Rib. Cercas.

Monte da Gorda.

Oligochaeta (R)   0

Chironomidae (R)   0

Simuliidae (Y)   84

Hirudinea (Y)   0

Caracois (Y)   1

Escaravelho   0

Bivalves   0

Libelulas   1

Libelinhas   0

                    0

Isopode

Tricoptero larvas (G) 0

Ecemeroptero   230

Crustaceans   0

Megaloptero   0

Plecoptera   1

Voluntariado Ambiental

Site description

ARH ALGARVE
Administração da
Região Hidrográfica
do Algarve I.P.

River: __CERLES__ Municipality: __Monchique__

Sampling location (annexe map) __Ford__ Date: __2/5/17__ Start time: __16:10__
__Monte da Carvola__

Name: __SOUMMA, MANNESIA, ALEX, MUM BEN__ Organization: __University of Portsmouth__

Select and circle the weather:

__37°18,35.96N__ __8°44,8.91W__

For safety, do not work alone.

Choose a sampling location and at that point analyse the state of the river / stream for about 50 m upstream and about 50 m downstream. Observe carefully and carefully fill in this site description form.

1. Are there signs of human activity in the area around the water course? (within ± 50 m of the bank)

The left bank (LB) and the right bank (RB) are in the direction of the current (see the explanatory leaflet).

	RB	LB		RB	LB		RB	LB		RB	LB
Tourism			Agriculture		✓	Forestry*			Buildings		
Golf			Grazing			Industry			Roads	✓	✓
Camping			Livestock			WTW / WWTW			Other*	✓	✓

*Describe what you observe (especially if there are eucalyptus trees): __Gravel Road through Stream__

2. Are there buildings or other constructions in the watercourse or in the surrounding area? (within ± 50 m of each bank)

The left bank (LB) and the right bank (RB) are in the direction of the current (see the explanatory leaflet). When necessary also consider the channel (C) (see the explanatory leaflet).

	C		RB	LB		RB	LB		RB	LB
Dam		Wall/channel			Irrigation channel			Buildings		
Weir		Spring			Water mill			Roads	✓	✓
Bridge or pontoon	✓	Borehole/shallow well			Pipes			Other*	✓	✓

*Describe what you observe: __Bridge nearby Ford through river from gravel road__

3. Condition of the water

3.1) Flow (see figure in explanatory leaflet):

Without water (dry)	
No detectable flow	
Laminar flow (smooth)	✓
Turbulent flow	

3.2) Odour of the water:

Odourless	
Pleasant smell	✓
Fishy or muddy smell	
Sewage smell	
Other*	

*Describe what you smell:

3.3) Turbidity:

Clear water (transparent)	✓
Brownish water (some turbidity)	
Dark coloured water (very turbid)	
Other*	

*Describe what you observe:

3.4) Presence of pollutants:

Foam	
Sewage	
Plastic, glass or metal materials	
Oil patches or slicks	
Other*	

*Describe what you observe: __No visible pollutants__

3.5) Presence of nutrients/eutrophication

Clear water with aquatic plants	✓
Green water with microalgae	
Very green water with microalgae	
Green to brown water with an unpleasant surface layer of algae.	
Other*	

* Describe what you observe
__Benthic Algae on Rocks (green)__

3.6) pH of the water (optional)

pH < 6	
pH > 6 & < 8	
pH > 8	

Collect a sample of stream water in a beaker, dip pH indicator paper in the water. Compare the result with the scale on the packet. You may also measure other characteristics like water temperature, dissolved oxygen, conductivity and hardness.

$pH = 8$
$NO_3 = 0.75ppm$
$N_2 = 0.75ppm$
$Conduct = 2.87 \mu S$
$CaCO_3 = 80 ppm$
$Hardness = 60 ppm$
$Temp = 21.4°C$
$O_2 = 0.75ppm$

For help in filling in this form consult the explanatory leaflet.

Voluntariado Ambi...
Site de...

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4. Condition of the river/stream

The left bank (LB) and the right bank (RB) are in the direction of the current (see the explanatory leaflet). When necessary also consider the channel (C) (see the explanatory leaflet).

4.1) Degree of artificialization:

	RB	LB
Natural water course		
Some signs of alteration	✓	✓
Altered water course		
Other*		

4.2) Bank profile:

	RB	LB
Vertical		
Sloping (> 45°)		
Gentle	✓	✓
Mixed		

*Describe what you observe: Road Land crumply stream

4.3) Types of substrate in the channel and on the banks (see the explanatory leaflet):

	RB	C	LB		RB	C	LB
Bare rock				Gravel or sand	✓		✓
Blocks (large rocks)				Earth *(with vegetable matter)	✓		✓
Large stones				Clay			
Stones or cobbles				Artificial (concrete, masonry, etc.)			

* Only complete for the banksides

4.4) Erosion and deposition (see the explanatory leaflet):

		RB	C*	LB
Erosion zones (bank cutting)	Bankside being eroded			
	Stabilized bank (bank already suffered erosion)			
Sediment deposition zones (banks)	Banksides without vegetation	✓		✓
	Banksides with vegetation	✓		✓

* Only complete for banks in the streambed.

5. Vegetation on the banksides

The left bank (LB) and the right bank (RB) are in the direction of the current (see the explanatory leaflet). When necessary also consider the channel (C) (see the explanatory leaflet).

5.1) Presence of trees:	RB	LB	5.2) Other observations:	Y/N
Continuous or closed tree cover			Shading	
Semi-continuous or spaced out tree cover			Exposed roots	
Isolated trees	✓		Submerged roots	
Bushes		✓	Fallen trees	
Undergrowth			Large deposits of woody material	

5.3) Invasive or exotic vegetation:	RB	LB	5.4) Native vegetation:	RB	LB
Cane (Arundo donax)			Oleander (Nerium oleander)		✓
Eucalyptus (Eucalyptus spp.)			Willow (Salix alba)		✓
Acacias (Acácia spp.)			White poplar (Populus alba)		
Hottentot-fig (Carpobrotus edulis)			Lesser bulrush (Typha angustifolia)		
Castor-oil-plant (Ricinus communis)			Narrow-leafed ash (Fraxinus angustifolia)		
Other*			Tamarix (Tamarix africana)		

*Describe your observations:

6. Fauna observed (see figures in the explanatory leaflet)

Mammals		Fish	
Birds		Insects (including larvae)	✓
Reptiles		Molluscs	
Amphibians	✓	Signs of animals (footprints, scat & other)	

Try to identify the fauna observed.

Overall opinion of the river / stream (optional)

In your opinion the natural, environmental and ecological quality of the river is (circle one answer):

Bad   Poor   Reasonable   Good   Excellent

Suggest activities for improving the ... your colleagues could carry out

...let.