

BSP COASTWATCH QUESTIONNAIRE

Survey is to be done: 12.-25. 09.2012

This questionnaire is for 500 m of shoreline

A INFORMATION ON SITE AND SURVEYORS

A1

Please draw a map of
your excursion area in
the box

A 2 Map name of the survey area or unit: **Vainupea**

A3 School name and address: **Kadrina Secondary School;
Rakvere tee 4, Kadrina 45201, Estonia**

A31 Teachers name, class and number of
students taking part of survey:

Siret Pung; Form 11 (6 students; Group I)

A 32 Address of school and teacher's e-mail: **Siret Pung – siret.pung@gmail.com**

A 4 Date of the survey /day/month/year: **28.09.2012**

A 5 Do you know your site: Well **X** ₁ A little ___ ₂ Here on 1st or 2nd visit ___ ₃

A 6 Is your unit (part of) specially designated area? Yes ___ ₁ No **X** ₂ Don't know ___ ₃

A 7 If your unit is specially designated please mark:

UNESCO Biosphere Reserve ___ ₁

Ramsar Site ___ ₂

National Park ___ ₃

Nature or Marine Reserve ___ ₄

Other designation of natural importance ___ ₅

Bathing water ___ ₆

A 7 Is access to your coastal unit:

Easy by foot/vehicle **X** ₁ Difficult or normally ___ ₂ Tick, if access is prohibited ___ ₃
impossible by foot/vehicle

B INFLUENCES FROM LAND immediate hinterland up to 500 m beyond the splash zone

B 1 Is the immediate hinterland (up to 500 m from splash zone) mainly devoted to:
(tick up to five boxes if necessary)

- | | |
|------------------------------------------|-----------------------------------------------|
| Intensive grazing ___ 1 | Village or residential X 8 |
| Tillage farming incl. horticulture ___ 2 | Tourist resort X 9 |
| Scrub or rough grazing X 3 | Waste tip ___ 10 |
| Dunes X 4 | Industry, port industry, power station ___ 11 |
| Park/woodland/forest X 5 | Transport: road, train port, marinas ___ 12 |
| Wetland (bog, marsh, lagoon) ___ 6 | Construction site ___ 13 |
| Rock/sand X 7 | Military zone ___ 14 |
| | Other ___ 15 |

B 2 Please count inflows as you walk your unit. Give details **up to 4** inflows in the order encountered. If there are more than four, choose the most important in terms of potential pollution impact.

	1	2	3	4
Type of inflow Write P = pipe, S = Seepage, OD = open drain, Storm drain or irrigation canal, R = River/stream, lagoon inflow	R			
Size of inflow: Small = 1, Medium = 2, Large = 3	2			
Please tick for each inflow if it has...	X			
Signs of animal life in the water?	3	3	3	3
Has the inflow a bad smell?	4	4	4	4
Discoloration/scum/froth from pollution?	5	5	5	5
Dead fish?	6	6	6	6
Dumped debris in or beside inflow?	7	7	7	7
Visible sewage?	8	8	8	8
Oil or petrol or diesel?	9	9	9	9

Total number of inflows in unit: 1

C SPLAZH ZONE the shoreline from mean high water up to spring high water

C 1 Indicate what the area is mainly composed of: (tick maximum 2 categories)

Solid rock 1	Boulders 20 cm + 2	Gravel 0.2-20 cm 3	Sand X 4	Silt or Mud 5	Other (built walls) 6
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C 2 Which of the plants listed did you find in your unit?

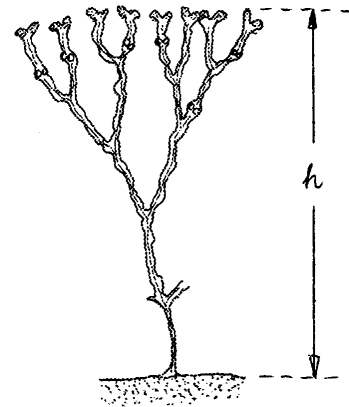
Reed bed 1	Sea Grass <i>Zostera</i> 2	Brown or Red Algae X 3	Green algae		Dislodged decaying algae 6	Other 7
			Patches or thin band 4	Extensive cover or thick mats 5		
X			X			X

C 3 Size of bladder wrack *Fucus vesiculosus*, varies in different areas of the Baltic Sea depending on living conditions. If you have found bladder wrack in your area, please take 3 – 5 plants and measure the length of the plant from the attaching place to the top of the longest branch and calculate the average.

Plant was attached yes ___ no **X**

Average length of bladder wrack **20** cm

Look carefully bladder wrack plants. Are there growing other alga (hair, filaments).
none ___ a few **X** many ___



C 4 If you know area well indicate whether there was any visible algal blooms in water this spring or summer

Yes ___ 1 No **X** 2 Don't know ___ 3

C 5 Indicate which of the animals listed you found live (L) or dead (D):

Jellyfish 1	Worms and wormcasts 2	Shellfish eg cockles, winkles		Crustaceans eg crabs		Fish		Seabirds		Seals		Dolphins		Rats	
		L 3	D 4	L 5	D 6	L 7	D 8	L 9	D 10	L 11	D 12	L 13	D 14	L 15	D 16

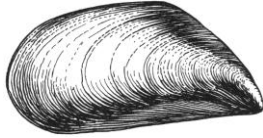
How many of each? →

2	2								
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C 6 Which of the following animals were you lucky to find along your part of the shore?

