

Annex 4. Comparison of targets

Habitat	BAP target	Alde		Ouse		Blackmore Vale		Sherwood	
		NA Target	TA target	NA target	TA target	NA target	TA target	NA target	TA target
Heath land/acid grassland	Increase area by 10%, manage existing	Link existing areas sympathetically, create new areas next to existing or to create links	Increase area by 20%, manage existing	N/A	N/A	N/A	N/A	Secure protection and management of all remaining heathland. Control bracken and birch. Encourage management of heathland in FC holdings. Increase public participation.	Restore 30ha Create 30ha
Coastal and floodplain grazing marsh	Maintain existing, rehabilitate 33% by 2000, create an additional 8% by 2000	Ensure dykes managed sympathetically, maintain wet woodland, raise water levels	Increase area by 5%, increase proportion in ESA tier 2 and 2a by 10% and 5%	Manage along tradition lines to preserve species rich habitats	Ensure that 20% of the grassland in the floodplain is managed as extensively grazed or hay cropped, flood meadow	N/A	N/A	N/A	Restore 1ha of wet pasture Create 0.5 ha of wet pasture

Habitat	BAP target	Alde		Ouse		Blackmore Vale		Sherwood	
Reedbeds	Increase are by 24%, maintain /improve existing	Maintain existing, restore neglected, create new areas	Increase area by 20%, improve quality of existing	N/A	N/A	N/A	N/A	Secure water supply. Control vegetation succession. Improve water quality. Encourage habitat creation adjacent to rivers and streams. Promote diversity of natural river channels	Restore 1ha Create 0.5ha
Estuarine habitats	Maintain and enhance existing, prevent further losses	Minimize damage to existing, prevent further losses	Redress losses	N/A	N/A	N/A	N/A	N/A	N/A
Ancient and/or species-rich hedgerows	Halt net loss, achieve favourable management of 25% of existing by 2000 and 50% by 2005	Not a conservation priority	Improve quality, achieve favourable management of 25% by 2002 and 50% by 2007	Planting / regeneration to support farmland woodland birds, form wildlife corridors and links between existing and new habitats	Restore 20% of hedges identified as gappy. Replant 10% of hedgerows which have been lost.	Promote appropriate management	Restore 50% of poorly managed hedgerows to good management by 2005. Manage 25% of hedgerows and scrub in brown hairstreak areas by 2010	Improve management of hedges.	No target set

Habitat	BAP target	Alde		Ouse		Blackmore Vale		Sherwood	
Cereal field margins	Maintain, improve and restore 37.5% by 2010	Not a conservation priority	Improve quality of existing margins	No target	Achieve sympathetic management of field margins within 20% of the arable area	Encourage the creation and maintenance of corridors such as field margins on agriculturally improved land.	N/A	Encourage grass strips along hedges in arable fields, incorporate this with set aside. Encourage use of ELMS to restore, safeguard and recreate wildlife habitats within farmland.	Create 2km of 2m margins and 2km of 6m margins
Grassland restoration/creation	No target	N/A	N/A	Manage neutral grassland along traditional lines	Increase the amount of semi-improved grassland from 2.3% to 10% within the trial area	Maintain remaining unimproved grassland. Target adjacent land for restoration	Increase extent of flower rich grassland by 25% by 2010. At least 50% should be adjacent to existing s/n habitats Undertake 5ha of habitat restoration for marsh fritillary by 2010 Create 10ha of new habitat for marsh fritillary by 2010	Protect current extent of permanent grassland and field boundaries.	No target set

