



Strengthening the Scientific Foundation of Water Quality Programs

Project Number: **LIFE08 ENV /CY / 000460**

Deliverable Number: **D1.4**

Deliverable Name: **Stream Flow network for the Kalo Horio catchment**

Dissemination Level		
PU	Public	X
PP	Restricted to other program participants (including the Commission Services)	
CO	Confidential, only for members of the Consortium (including Commission Services)	

From Deliverable 1.2 where it is described what data have been requested from the different Public Services, the following document explains what data have been received as also, what extra work has been done in order to run the software without any problems.

The stream network for Cyprus was received form the Water Development Department on a digitizing scale 1:500 000. (Figure 1)

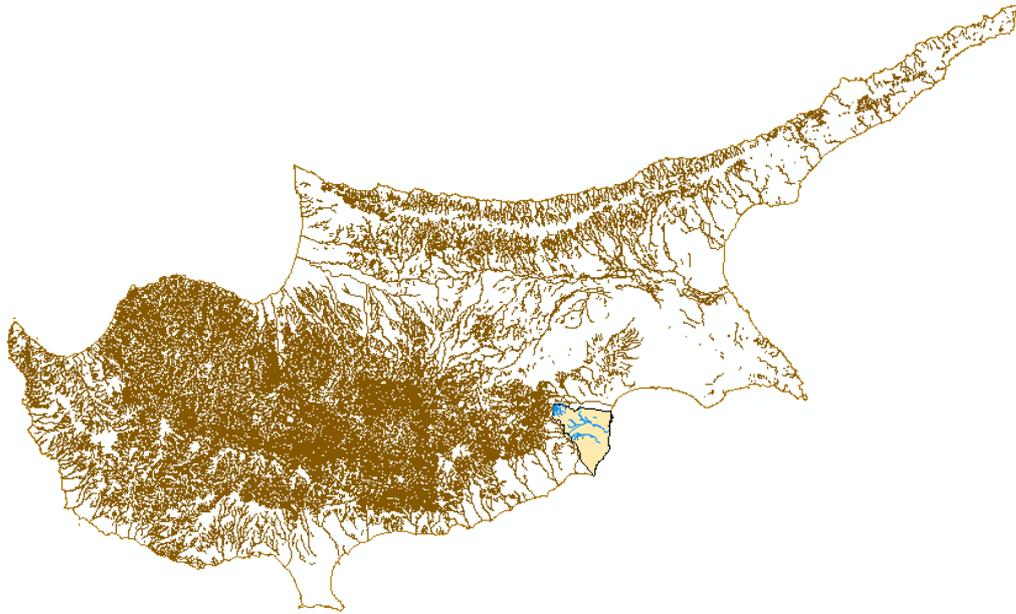


Figure 1: Cyprus River/Stream network

Although on a large scale it looks quite detailed, when zoomed to the Catchments scale it had various problems. The main problem is that t stream network must have continuity. As shown below on a scale 1:50 000 (Figure 2).

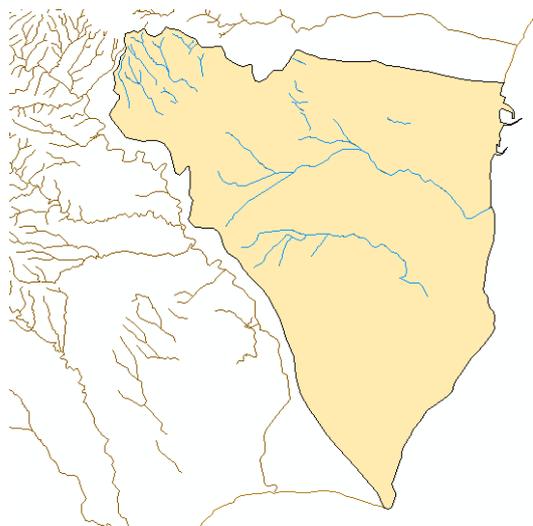


Figure 2: Catchment Stream Network

This problem urged the project team to redesign the the stream network shapefiles. For this purpose, the shapefiles provided by the WDD were corrected through desk work which consisted mainly of digitising hydrological maps and adding metadata fields to the GIS input files.

In addition, field work was undertaken by ACC personnel in order to obtain missing information concerning the stream network. This information concerned the slope and cross sectional shape of streams. To support this effort, a laser distance and slope meter had to purchased. Specifications and pictures of the equipment are shown in Deliverable 1.1, Annex 1. An example of the results of the fieldwork are provided below. (Figure 3 and Photos)

