Site name: 81 Grove Road Planning reference number:

CLC2023/00103

Existing	Havitat Alva	ineugerow	<b>Features</b>	<b>Biodiversity</b>	Hedgerow	<b>Biodiversity</b>
Onsite Biodiversity Impact	0.0442	0.0000	0.00	0.1532	0.0000	0.00
Indirect Biodiversity Impact	0.0000	0.0000	0.00	0.0000	0.0000	0.00
Total habitat / linear features impacted	0.0442	0.0000	0.00	0.1532	0.0000	0.00
Retained / Created / Enhanced						
Onsite biodiversity retained	0.0618	0.0000	0.00	0.1296	0.0000	0.00
Onsite Creation	0.0557	0.0000	0.00	0.1069	0.0000	0.00
Biodiversity retained and enhanced	0.0127	0.0000	0.00	0.0762	0.0000	0.00
Total biodiversity retained/enhanced	0.1302	0.0000	0.00	0.3127	0.0000	0.00
Trading Down	n/a	n/a	n/a	0.0000	0.0000	0.00
Biodiversity Impact	n/a	n/a	n/a	0.1595	0.0000	0.00

Habitat Impacts	Loss	Gain	Impact	%age losses	Compensatory Unit loss	Indicative Offset (ha)	LBS Offset units	LBS Offset Contribution
Woodland Habitat	0.0000	0.1649	0.1649	ď		,		
Grassland Habitat	0.0000	0.0000	0.0000					
Wetland Habitat	0.0000	0.0087	0.0087					
Other Habitat (incl. Built Env)	0.0236	0.0095	-0.0141			N	İΑ	£0.00
Total	0.0236	0.1831	0.1595	0	0.0000	0.0000	0.0000	£0.00
·		Trading down	0.0000		•			

The London
Borough of
Sutton
charges a tariff
for 'Other' loss
at £93,570 per
unit

Hedgerow Impacts	Loss	Gain	Trading down	Impact	Unit loss	Offset (ha)	units	Contribution
Hedgerow	0.00	0.00		0.00				

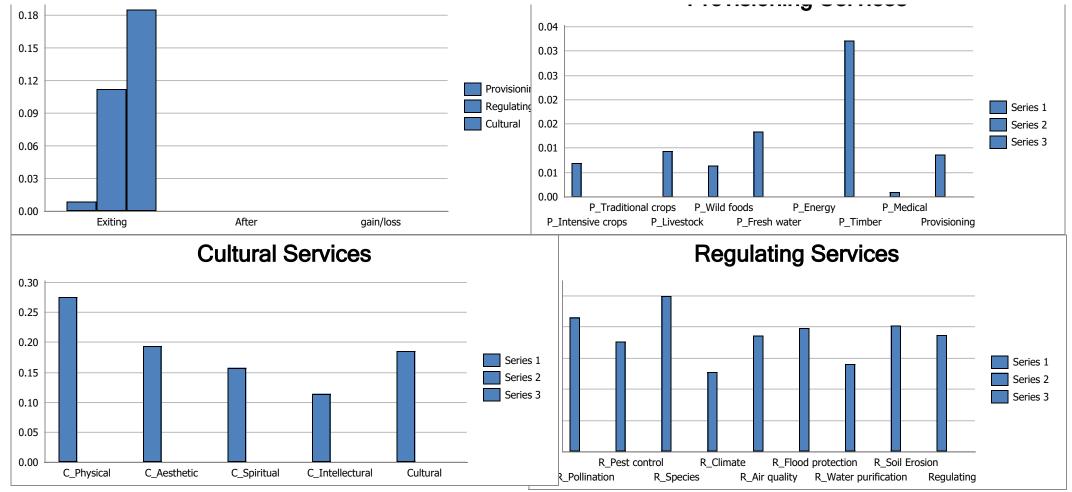
## **SUMMARY**

This development will result in 0.1595 Habitat Biodiversity Units gain; 0 Hedgerow Units loss and 0 Connectivity Biodivesity Units loss

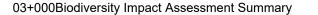
0.1595

## **ECOSYSTEM SERVICES ANALYSIS**

## **Provisioning Services**



For any questions with regard to biodiversity impact and this development please contact the London Borough of Sutton Senior Biodivesity Officer: email: biodiversity@sutton.gov.uk or telephone 020 8770 4203



## London Borough of Sutton - Habitat Impact Assessment Calculator

KEY	
	No action required
	Enter value
	Drop-down menu
	Calculation
	Automatic lookup
	Automatic Condition setting
	Result

