

RIVERFLY ON THE ESK

Volunteering and how it benefits stakeholders



Agenda

- What we do
- My journey and what I get out of volunteering
- The Riverfly on the Esk project – Community benefits
- The Riverfly project nationally
- Questions

What we do – where we do it

- Newbattle (Dalkeith, Midlothian) - 3 sites
- CSOs and a polluted tributary



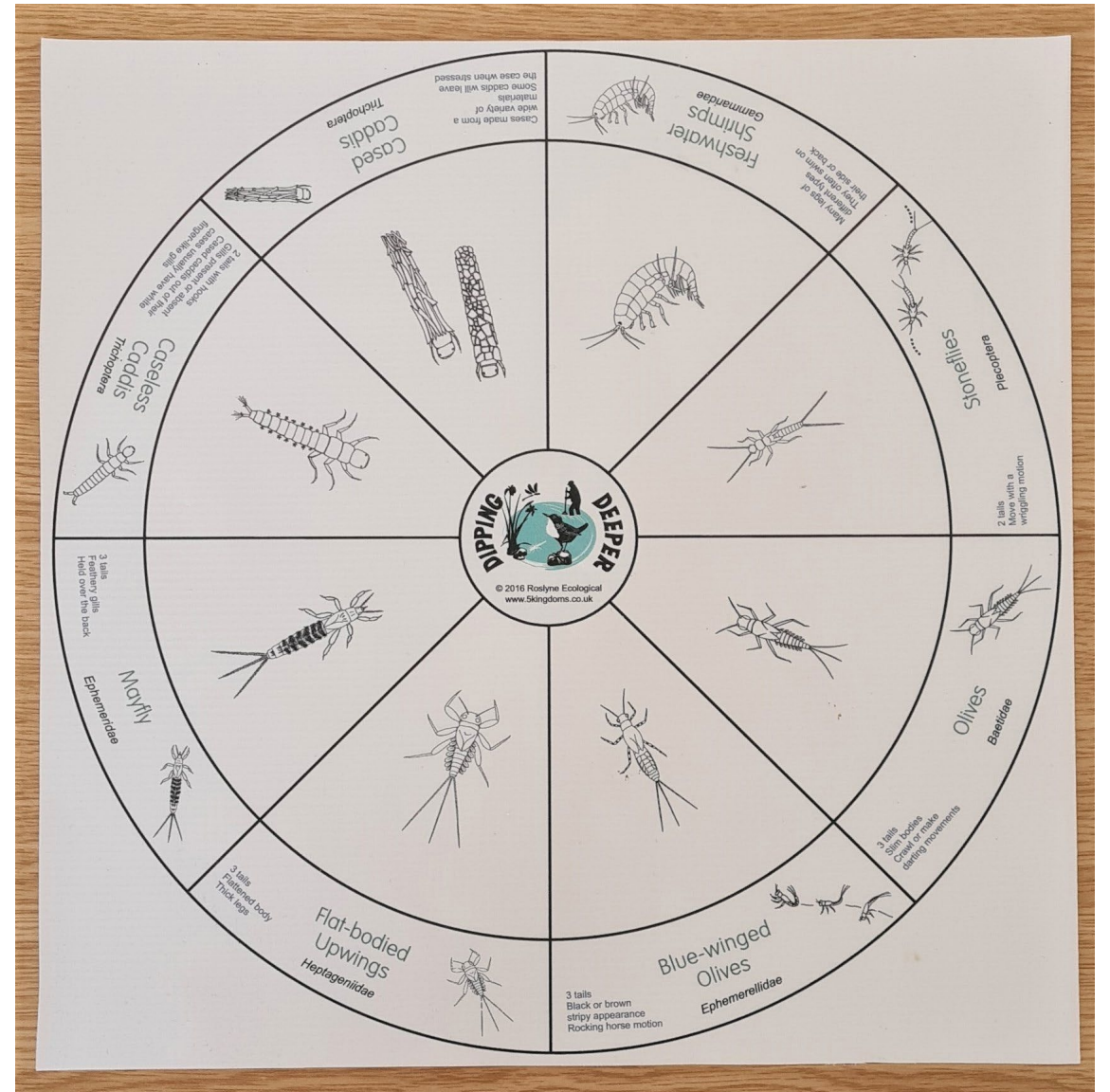
What we do – how we do it

- Once a month
- Kick-sampling
- Rock checks



What we're looking for

- Eight groups



Riverfly monitoring for anglers
and conservation volunteers
Recording sheet



ARMI group	
Site name	
River	
Grid reference	
ARMI group coordinator	
Trigger level	

