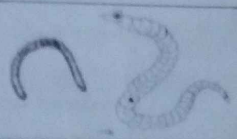
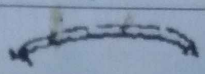
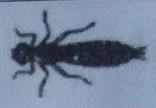
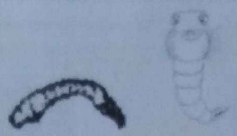
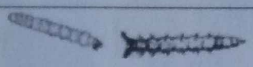
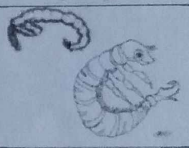
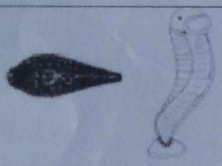
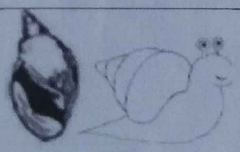
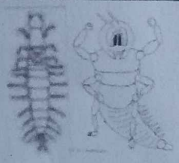
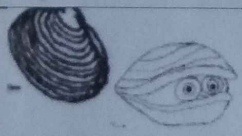
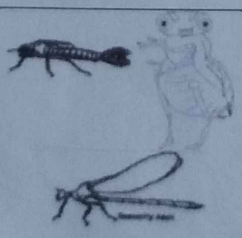
Voluntariado ambiental - Ficha de Campo – T… …em

		Quantos destes encontrastes?			Quantos destes encontrastes?
Minhocas de água (Oligochaeta					
Larvasde sangue vermelho (Chironomidae)			Libelinhas (Zygoptera larvas)		13 BIG 21 small
Larvas de mosquito (Simuliidae)		4	Isópode		0
Diptera (larvas)		4	Tricóptero (larvas)		0
Sanguessuga (Hirudinea)		2	Efemeróptero (larvas)		13
Caracóis		3	Crustáceos de água doce		0
Escaravelho (Larvas e adultos)		2	Megalóptero (larvas)		0
Bivalves de água doce		0	Plecóptera (larvas)		7
Libélulas (Anisoptera larvas)		0			

Organização: U.D.P

Coordenador: Astrid / Steven

Ribeira: Cercas

Local / Concelho: Monchique / Portimão

GPS Lat: N 37° 19.264 Long: W 8° 40.392

Data: _____ Hora início/final: ___ / ___

Voluntariado Ambiental para a Água

Site description form

River CARRE Municipality Monchique

Sampling location (annexe map) Bridge) Passio Date: 2/5/17 Start time: 14:38

Name: SOWMYA, CAROLINE, VANESSA, ALEX, BEN Organization: UNIVERSITY OF PORTSMOUTH

Select and circle the weather:

17.28
18.51s
21.00s
20.04s
avg 19.27s
3.50m
10.15.10 cm

2.7m
10.8.16 cm

Avg W = 3.1m
AvgD = 11.5cm
Xsection A = 0.36m

W = 3.1m
D = 0.12m
S = 19.22/10m

0.198 m³/s

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): no eucalyptus trees

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 over river. Road. Two lanes. + Abandoned semi collapsed building

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: none

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

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.

P = 0.5 ppm
T = 18 C
O_2 = 12 mg/L
8.3
NO_3 = 2-5 ppm
N_2 = 0.07 ppm
Conduct = 189 µs
Hardness = 50 ppm

...anatory leaflet.

Voluntariado

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

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*		

*Describe what you observe:

4.2) Bank profile:

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

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

	RB	C	LB
Bare rock			
Blocks (large rocks)			
Large stones	✓	✓	✓
Stones or cobbles	✓	✓	✓

	RB	C	LB
Gravel or sand			✓
Earth *(with vegetable matter)			✓
Clay			
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
Continuous or closed tree cover	✓	✓
Semi-continuous or spaced out tree cover		
Isolated trees		
Bushes		
Undergrowth		

5.2) Other observations:	Y/N
Shading	Y
Exposed roots	Y
Submerged roots	Y
Fallen trees	Y
Large deposits of woody material	Y

5.3) Invasive or exotic vegetation:	RB	LB
Cane (*Arundo donax*)		
Eucalyptus (*Eucaliptus spp.*)		
Acacias (*Acácia spp.*)		
Hottentot-fig (*Carpobrotus edulis*)		
Castor-oil-plant (*Ricinus communis*)		
Other*	✓	✓

*Describe your observations: bamboo

5.4) Native vegetation:	RB	LB
Oleander (*Nerium oleander*)		
Willow (*Salix alba*)	✓	
White poplar (*Populus alba*)		
Lesser bulrush (*Typha angustifolia*)		
Narrow-leafed ash (*Fraxinus angustifolia*)		
Tamarix (*Tamarix africana*)		

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 (circle one answer):

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 stream or other activities that you feel could contribute to

the explanatory leaflet.