Local Planning Authority:	London Borough of Sutton
Site name:	81 Grove Road
Planning application reference number:	CLC2023/00103
Assessor:	Isabel Soane
Date:	16/04/2024

Please fill in both tables

Please do not edit the formulae or structure To condense the form for display hide vacant r not delete them

If additional rows are required, or to provide fe the calculator please contact: biodiversity@su

•	result							Habitat Biodiversity Value					
		Existing habitats on site Please enter all habitats within the site bound	lary	Habitat disti	nctiveness	Habitat co	ondition	Habitats to be retained with no change within development Habitats to be retained and enhanced within development				be lost within elopment	
T. Note	code	Phase 1 habitat description	(ha)	Distinctiveness	Score	Condition	Score	Area (ha)	value value	Area (ha)	value	Area (ha)	Existing value
		Direct Impacts and retained habitats			А		В	С	D	E	$A \times B \times E = F$		$A \times B \times G = H$
	n/a	Built Environment: Buildings/hardstanding	0.0181	none	0	Poor	1	0.0000		0.0000		0.0181	0.0000
	n/a	Built Environment: Buildings/hardstanding	0.0060	none	0	Poor	1	0.0000		0.0000		0.0060	0.0000
	n/a	Built Environment: Buildings/hardstanding	0.0070	none	0	Poor	1	0.0000		0.0000		0.0070	0.0000
		Other: Introduced shrub	0.0002	Low	2	Poor	1	0.0000		0.0000		0.0002	0.0004
	J14	Other: Introduced shrub	0.0006	Low	2	Poor	1	0.0000		0.0000		0.0006	0.0012
	n/a	Built Environment: Gardens (lawn and planting)	0.0068	Low	2	Poor	1	0.0000		0.0000		0.0068	0.0136
	n/a	Built Environment: Gardens (lawn and planting)	0.0654	Low	2	Poor	1	0.0612	0.1224	0.0000		0.0042	0.0084
		Wetland: Standing water	0.0012	High	6	Moderate	2	0.0006	0.0072	0.0000		0.0000	0.0000
		Woodland: Scattered trees	0.0140	Medium	4	Moderate		0.0000		0.0127	0.0000	0.0013	
		Tota	0.1193				Total	0.0618	0.1296	0.0127	0.0000	0.0442	0.0236
		Tota	0.1193	4			TOtal	0.0018	0.1290	0.0127	0.0000	0.0442	$\sum D + \sum F + \sum H$
											ite habitat biod	divorcity value	
		Indirect Negative Impacts						Value of less t	from indirect i	mpacta	ite Habitat biot	aiversity value	0.1332
DEIU	เษ/สเเษเ	Including off cito habitate						Value of loss t = Li, Lii	rom indirect ii Li - Lii	npacis			
	Before		K					- LI, LII	LI - LII				
	After												
	Before												
	After												
	Before												
	After												
	Before												
	After												

 Before
 After
 0.0000
 M
 HIS = J + M

 Total
 0.0236

		Proposed habitats on site (Onsite mitigation)		Target ha	reness	Target habita				get condition	resto	of creation / ration	Habitat biodiversity
T. Note	code		Area (ha)	Distinctiveness	Score	Condition	Score		Time (years)	Score	Difficulty	Score	value
		Habitat Creation	N		0		Р			Q		R	R
	n/a	Built Environment: Gardens (lawn and planting)	0.0040	Low	2	Poor	1		3 Years	1.1	Low	1	0.0073
	n/a	Built Environment: Buildings/hardstanding	0.0213	none	0	Poor	1		3 Years	1.1	Low	1	0.0000
	n/a	Built Environment: Buildings/hardstanding	0.0164	none	0	Poor	1		3 Years	1.1	Low	1	0.0000
	G1	Wetland: Standing water	0.0012	High	6	Moderate	2		3 Years	1.1	Medium	1.5	0.0087
	n/a	Other: Living roof - Extensive sedum	0.0006	Low	2	Moderate	2		3 Years	1.1	Low	1	0.0022
	A3	Woodland: Scattered trees	0.0122	Medium	4	Moderate	2		3 Years	1.1	Low	1	0.0887
		Total	0.0557	ERROR - Total				a of habitats lo	st				
		Habitat Enhancement						value S (̄ =					((NxOxP)-S)/Q/R
	A3	Woodland: Scattered trees	0.0127	Medium	4	Good	3		20 years	2	Low	1	0.08
igsquare													
		Total	0.0127							Tr	ading down co	orrection value	0.0000
										Habi	tat Mitigation	Score (HMS)	0.1831
													HBIS = HMS - HIS
										11.14.4	Disalis 11	I	
												Impact Score	
										Percentag	ge of biodivers	ity impact loss	

