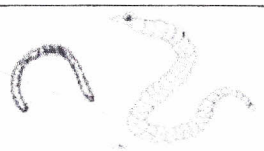
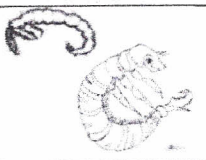
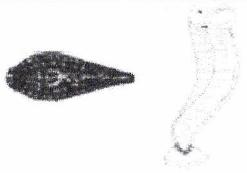
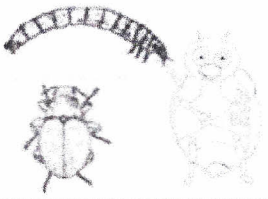
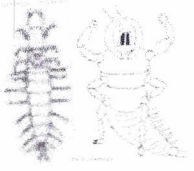
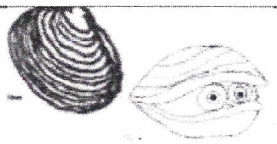
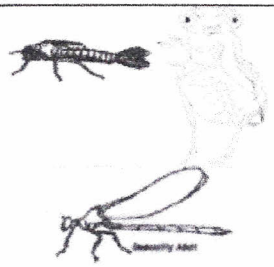
Voluntariado ambiental - Ficha de Campo – Triagem no campo: Identificação e contagem

		Quantos destes encontrastes?			Quantos destes encontrastes?
Minhocas de água (Oligochaeta					
Larvasde sangue vermelho (Chironomidae)			Libelinhas (Zygoptera larvas)		
Larvas de mosquito (Simuliidae)			Isópode		
Diptera (larvas)			Tricóptero (larvas)		
Sanguessuga (Hirudinea)		8	Efemeróptero (larvas)		18
Caracóis			Crustáceos de água doce		
Escaravelho (Larvas e adultos)			Megalóptero (larvas)		
Bivalves de água doce			Plecóptera (larvas)		5
Libélulas (Anisoptera larvas)					

Organização: Plymouth University

Coordenador: Steven

Ribeira: Romeiras

Local / Concelho: Três Figos / Monchique

GPS Lat: N 37.242825 Long: W -8.709150

Data: 11/5/17 Hora início/final: 3:00 / 3:30

Voluntariado Ambiental para a Água

Site description form

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

River Romeiras Municipality Monchique

Sampling location (annexe map) Tres Fyos Date: 1.5.17 Start time: 2.30

Name: Ella Smith Organization:

Select and circle the weather:

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):

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:

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:
Cloudy

3.4) Presence of pollutants:

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

*Describe what you observe:

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.	

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

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		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	Y
Semi-continuous or spaced out tree cover		✓	Exposed roots	N
Isolated trees			Submerged roots	N
Bushes			Fallen trees	N
Undergrowth			Large deposits of woody material	N

5.3) Invasive or exotic vegetation:	RB	LB	5.4) Native vegetation:	RB	LB
Cane (*Arundo donax*)	✓	✓	Oleander (*Nerium oleander*)		
Eucalyptus (*Eucaliptus 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.

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

Bad Poor Reasonable Good Excellent