		Example month		Month 1		Month 2		Month 3	
Date		27/06/2015							
Recorded by		B Fitch & A Menzies							
		Est. number*	Score	Est. number*	Score	Est. number*	Score	Est. number*	Score
Caddisflies	Cased caddisfly	20	2						
	Caseless caddisfly	2	1						
Up-wing flies	Mayfly (Ephemeroidea)	10	2						
	Blue-winged olive (Ephemerellidae)	20	2						
	Flat-bodied stone clinger (Heptageniidae)	100	3						
	Olives (Baetidae)	4	1						
Stoneflies	Stoneflies (Plecoptera)	3	1						
Freshwater shrimp	Freshwater shrimp (Gammaridae)	8	1						
ARMI score			13						
Additional observations/notes		Fly hatches observed. River level: LHB 200mm, Middle 350mm, RHB 150mm.							

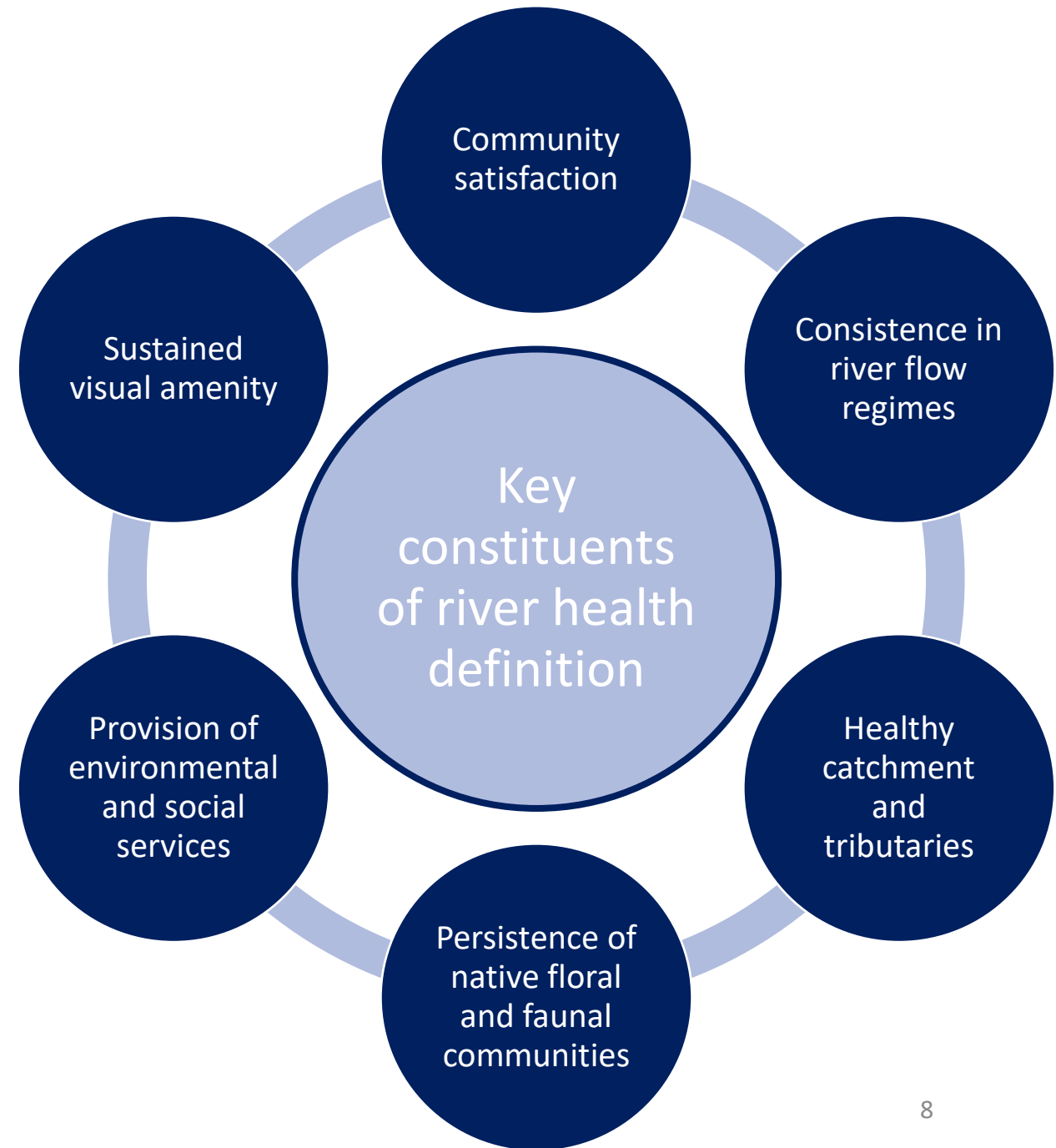
Note the 'Score' and estimate the numbers of each target group from the sample, for example:
 If less than 10 Cased caddis: enter 'Score' 1 and estimate the number
 If between 10 and 100 Caseless caddis: enter 'Score' 2 and estimate the number to the nearest 10
 If between 100 and 1000 Mayflies: enter 'Score' 3 and estimate the number to the nearest 100
 If more than 1000 Olives: enter 'Score' 4 and estimate the number to the nearest
 Available on line at www.riverflies.org