Blue mussel *Mytilus edulis*

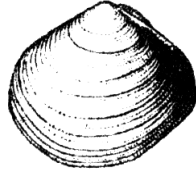
none a few many



Length 1.5 – 10 cm

Baltic clam *Macoma baltica*

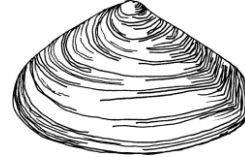
none a few many



Triangular shell

Mya arenaria

none a few many



Oval, up to 12 cm long

Common cockle *Cerastoderma glaucum*

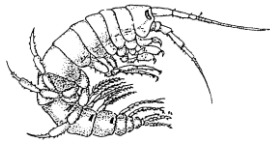
none a few many



Heart- shaped, transverse ridges

Gammarus sp.

none a few many



C 7 Did you find any visibly oiled birds (live or dead) during your survey?

How many live oiled birds? **0** How many dead oiled birds? _____

D GENERAL LITTERING

D 1 Tick any major item(s) found on your unit

Landfill materials (e.g. concrete, rubble, debris from sea defences etc.)	1	X
Large metal objects e.g. abandoned vehicles, girders (exclude bins)	2	
Household furnishings (beds, carpets, pieces of furniture etc.)	3	
Household refuse in bags or piles of rubbish	4	
Ship wreckage or small metal parts of ship wreckage	5	
Dumped crops (potatoes, onions etc.)	6	

D 2 Please count each type of beverage container, can holders, tyres and plastic shopping bags found anywhere on the shore. If the number is too large to count, estimate it.

Use dashed lines
for tally III-III

_____ 1 _____	<input type="checkbox"/>	Glass bottles (drinks)
_____	<input type="checkbox"/>	Metal drinks containers
_____	<input type="checkbox"/>	Plastic drinks containers
_____	<input type="checkbox"/>	Can holders
_____	<input type="checkbox"/>	Paper or lined paper drinks containers
_____	<input type="checkbox"/>	Tyres (Half a tyre or more = 1)
_____ 2 _____	<input type="checkbox"/>	Plastic shopping bags

D 3 Tick which of the following items of general litter or pollution you found on your unit:

Lost or discarded plastic fishing & aquaculture gear (nets, lines, bags)	1	
Packing straps	2	X
Hard plastic containers (including crates)	3	
Foamed polystyrene and polyurethane	4	
Sanitary material (incl. condoms, sanitary towel)	5	
Other plastics (not sanitary, bottles, bags, can holders, straps)	6	
Tar, oil, petrol, diesel	7	
Containers of potentially hazardous substance (chemicals etc.)	8	
Textiles, shoes, gloves, items of clothing	9	X
Paper, cardboard, worked wood, vegetable waste	10	
Food, fish waste and bones	11	
Faeces (mammal incl. human)	12	
Medical waste e.g. syringes, plasters	13	
Glass (including light bulbs)	14	
Cans (including non-hazardous spray cans, camping gas)	15	

E GENERAL OBSERVATIONS

E 1 Has recent weather made the appearance of your coastal unit change?

Yes, it looks cleaner than usual ____ 1 Yes, looks worse than usual ____ 2

No, recent weather is insignificant ___ 3 Don't know X 4

E 2 Has the beach been cleaned within the last week?

Yes ___ 1 No ___ 2 Don't know **X** 3

E 3 Is there any planned change of character (positive or negative) which is imminent for this coastal unit?

Yes ___ 1 No ___ 2 Don't know **X** 3

E 4 If you have evidence of a serious risk or imminent planned change for the worse, please tick up to five boxes which describe the principal risk or imminent negative changes

Erosion 1	Beach mining 2	Construction 3	Dumping/ tipping 4	Water pollution	Recreational abuse 10	Other 11
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Sewage 5	Radioactivity 6	Oil 7	Industry 8	Agriculture or industrial farming 9
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E 5 Please enter an short comment or observation:

We observed Vainupea coast area on the beach (2x500 m) – Group I and Group II – in the same place, where we did it last autumn. Compared to last year the level of the sea had risen considerably and large fucus piles of had been washed on the shore. Seawater was coloured brownish-green because of the seaweed and it was probably due to strong winds.

The coast had much less garbage than last year, but unfortunately we found a lot of cigarette butts and burnt wood. Which was probably due to recent of night of the lights celebration, when people made a lot of campfires. The coast is influenced by the summerhouses area. Vainupea is also a very popular swimming place and summer resort. There aren't any significant polluters here. On the other hand reed bed area has enlarged. It was amazing that this time we found so few aquatic animals. During our observation we cleaned the beach – we picked up the trash we saw and took it with us.