Habitat	BAP target	Alde		Ouse		Blackmore Vale		Sherwood	
Limestone grassland restoration/creation	Arrest depletion of lowland calcareous grassland, secure favourable condition of 30% by 2005 and all by 2015. Establish 1000ha of lowland calcareous grassland at selected sites by 2010	N/A	N/A	No specific target	Ensure that all existing areas of limestone grassland are in sympathetic management. Double the current extent of this habitat.	N/A	N/A	N/A	N/A
Pond restoration/creation	No target	N/A	N/A	Create farm ponds and ensure sympathetic management to support great crested newts	Ensure that every pond in the trial area has at least one healthy pond.	Promote appropriate management and restoration of ponds and the surrounding land	Ensure suitable management of 70% of ponds within 500m of great crested newt sites by 2010	No target set	No target set
Gravel pit restoration	No target	N/A	N/A	Maintain to support characteristic species especially birds	Increase the area of gravel pits under sympathetic wildlife management from 22% to 50%	N/A	N/A	Work closely with mineral extraction companies to ensure maximum benefit for wildlife	N/A

Habitat	BAP target	Alde		Ouse		Blackmore Vale		Sherwood	
River restoration	No target	N/A	N/A	Restore features of more natural river dynamics	Ensure that at least 25% of the main river meets specified criteria for low energy lowland clay rivers	Allow rivers and streams to develop natural, dynamic riverine habitat. Improve the structure of water courses where these have been altered	Manage 200m/km of riverbank by 2010 Manage 100m/km of stream bank by 2010	See under reedbeds	No target set
Woodland creation/restoration	No target	No target set	No target set	Encourage new planting adjacent to or linking existing sites. Sympathetic management of open space and dead wood. Remove conifers from mixed woodland.	Double the area of woodland from 2.5% to 5%. Ensure that all woods over 2ha are brought into sympathetic management	Ensure all ancient woods are appropriately managed. Promote a campaign for use of locally sourced wood.	Increase area of broadleaf woodland by 25% by 2010	Protect and manage ancient woodland. Reintroduce appropriate management	Restore 30ha. Create 20ha

Habitat	BAP target	Alde		Ouse		Blackmore Vale		Sherwood	
Parkland restoration	Maintain the current extent in favourable condition and restore 2500ha by 2010. Create 500ha by 2002	N/A	N/A	Encourage arable reversion to pasture	Restore all historic parkland	Produce a parkland inventory identifying the need for survey and restoration. Promote the value and management of veteran trees	Increase area by 10% by 2010	Seek restoration of wood-pasture.	Restore 1ha, create 0.7ha.

Annex 5. Restoration work by land ownership category

Selected habitats	Land ownership category (% contribution per ownership by area within each trial area)						
	Private farmer	Private non-farmer	Nature conservation NGO	Public body eg FC, MOD	Local authority	Mineral industry	Leisure industry
Heathland/acid grassland creation							
Alde	25%	37%	12%	27%	-	-	-
Ouse	-	-	-	-	-	-	-
BV	-	-	-	-	-	-	-
Sherwood	11%	-	-	43%	-	-	46%
Heathland/acid grassland restoration							
Alde	4%	73%	16%	7%	-	-	-
Ouse	-	-	-	-	-	-	-
BV	-	-	-	-	-	-	-
Sherwood	-	-	-	30%	-	-	70%
Grazing marsh restoration/creation							
Alde	99%	1%	-	-	-	-	-
Ouse	29%	2%	-	-	63%	5%	1%
BV	40%	60%	-	-	-	-	-
Sherwood	33%	-	-	-	-	-	67%
Other semi-natural grassland restoration							
Alde	-	-	-	-	-	-	-
Ouse (includes creation)	29%	2%	-	-	64%	-	5%
BV	14%	86%	-	-	-	-	-
Sherwood	-	-	-	-	-	-	-
Other semi-natural grassland creation							
Alde	-	-	-	-	-	-	-
Ouse (included above)	-	-	-	-	-	-	-
BV	33%	67%	-	-	-	-	-
Sherwood	29%	71%	-	-	-	-	-