Abundance	Score	Estimated number*
1-9	1	Quick count
10-99	2	Nearest 10
100-999	3	Nearest 100
Over 1000	4	Nearest 1000

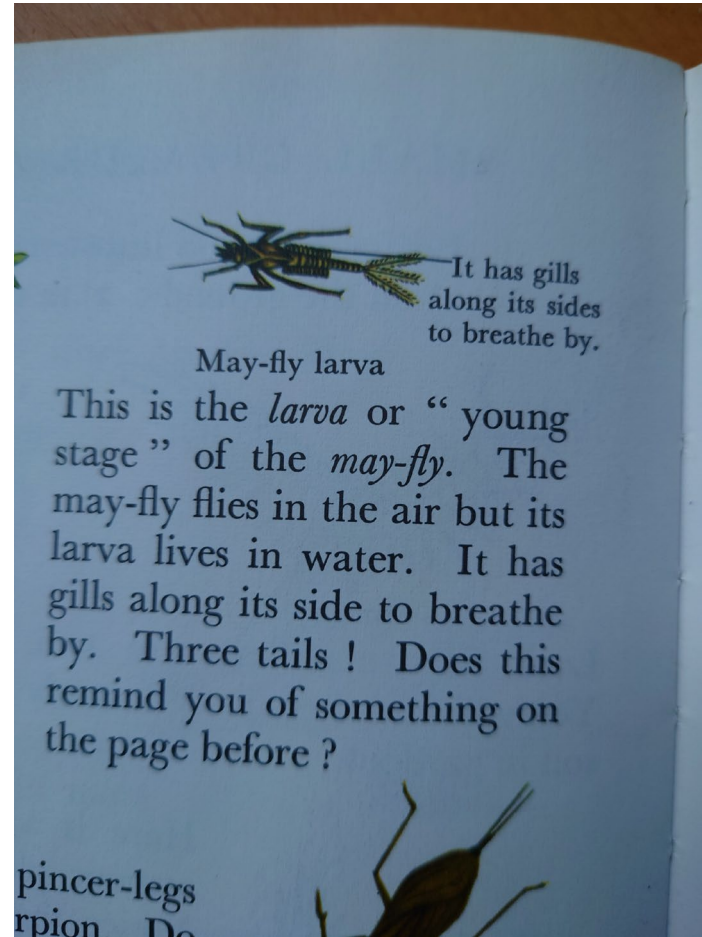
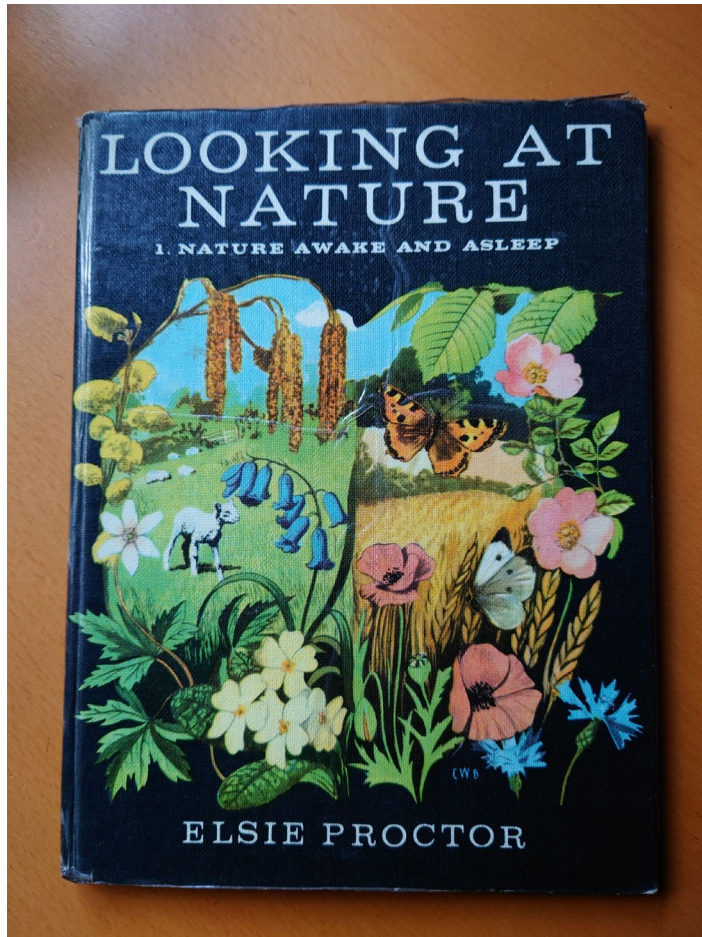
Abundance	Score	Estimated number ^a
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Over 1000	4	Nearest 1000

