

Receptor Impact Summary Table

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Receptor Impact Summary Table

Feature	Importance	Option 1 - existing	Option 2 - enhanced management no navigation	Option 3 - 5 m unrestricted	Option 4 - 5 m restricted	Option 5 - 10 m unrestricted	Option 6 - 10 m restricted	Option 7 - partial restoration	Preferred option
Aquatic macrophyte communities	Local to County	continued decline in species diversity and abundance of key species	potential for major positive	potential for severe adverse impacts due to increased disturbance of key macrophyte communities, particularly in the Redmile to Woolsthorpe section	potential for slight positive impacts overall due to increased open water area	potential for moderate positive	potential for major positive	slight negative (no change option) to moderate positive depending on nature of partial restoration	2 and 6
Emergent vegetation communities	Local to County	increased abundance of marginal communities but associated decrease in species diversity	potential for moderate positive assuming control of non-native invasives	potential for moderate adverse impacts due to disturbance by boat traffic	potential for moderate positive impacts as maintaining emergent vegetation habitats and promoting diversity	potential for severe adverse impact due to substantial reduction in abundance of habitat and increased disturbance	Potential for moderate adverse impacts due to substantial reduction in extent of habitat	no change to major positive depending on nature of partial restoration	2 and 4
Reedbed	County	increase in extent of reedbed habitats	Potential for slight positive if management promotes increases in extent of reedbed in some areas	Moderate adverse impact due to habitat loss and high levels of disturbance by boat traffic	Slight adverse impact due to habitat loss, but less disturbance than option 3	Severe adverse impact due to almost total loss of habitat	Severe adverse impact due to almost total loss of habitat	severe adverse to major positive depending on nature of partial restoration	2 and 4
Bankside vegetation communities	Local to County	no change	potential for slight positive	slight adverse impacts to towpathside banks associated with increased mowing	As Option 3	As Option 3	As Option 3	Slight negative in restored sections. No significant change to existing in unrestored sections	

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Hedgerows	Local/ District	slight negative	potential for slight positive assuming sensitive hedgerow management	none anticipated	none anticipated	none anticipated	none anticipated	none anticipated	option 2 slightly preferred,
Terrestrial habitat mosaic	Local	no change from existing	no change or slight positive assuming that dry section is retained	severe adverse impact due to loss of dry section	severe adverse impact due to loss of dry section	severe adverse impact due to loss of dry section	severe adverse impact due to loss of dry section	no change/severe adverse depending on nature of partial restoration	Option 2 or Option 1
<u>Species</u>									
Grasswrack pondweed	National	continued decline in distribution and abundance of this species and likely eventual loss of the species from the canal	potential for major positive	potential for slight negative impact as new channel areas likely to be highly disturbed and key habitat will be located in zone of greatest disturbance	potential for slight positive impact	potential for slight positive, although the ecological status of the canal communities is likely to be compromised by high levels of disturbance	potential for major positive impact due to lower levels of disturbance from boat traffic than option 5	Potential for adverse or positive impacts depending on the nature of restoration	Option 6
Bats	District	no change anticipated	potential for slight positive impact due to increase open water availability, increasing hunting opportunities, particularly for Daubenton's bats	As option 2	As option 2	As option 2	As option 2	As option 2	No strongly preferred option

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Water vole	District	no change from existing	potential positive impact if management includes control of mink. Magnitude of impact would depend on the extent to which control could be achieved and the viability of any remnant populations	Potential for positive impact if restoration includes creation of reserve areas. Otherwise no change from existing due to presence of mink	As Option 3	As Option 3	As Option 3	As Option 3	Any option including mink control and/or creation of reserve areas suitable for use by water vole
Great-crested newt	District/ County	no change from existing	potential for moderate positive if management enhancements included targetted habitat improvements for great-crested newt	potential for severe adverse impacts to any population currently present within the dry section. However, it would be a legal requirement to fully mitigate these impacts through habitat creation/implementation of appropriate method statements to ensure no adverse effects remain	as Option 3	as Option 3	as Option 3	severe adverse to slight positive depending on nature of partial restoration	Option 2, although habitat creation associated with other options would negate this preference
Badger	District	no change from existing	none anticipated	none anticipated	none anticipated	none anticipated	none anticipated	none anticipated	No strongly preferred option

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Grass snake	District	no change from existing	potential for major positive	potential for moderate adverse impact due to removal of reedfringe and increased disturbance by unlimited boat movements.	potential for slight adverse impacts due to removal of reedfringe, but less disturbance than option 3	potential for moderate negative due to clearance of emergent vegetation and higher levels of disturbance	potential for moderate negative due to clearance of emergent vegetation	potential for slight adverse to slight positive impacts depending on nature of partial restoration	Options 1,2 and 4
Aquatic macroinvertebrates	Local	likely continued decline in diversity of aquatic invertebrate communities due to natural succession and continued declines in water quality	potential for slight positive impacts associated with increased habitat diversity and water supply, although many current impacts are water quality related and likely to require catchment-scale management	potential for slight negative impacts due to high levels of disturbance associated with boat traffic	Potential for slight positive impacts due to increased water supply and flow. Limited boat movements will result in less disturbance than Option 3	Potential for moderate adverse impacts due to reduction in extent of emergent vegetation and habitat diversity, along with high levels of disturbance	Potential for slight adverse impacts due to reduction in extent of emergent vegetation communities	potential for slight positive, although many current impacts are water quality related and likely to require catchment-scale management	Option 2, or Option 4
Terrestrial invertebrates	Local	no change from existing	potential for slight/moderate positive (assuming retention of deadwood in hedgerows)	potential for slight negative impacts (particularly associated with restoration of dewatered section)	potential for slight negative (particularly associated with restoration of dewatered section)	potential for slight negative (particularly associated with restoration of dewatered section)	potential for slight negative (particularly associated with restoration of dewatered section)	potential for slight negative (particularly associated with restoration of dewatered section)	Option 2 or option 7, assuming dry section is retained

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Birds	Local to County	slight positive impacts to species associated with reedbed/emergent vegetation due to increased extent of habitats	potential for slight/moderate positive	slight negative associated with removal of reedbed and increased disturbance	slight negative associated with removal of reedbed and increased disturbance	moderate negative associated with removal of reedbed and increased disturbance	moderate negative associated with removal of reedbed and increased disturbance	moderate negative to slight positive depending on nature of partial restoration	Ideally option 2. Otherwise Option 4