	Loss	Gain	Impact
Woodland Habitat	0.0000	0.1649	0.1649
Grassland Habitat	0.0000	0.0000	0.0000
Wetland Habitat	0.0000	0.0087	0.0087
Other Habitat (including Built Environment)	0.0236	0.0095	-0.0141
Total	0.0236	0.1831	0.1595
		down	0.0000
·			0.1595

edback on tton.gov.uk

Comments and justification for habitat type and condition
This section was 'artificial unvegetated, unsealed surface', however this is not an option in the Su
ndividual trees in the garden
J

comments and justification for nabitat type, condition value and temporal risk (if different
for "Habitat Dataila" datault agaring)
a 0.0013 ha loss from pre to post development.

Gain



## **London Borough of Sutton - Hedge Impact Assessmer**

KEY	
	No action required
	Enter value
	Drop-down menu
	Calculation
	Automatic lookup
	Result

This sheet calcu around the site.

These units are or Connectivity |

	Existing Hedgerow features on site				
T. Note	code	Hedgerow habitat description	lenath (km)	Distinctiveness	
	3000	Direct Impacts and retained features	July (Lucy)		
		T	0.000		
		Total	0.000		
Deic	ne/ailei	Indirect Negative Impacts	К		
	Before				
	After				
	Before				
	After				
	Before				
	After				
	Before				
	After				
	Before				
	After				
		Total	0.000		

	Proposed hedge features on site (Onsite mitigation)				
T. Note	code	Phase 1 habitat description	(km)	Distinctiveness	
		Hedgerow Creation	N		

	Total	0.000	
	Hedgerow Enhancement	0.000	
	Trougerow Emigneement		
-			
-			
		0.000	
	Total	0.000	

KEY	
	No action required
	Action required
	Drop-down menu
	Calculation
	Automatic lookup
	Overall Gain
	Overall Loss

## **nt Calculator**

ılates the impacts to hedges and lines of trees in and

not transferrable as compensation for either the Habitat Impact Assessment scores.

tinctiveness	Hedgerow condition assessments (Tab					
Score	A1	A2	B1	B2	C1	C2
A			_			<u> </u>

nedge /eness				Hedgerow co	ondition asse	ssments (Tab
Score	A1	A2	B1	B2	C1	C2
0						

## Please fill in both tables

Please do not edit the formula vacant rows, do not delete them

If additional rows are require or to provide feedback on the please contact biodiversity.

Totals 0.000 0.0000 0.000 0.0000 Site Hedge B  Value of loss from indirect impacts = Li, Lii	8)			Hedgerow fe retained with within dev	atures to be no change		
C	D1	D2	Score	Length (km)	value	Length (km)	value
Totals 0.000 0.0000 0.000 0.0000 Site Hedge B  Value of loss from indirect impacts  = Li, Lii					D		
Value of loss from indirect impacts  = Li, Lii							
Value of loss from indirect impacts  = Li, Lii							
Value of loss from indirect impacts  = Li, Lii							
Value of loss from indirect impacts  = Li, Lii							
Value of loss from indirect impacts  = Li, Lii							
Value of loss from indirect impacts  = Li, Lii							
Value of loss from indirect impacts  = Li, Lii							
Value of loss from indirect impacts  = Li, Lii							
Value of loss from indirect impacts  = Li, Lii							
Value of loss from indirect impacts  = Li, Lii							
Value of loss from indirect impacts  = Li, Lii							
Value of loss from indirect impacts  = Li, Lii							
Value of loss from indirect impacts  = Li, Lii							
Value of loss from indirect impacts  = Li, Lii							
Value of loss from indirect impacts  = Li, Lii							
Value of loss from indirect impacts  = Li, Lii			Totals	0.000	0.0000	0.000	0.0000
Value of loss from indirect impacts  = Li, Lii			IUlais	0.000	0.0000	0.000	0.0000
Value of loss from indirect impacts  = Li, Lii							O'the Line Inc. D'
= Li, Lii							Site Heage B
0.00 M						npacts	
				= Li, Lii	Li - Lii		
					0.00	M	
Hedge Impa							Hedge Impa

8)			Time till target condition		
D1	D2	Score	Time (years)	Score	Difficulty
				Q	

	value S ( =			
				Trading down
			He	edge Mitigatic
		Hedge	Biodiversity	Impact Score
		Perd	entage of line	Impact Score ar impact loss