Pollutant Monitoring and Water Quality

- Nitrates/ phosphates
- Other measures such as turbidity



Where it all began...



What do I get out of it?



Fresh air



Exercise



What do I get out of it?



Learning



Social/Community



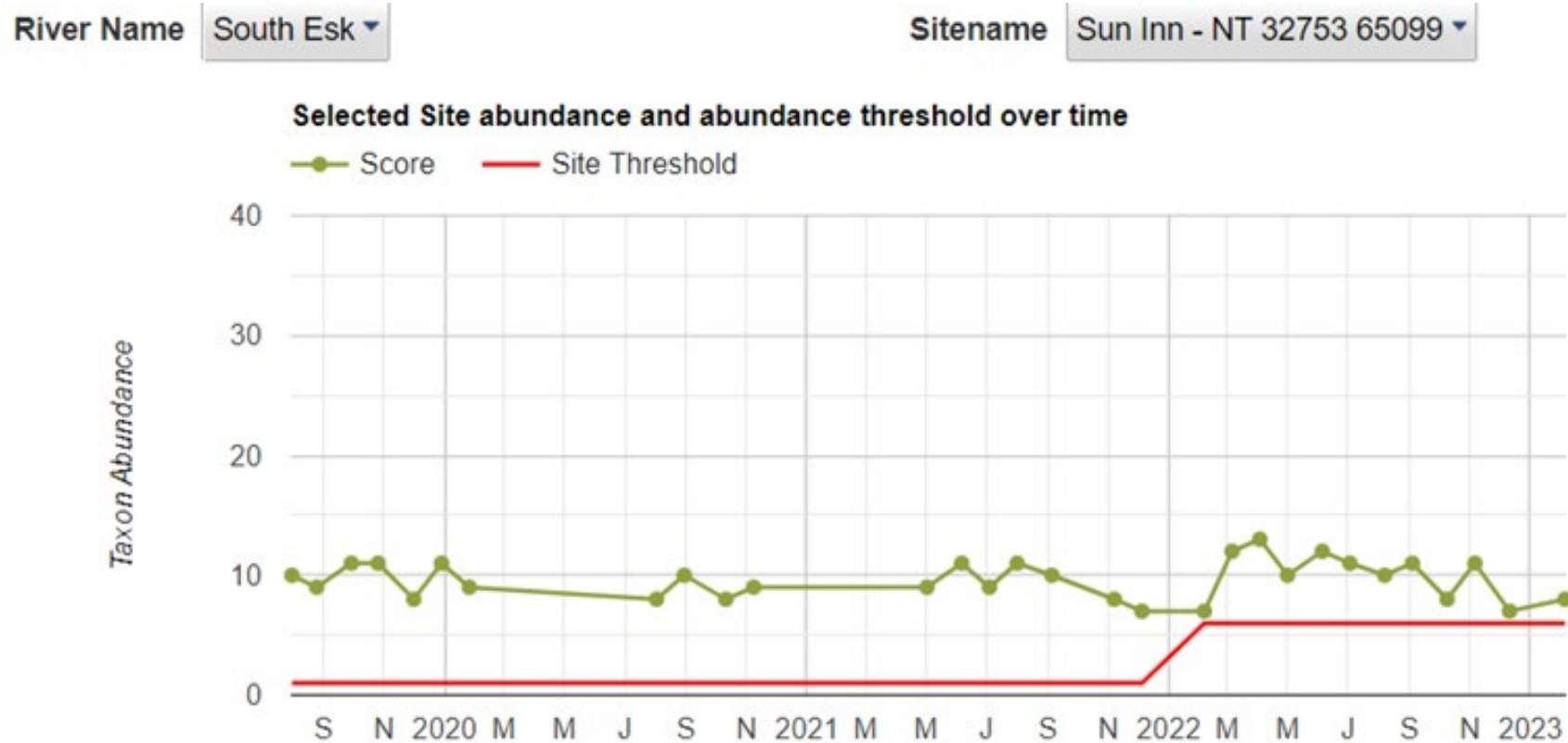
