Semerwater

Aquatic Invertebrates Survey 2024

Andy Godfrey







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Background

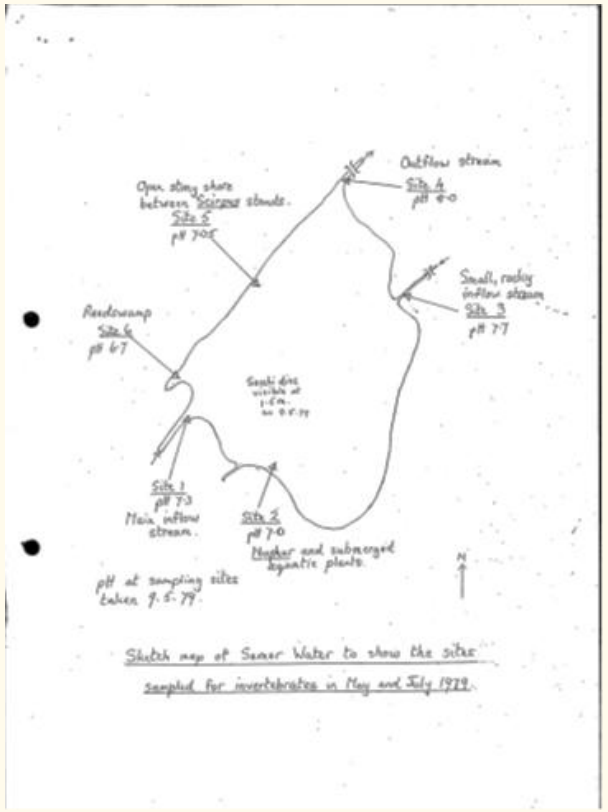
1977 – Cited for its ‘large number of Mayfly species’
(Mayflies Assemblage) and White-Clawed Crayfish – Derek Ratcliffe
1979 – Survey of Semerwater by Margaret Palmer
1993 – Geoffrey Fryer – freshwater crustaceans
2002 – Les Ruse – midges (lake nutrients)
2012 – PBA survey of diatoms, macroinverts and water quality
2017 – Martin Hammond – water beetles





Surveys

Margaret Palmer 1979



Andy Godfrey 2024



2 dates: 9th May and 19th July
Kick-sampling, Sweep-netting, eDNA

Results

	Margaret Palmer 1979	Andy Godfrey 2024
Mayflies	8 species	14 species
Stone Flies	3 species	10 species
Caddis Flies	7 species	16+ species
Total number of aquatic taxa	67	95

White-clawed Crayfish	**Yes**	**Yes***
Signal Crayfish	No	No*
Crayfish plague	Not tested	No*

*eDNA

Conclusions

- Good biological water quality (Mayflies are fussy)
- Fewer aquatic plants than in 1979
- Effect of Geese?
- pH has changed a bit
  (average 7.29 in May 1979, 6.52 in May 2024)

- Good news regarding Crayfish



Thank You