Selected habitats	Land ownership category (% contribution per ownership by area within each trial area)						
Hedgerow creation							
Alde	77%	23%	-	-	-	-	-
Ouse (includes creation)	85%	-	-	-	15%	-	-
Blackmore Vale	-	100%	-	-	-	-	-
Sherwood	92%	-	-	-	-	-	8%
Hedgerow restoration							
Alde	100%	-	-	-	-	-	-
Ouse (included above)							
BV	53%	47%	-	-	-	-	-
Sherwood	82%	-	-	-	-	-	18%
Cereal field margin creation							
Alde	100%	-	-	-	-	-	-
Ouse	100%	-	-	-	-	-	-
BV	100%	-	-	-	-	-	-
Sherwood	100%	-	-	-	-	-	-
Woodland creation							
Alde	100%	-	-	-	-	-	-
Ouse (all woodland work)	85%	3%	-	-	10%	-	1%
BV	56%	33%	11%	-	-	-	-
Sherwood	27%	-	-	9%	-	27%	37%
Woodland restoration							
Alde	67%	33%	-	-	-	-	-
Ouse (included above)							
BV	42%	50%	8%	-	-	-	-
Sherwood	33%	-	-	-	-	33%	33%
Parkland restoration/creation							
Alde	-	-	-	-	-	-	-
Ouse	87%	9%	-	-	3%	-	1%
Blackmore vale	100%	-	-	-	-	-	-
Sherwood	75%	-	-	-	-	-	25%

Annex 6. Restoration work by funding option

Selected habitats	Funding mechanisms (% contribution per mechanism by area within each trial area)								
	CS	ESA	WGS	HRP	HLF	Local authority	LT	Own funds	Other
Heathland/acid grassland creation									
Alde	37%	5%	-	6%	48%	-	-	5%	-
Ouse	-	-	-	-	-	-	-	-	-
BV	-	-	-	-	-	-	-	-	-
Sherwood	28%	-	-	28%	-	-	-	44%	-
Heathland/acid grassland restoration									
Alde	44%	1%	-	4%	48%	-	-	2%	-
Ouse	-	-	-	-	-	-	-	-	-
BV	-	-	-	-	-	-	-	-	-
Sherwood	36%	-	-	-	-	-	-	0.4%	60%
Grazing marsh restoration/creation									
Alde	-	96%	-	1%	1%	-	-	-	2%
Ouse	51%	-	-	11%	-	23%	15%	1%	-
BV	34%	-	-	66%	-	-	-	-	-
Sherwood	100%	-	-	-	-	-	-	-	-
Other semi-natural grassland restoration									
Alde	-	-	-	-	-	-	-	-	-
Ouse	-	-	-	-	-	-	-	-	-
BV	58%	-	-	-	-	-	-	-	42%
Sherwood	93%	-	-	-	-	-	-	-	7%
Other semi-natural grassland creation									
Alde	-	-	-	-	-	-	-	-	-
Ouse	-	-	-	-	-	-	-	-	-
BV	91%	-	-	-	-	-	-	-	9%
Sherwood	100%	-	-	-	-	-	-	-	-

Selected habitats	Funding mechanisms (% contribution per mechanism by area within each trial area)								
	CS	ESA	WGS	HRP	HLF	Local authority	LT	Own funds	Other
Hedgerow creation									
Alde	77%	23%	-	-	-	-	-	-	-
Ouse	-	-	-	-	-	-	-	-	-
BV	100%	-	-	-	-	-	-	-	-
Sherwood	92%	-	-	-	-	4%	-	4	-
Hedgerow restoration									
Alde	100%	-	-	-	-	-	-	-	-
Ouse (includes creation)	85%	-	-	1%	-	-	14%	-	-
BV	98%	-	-	-	-	-	-	-	2
Sherwood	50%	-	-	21%	-	29%	-	-	-
Cereal field margin creation									
Alde	100%	-	-	-	-	-	-	-	-
Ouse	100%	-	-	-	-	-	-	-	-
BV	93%	-	-	-	-	-	-	-	7%
Sherwood	100%	-	-	-	-	-	-	-	-
Woodland creation									
Alde	-	-	100%	-	-	-	-	-	-
Ouse	-	-	-	-	-	-	-	-	-
BV	-	-	22%	-	-	7.5%	-	8%	1%
Sherwood	2%	-	58%	1%	-	2%	-	13%	24%
Woodland restoration									
Alde	-	-	83%	-	-	-	-	-	17%
Ouse (includes creation)	-	-	50%	2%	-	1%	8%	13%	26%
BV	-	-	98%	-	-	-	-	2%	-
Sherwood	-	-	2%	-	-	1%	-	67%	30%
Parkland restoration/creation									
Alde	-	-	-	-	-	-	-	-	-
Ouse	-	-	-	-	-	2.5%	97.5%	-	-
BV	-	-	-	100%	-	-	-	-	-
Sherwood	20%	-	-	-	-	4%	-	3%	76%

