[10]

## Mark schemes

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(a) bacteria 1 (b) any **two** from: bacteria increase before protozoa increase when bacteria are high, protozoa increase allow protozoa increase after bacteria increase as protozoa increase, bacteria decrease (after site A) as bacteria decrease, protozoa also decrease allow when bacteria are low, protozoa are low 2 (aerobic) respiration (c) do not accept anaerobic respiration 1 (d) (algae carry out) photosynthesis 1 (which) produces oxygen allow algae produce oxygen 1 bars plotted correctly (e) allow a tolerance of ± ½ a small square ignore column widths 1 suitable shading 1 (f) more sludge worms at A (than at B) allow fewer sludge worms at **B** (than at **A**) allow high number of sludge worms at A and low number at **B** no mayfly nymphs at **A and** mayfly nymphs present at **B** allow more mayfly nymphs at **B** (than at **A**) answers must be comparative