

## **93. Laiki**

### **93.1. General Information**

#### **93.1.1. BW**

- *Name:* Laiki
- *ID:* CY0006010000000120B

#### **93.1.2. River Basin District**

- *Name:* Cyprus
- *ID:* CY001

#### **93.1.3. Water Body**

- *Name:* Pafos South
- *ID:* CY\_8-C1

#### **93.1.4. Sampling Point**

- *Coordinates / Reference System:* 32.4458 E, 34.7356N / ETRS89
- *Position / Representativeness:* It is located at the centre of the beach in an area where most bathers are expected. The point is representative.

#### **93.1.5. Localization**

- *District:* Pafos
- *Municipality / Community:* Municipality of Geroskipou

#### **93.1.6. Competent Authority**

- *National Competent Authority:* Environment Service / Ministry of Agriculture Natural Resources and Environment.

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- *Beach Management and Operation:* Public

#### **93.1.7. Beach Use Plans**

Not available.

## **93.2. Natural, Geographical and Hydrological characteristics of the Bathing Water**

### **93.2.1. Natural – Geographical characteristics**

- *Location of the Bathing Water into the Water Body:* (see Figure)
- *Description of the Beach:* Mainly it is composed of pebbles, while only a narrow strip (approximately 1m) along the coastline is sandy. The substrate consists of sandy gravel. Marl and sandstones appear deeper. In the upstream part of the beach and along it there is an alley of eucalyptus, several mulberry trees and some palm trees. In the coastal zone there are touristic facilities and recreational and dining facilities.
- *Description of the coastal zone:* Completely natural state of the sea. The bottom is sandy with few pebbles on the coastal zone.
- *Beach Length:* 605m
- *Average water depth:* 1.5m
- *Maximum water depth:* 2.5m
- *Facilities:* There are public facilities. There are waste bins along the beach, for which Geroskipou Municipality is responsible. During the summer period facilities are offered (sun beds, umbrellas). The beach has lifeguards and lifeguard equipment.
- *Activities:* No water sports activities take place in the Bathing Water.
- *Maximum daily number of bathers:* 2000

### **93.2.2. Hydrological – Meteorological characteristics**

The Bathing Water is located in the major catchment 1. The average altitude of the catchment is up to 465,1m. The average surface precipitation of the basin is up to 551 mm. The T=50 minimum annual rainfall is 242mm. The average annual runoff in the catchment reaches its maximum value in February (540l/sec) and its minimum value in September (46 l/sec) in the hydrometric station r1-3-5-05. Southeast winds prevail during the bathing season.

## **93.3 Identification and Evaluation of pollution sources**

### **93.3.1. Land area**

- *River sub-basin ID:* The land area of influence of the Bathing Water is located within the 1-5-1 sub-basin, Geroskipou.
- *Area:* 0.66km<sup>2</sup>
- *Land use:* It is a small area of influence that is mainly covered by cultivations. A small area of the zone of influence is covered by residential development.

- *Potential pollution sources:* Potential pollution sources are the agricultural runoff and infiltrations and the beach developments' sewage pits. The area does not have a sewage network.

### **93.3.2 Sea area**

- *Potential pollution sources:* Potential pollution sources are the passing/mooring recreation boats and the water sports that take place in a nearby beach.

## **93.4. Historical Data**

The Bathing Water is not related with any internal surface water body designated under the Water Framework Directive. The coastal water body in which the Bathing Water is situated is in good ecological status.

The Bathing Water quality is being monitored since 2008. Based on the monitoring data, the status of the Bathing Water is excellent.

## **93.5 Possibility of eutrophication growth from macroalgae and phytoplankton and presence of other waste**

From the evaluation of the pollution sources within the land and sea area of influence of the Bathing Water, it is estimated that there is a **low degree of risk** of macroalgae and phytoplankton growth.

## **93.6 Short-term pollution**

*Observed incidents:* No short-term pollution incidents have been reported during the 2008-2010 bathing seasons.

*The risk of short-term pollution:* Negligible.

*Potential sources:* Large number of bathers, passing boats.

*Frequency:* Once during the bathing season

*Duration:* 1-2 days

*Competent Authority:* Environment Service / Ministry of Agriculture Natural Resources and Environment.

*Management measures:* Intensified inspections of the compliance with the regulations of waste water management on marine vessels.