CS- Countryside Stewardship
ESA - Environmentally Sensitive Area Payments
WGS - Woodland Grant Scheme
HRP - Habitat Restoration Project funds
HLF - Heritage Lottery Funded heathland projects (Tomorrow's Heathland Heritage)
LT - Landfill tax
Own funds - Landowners own funds

1 Suffolk Coasts and Heaths Project
2 Farm Woodland Premium Scheme, Environment Agency,
3 Sponsor, LM

Annex 7. Criteria for funding restoration projects from Habitat Restoration Project funds

The following criteria were applied to all schemes seeking funding:

1. Proposals must not be eligible for other environmental land management schemes funding.
2. Project funds are available for one year except in exceptional circumstances.
3. Project that involve a one-off capital payment are likely to be favoured.
4. Project must involve new activities which actively contribute to habitat restoration, not research or monitoring of exiting ones.
5. Schemes will be judged on their value for money - ie projects which deliver most for least.
6. Projects which involve outside funding and or closely involve project partners will also be favoured.

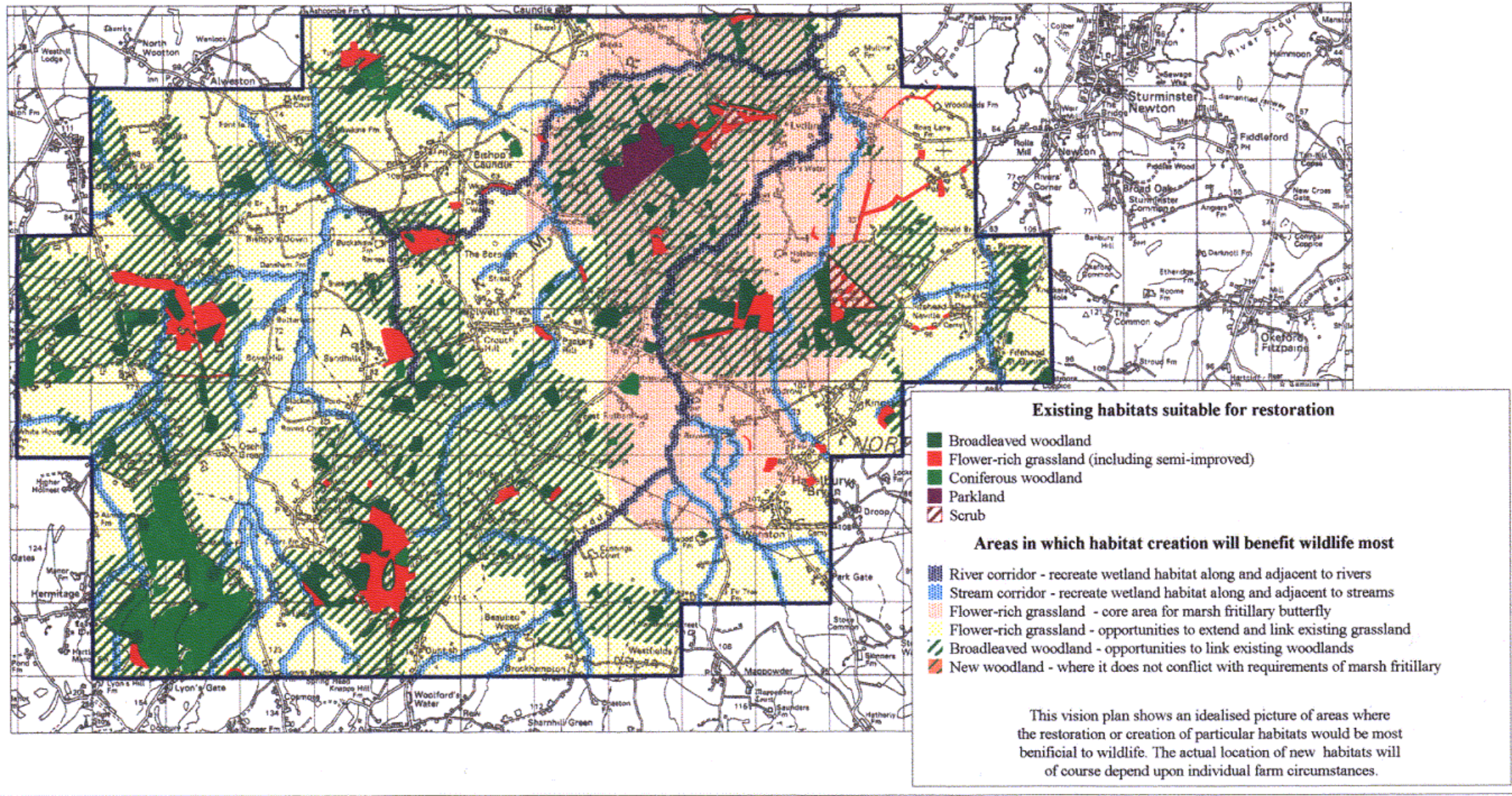
Annex 8. GIS tasks undertaken and costs involved