ılae or structure

ed, ne calculator sutton.gov.uk

ue		
Hedgerow fea		
Length (km)	value	Commen
G	Н	
0.000	0.0000	J
	Δη Γο , ζι ,	
iodiversity Value	0.0000	
	HIS = J + M	
ct Score (HIS)	0.0000	

of creation / pration	Linear biodiversity	
Score	value	Commen
R	Q/R	

	(( N X U X F)	
		-
4:	0.0000	
correction value	0.0000	
on Score (HMS)	0.0000	
LIDIC -		
0.0000		
	•	

t	

t

## Habitat trading down correction calculator

**Existing Site** 

Built Environment: Buildings/hardstanding 0.0060 none	0.00
Built Environment: Buildings/hardstanding 0.0181 none Built Environment: Buildings/hardstanding 0.0060 none	
Built Environment: Buildings/hardstanding 0.0060 none	
	200
	0.00
5 5	0.00
	0.00
	0.00
1 0/	0.00
1 0/	0.00
	000
	0.00
0.0000	0.00
0.0000	0.00
0.0000	0.00
0.0000	0.00
0.0000	0.00
0.0000	0.00
0.0000	0.00
0.0000	0.00
0.0000	0.00
0.0000	0.00
0.0000	0.00
0.0000	0.00
0.0000	0.00
0.0000	0.00
0.0000	0.00
0.0000	0.00
0.0000	0.00
0.0000	0.00
0.0000	0.00
0.0000	0.00
0.0000	0.00
Indirect impacts	
	0.00
	0.00
	0.00
	0.00
	0.00
TOTAL 0.0442 0.0000	

**Proposed Site** 

Proposed Site			
Proposed habitat creation	habitat	Distilictivenes	proposed
	0.0040	Low	0.00
Built Environment: Buildings/hardstanding	0.0213	none	0.00
Built Environment: Buildings/hardstanding	0.0164	none	0.00
Wetland: Standing water	0.0012	High	0.0087
Other: Living roof - Extensive sedum	0.0006	Low	0.00
Woodland: Scattered trees	0.0122	Medium	0.00
0.0000	0.0000		0.00
0.0000	0.0000		0.00
0.0000	0.0000		0.00
0.0000	0.0000		0.00
0.0000	0.0000		0.00
0.0000	0.0000		0.00
0.0000	0.0000		0.00
0.0000	0.0000		0.00
0.0000	0.0000		0.00
			0.00
Proposed habitat enhancement	Area	DISTILICTIVELIES	High
Proposed habitat enhancement Woodland: Scattered trees		Medium	
Proposed habitat enhancement Woodland: Scattered trees 0.0000	Area 0.0127 0.0000	0	High 0.00 0.00
Proposed habitat enhancement Woodland: Scattered trees 0.0000 0.0000	Area 0.0127 0.0000 0.0000	0	High 0.00 0.00 0.00
Proposed habitat enhancement Woodland: Scattered trees 0.0000 0.0000 0.0000	Area 0.0127 0.0000 0.0000 0.0000	0	High 0.00 0.00 0.00 0.00 0.00
Proposed habitat enhancement Woodland: Scattered trees 0.0000 0.0000 0.0000 0.0000	Area 0.0127 0.0000 0.0000 0.0000 0.0000	0	High 0.00 0.00 0.00 0.00 0.00
Proposed habitat enhancement Woodland: Scattered trees 0.0000 0.0000 0.0000 0.0000 0.0000	Area 0.0127 0.0000 0.0000 0.0000 0.0000 0.0000	0	High 0.00 0.00 0.00 0.00 0.00 0.00 0.00
Proposed habitat enhancement Woodland: Scattered trees 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	Area 0.0127 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0	High 0.00 0.00 0.00 0.00 0.00 0.00 0.00
Proposed habitat enhancement Woodland: Scattered trees 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	Area 0.0127 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0	High 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.
Proposed habitat enhancement Woodland: Scattered trees 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	Area 0.0127 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0	High  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
Proposed habitat enhancement  Woodland: Scattered trees  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000	Area 0.0127 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0	High  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
Proposed habitat enhancement Woodland: Scattered trees 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	Area 0.0127 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0	High  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
Proposed habitat enhancement  Woodland: Scattered trees  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000	Area 0.0127 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0	High  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
Proposed habitat enhancement  Woodland: Scattered trees  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000	Area 0.0127 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0	High  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
Proposed habitat enhancement  Woodland: Scattered trees  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000	Area 0.0127 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0	High  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
Proposed habitat enhancement  Woodland: Scattered trees  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000	Area 0.0127 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0	High  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00