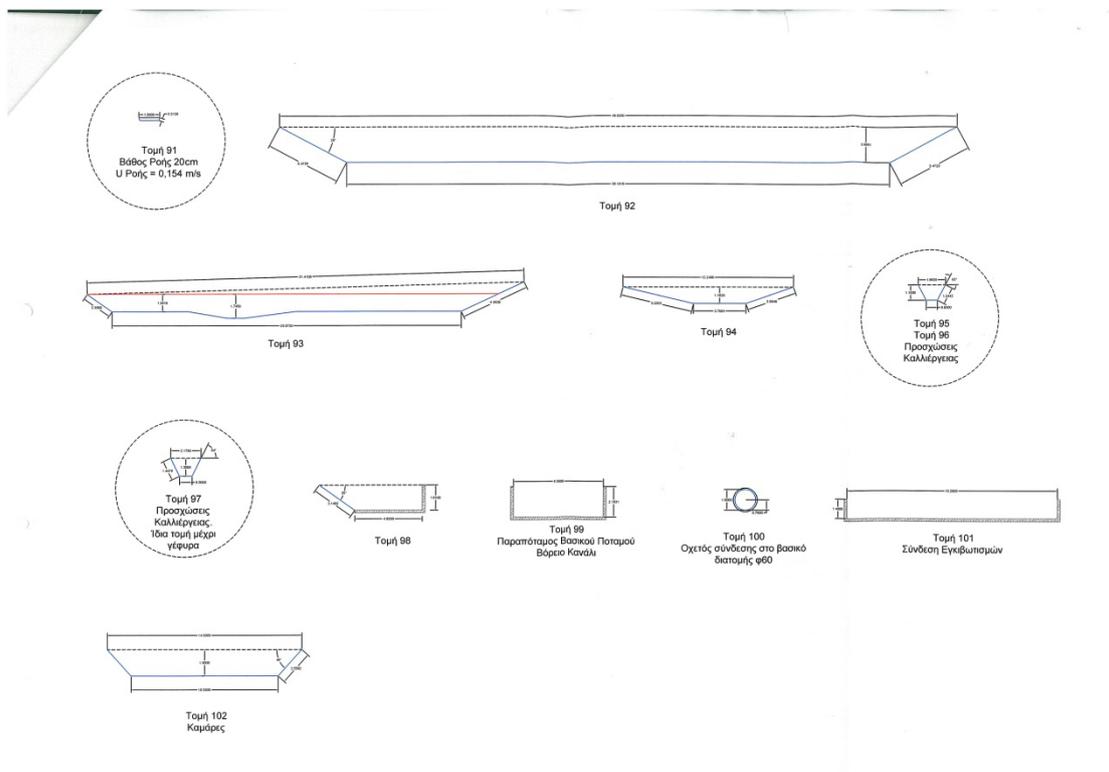


Figure 3: Fieldwork results



Below we can see two streams with different colors. The brown one shows the detailed stream network of the project area and the blue a more simplified one. (Figure 4)

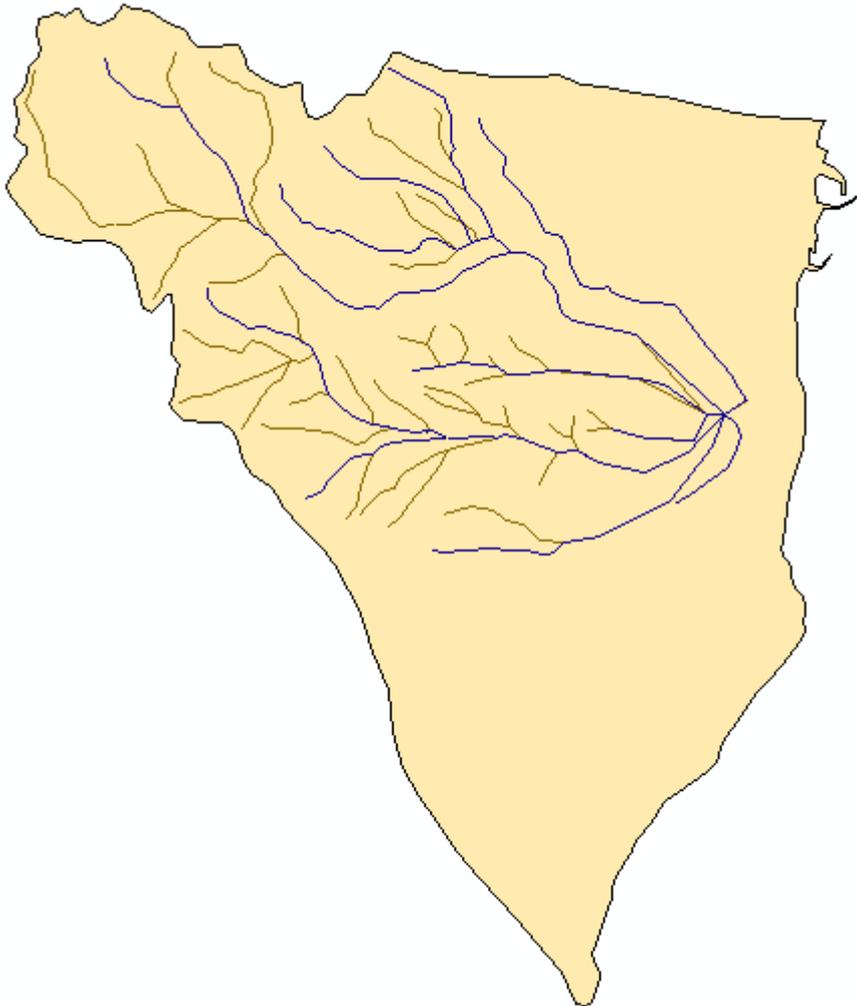


Figure 4: Model Stream Network