Freshwater pearl mussel
(*Margaritifera margaritifera*)
and sediment

Angus Tree
Protection

- Bern Convention 1979 – Appendix III
- Habitats Directive 1992 – Annexe II and V
- Wildlife and Countryside Act 1981 (as amended) – Schedule 5
- IUCN Red List of Threatened Species – ‘endangered’
19 freshwater pearl mussel SACs

17 in unfavourable condition

9 in unfavourable condition due to morphological alterations
  – North Harris
  – Ardnamurchan Burns
  – Glen Beasdale
  – Inverpolly
  – Mingarry Burn
  – River Dee
  – River Moriston
  – River Naver
  – River South Esk
• water quality
  – clear
  – well-oxygenated
  – pH 7.5 or less
  – low conductivity
  – low nutrients

• water quantity and velocity
  – adequate to cover
  – fast enough to remove silt and maintain oxygen levels

• substrate
  – typically small sand patches stabilised by cobbles or boulders
Unattached glochidia.

Encysted glochidia on host gills.