Task Undertaken	Approx cost in days or £
Creation of 'Vision' maps	30 days
Phase 1 digitising (2 Trial Areas)	150 days
Phase 1 digitising (2 Trial Areas)	£11,000 (£3000 and £8000)
Quality check of Phase 1 contracted data	25 days (high, because of poor digitising of Sherwood data)
Attribution and checking of Phase 1 data	14 days
Script to translate data into MapInfo	20 days
Quality checking of data in MapInfo	20 days (more time spent to be sure data was OK before any analysis was carried out).
Conversion of Phase 1 into BAP habitats	20 days (including time to write conversion script)
Basic analysis undertaken before and after restoration	55 days
Fragmentation analysis before and after restoration	55 days
Digitising of restoration/ creation sites	8 days
Spreadsheet built and linked to GIS to hold restoration/ creation information.	2 days
Creation of maps for validation monitoring	8 days
Creation of database to hold monitoring info.	?
Transect maps for species monitoring projects.	5 days
Creation of maps for final reports.	30 days
Development work	?

Enriching the Vale

Figure 1.1

A 'Vision' for Habitat Restoration



1:75000

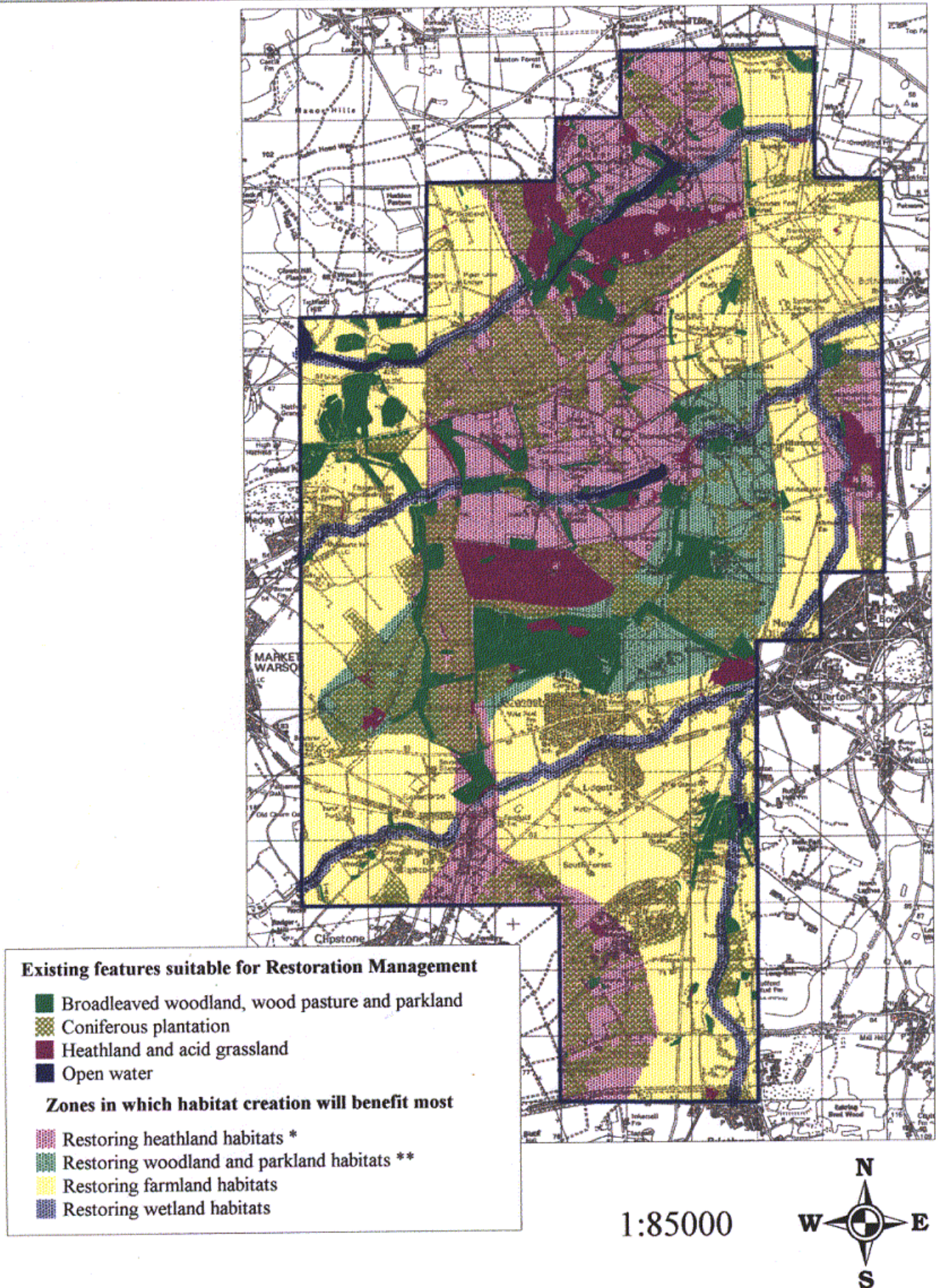


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Figure 1.2

A 'Vision' for Habitat Restoration



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Figure 1.3

A 'Vision' for Habitat Restoration



Existing Habitats Suitable for Restoration Management

- Rivers, Streams and Lakes
- Woodland
- Parkland
- Meadow on ridge and furrow
- Limestone grassland

Zones where Habitat Creation should be Technically Feasible

- Floodplain habitats (floodplain forest and alluvial grassland)
- Woodland
- Limestone grassland

