environment	Macrobenthos	ARPAV	2010 - 2012	Twice a year	IBE
	Macrobenthos	ARPAV	2010 - 2012	Twice a year	MacrOper

Environment	Fish Fauna	ARPAV	2010 - 2012	Twice a year	ISECI
	Fish Fauna	ARPAV	2010 - 2012	Twice a year	Quantitative analysis
	Macrophytes	ARPAV	2010 - 2012	Twice a year	IBMR
	IFF**	ARPAV	2010 - 2012	Yearly	IQM

** Evaluated only along the main Cordevole River channel

The chemical & environmental data were recovered (Fig. 1), in the 2011 field surveys, upstream and downstream ARPAV discharge measurement station, downstream BIM withdrawal point and downstream BIM restitution point (Fig. 2):

- ST_01 – 100 m upstream ARPAV monitoring station, along the Cordon stream (1775 m a.s.l.).
- ST_02 – 50 m downstream ARPAV monitoring station (1740 m a.s.l.).
- ST_03 – 100 m downstream BIM withdrawal point (1635 m a.s.l.).
- ST_04 – downstream restitution point, 180 m upstream river confluence (1440 m a.s.l.).

Fig. 1: chemical and biotic field surveys along the Cordon stream (2011)



Figure 1: Cordon stream; chemical & environmental data field surveys of 2011