What do I get out of it? – Fulfilment



Community Benefits – Engagement

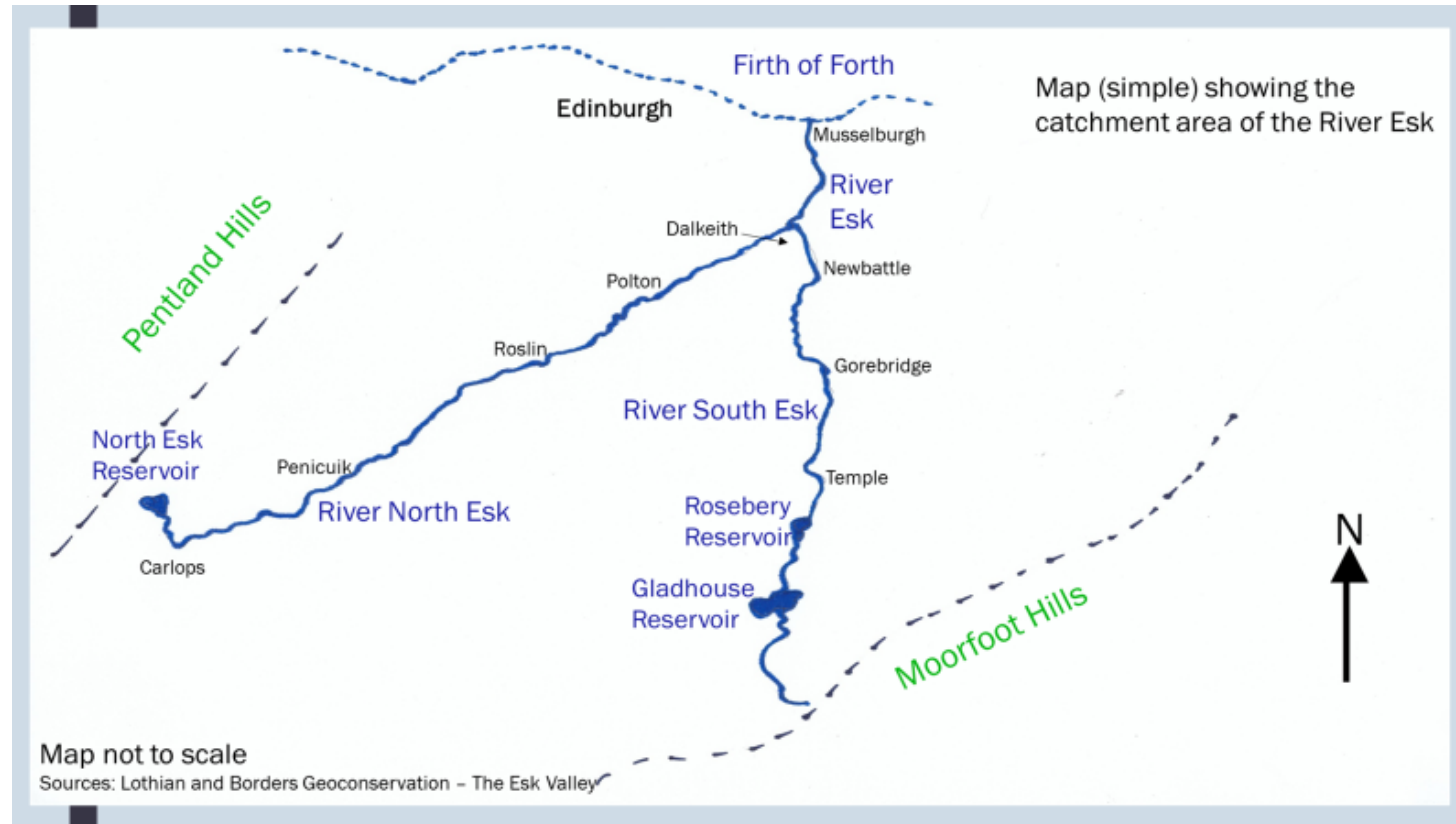


Community Benefits – Pollution Monitoring/ Habitat Preservation



The Wider Community

- 16 groups covering the whole catchment of the Esk



The Big Picture





fly monitoring for anglers