1:100000

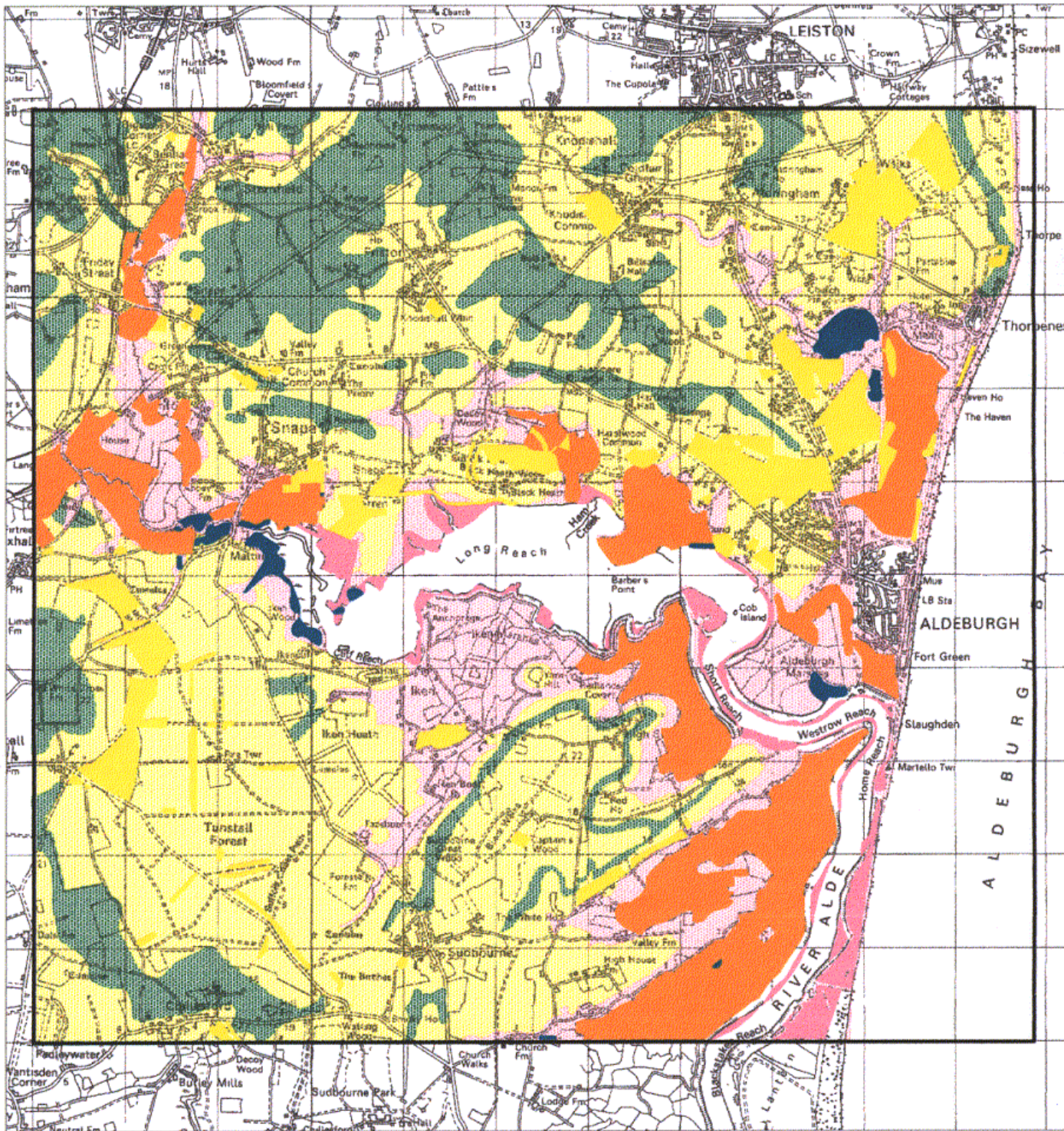


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Renewing the Alde

Figure 1.4

A 'Vision' for Habitat Restoration



Existing Habitats Suitable for Restoration Management

- Heathland and acid grassland
- Coastal floodplain grazing marsh
- Reedbed
- Saltmarsh

Zones where Habitat Creation should be Technically Feasible

- Heathland and acid grassland
- Wetland habitats (Coastal grazing marsh, reedbeds and saltmarsh)
- Farmland habitats



1:60000