and conservation volunteers
Recording sheet

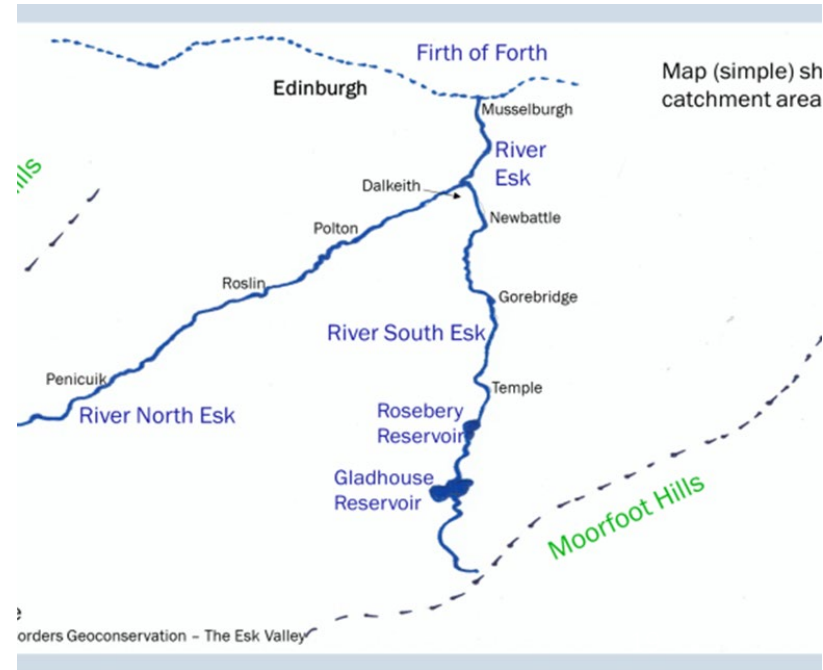
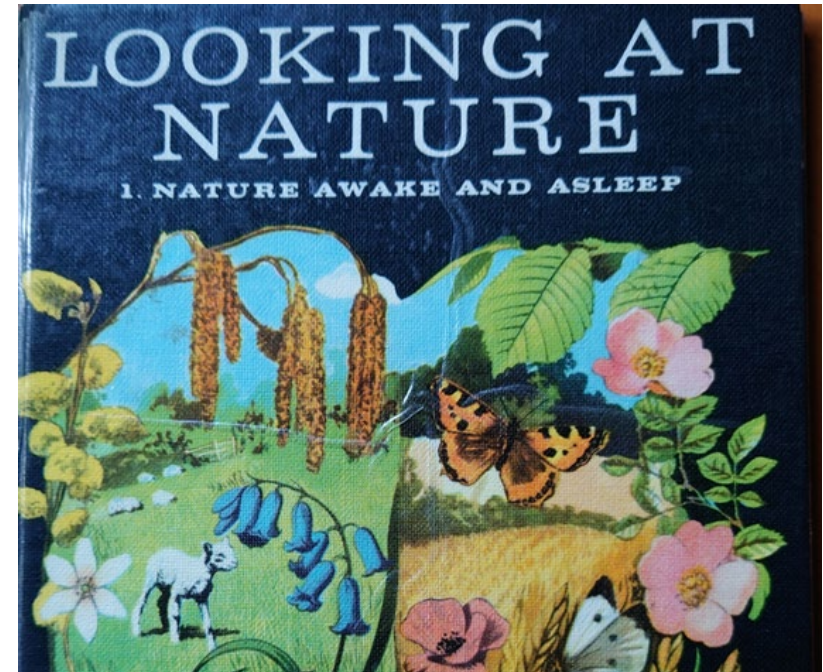
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Questions?



FOREST COLLEGE
Lifelong Learning Outdoors

Newbattle Abbey College
Colaiste Abaid a'Bhatail Nuaidh