Trading Down Correction	High
Value of existing habitat loss per distinctiveness	0.0000
Value of created habitats per distinctiveness	0.0087
Would this result in trading down habitats?	Never
If no, value each distinctiveness still requiring compensation	0
rplus gain to be carried over to compensate loss of lower habitats (rolls over)	0.0087
Trading down correction value	n/a

This calculator assess whether there is any down trading in habitats value. E.g. loss of high distin calculates a correction value which enters into the primary calculator to take this into account. Su additional medium gain is generated above the value of the high loss, this surplus is still be taken

CAUTION - Destruction of habitats of high distinctiveness, e.g. lowland meadow or ancient wood the mitigation hierarchy been followed, can impact to these habitats be avoided? Any unavoidable loss of habitats of high distinctiveness must be replaced like-for like.

uistirictiveriess	uistirictiveriess	uistirictiveriess	uistirictiveriess	habitat loss
hanitat laaa	hantat laaa	honitat loog	honitat loog	
0.00	0.00	0.00	0.00	0.0000
0.00	0.00	0.00	0.00	0.0000
0.00	0.00	0.00	0.00	0.0000
0.00	0.00	0.00	0.0004	0.00
0.00	0.00	0.00	0.0012	0.00
0.00	0.00	0.00	0.0136	0.00
0.00	0.00	0.00	0.0084	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.0000	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.0000	0.0000	0.0000	0.0236	0.0000

uistirictiveriess	uistiiictiveiless	uisuiicuveiiess	uistiiictiveiiess	proposed
0.00	0.00	0.00	0.0073	0.00
0.00	0.00	0.00	0.00	0.0000
0.00	0.00	0.00	0.00	0.0000
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.0022	0.00
0.00	0.0887	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
Medium-High	Medium	Medium-Low	Low	None
0.00	0.0762	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.0000	0.1649	0.0000	0.0095	0.0000

Medium-High	Medium	Medium-Low	Low	None
0.0000	0.0000	0.0000	0.0236	0.0000
0.0000	0.1649	0.0000	0.0095	0.0000
No	No	No	No	No
0	0	0	0	0.0000
0.0087	0.1736	0.1736	0.1595	n/a
0	0	0	0	0

ictiveness habitat cannot be compensated for by surpluss medium mitigation. It ch that the full level of high habitat loss compensation is required. However if into account with on site gain.

land, may be against local policy. Has



## Hedgerow trading

**Existing Site** 

Existing Site		
Existing Hedgerow features	length of loss (km)	Distinctiveness
Direct impacts		
	0.00	
-	0.00	
-	0.00	
-	0.00	
-	0.00	
-	0.00	
-	0.00	
-	0.00	
-	0.00	
-	0.00	
-	0.00	
-	0.00	
-		
-	0.00	
-	0.00	
-	0.00	
-	0.00	
-	0.00	
-	0.00	
-	0.00	
-	0.00	
-	0.00	
-	0.00	
-	0.00	
-	0.00	
-	0.00	
-	0.00	
-	0.00	
-	0.00	
-	0.00	
-	0.00	
Indirect impacts		
-	-	
-	-	
-	-	
-	-	
-	-	
TOTAL	0.00	

**Proposed Site** 

1 reposed Gite		
Proposed hedgerow creation	Length of feature (km)	Distinctiveness
•	0.00	
-	0.00	
-	0.00	
-	0.00	
-	0.00	
-	0.00	

-	0.00	
-	0.00	
-	0.00	
-	0.00	
-	0.00	
-	0.00	
-	0.00	
-		
-	0.00	
Proposed hedgerow enhancement	Length	Distinctiveness
-	0.00	
-	0.00	
-	0.00	
-	0.00	
-	0.00	
-	0.00	
-	0.00	
-	0.00	
-	0.00	
-	0.00	
-	0.00	
-	0.00	
-	0.00	
-	0.00	
-	0.00	
TOTAL		

Hedgerow trading down correction

Treagerow tracing down correction
Value of existing habitat loss per distinctivenes
Value of created habitats per distinctivenes
Would this result in trading down habitats
If no, value each distinctiveness still requiring compensatio
Surplus gain to be carried over to compensate loss of lower habitats (rolls over
Trading down correction valu

This calculator assess whether there is any down trading in Hedgerow habitats. E.g. loss correction value which enters into the primary calculator to take this into account. Such the generated above the value of the high loss, this surplus is still be taken into account with a

CAUTION - Destruction of each habitat of medium distinctiveness and above should be m

## a down correction calculator

High distinctiveness Hedgerow loss biodiversity value	Medium-High distinctiveness Hedgerow loss biodiversity value	Medium distinctiveness Hedgerow loss biodiversity value	Medium-Low distinctiveness Hedgerow loss biodiversity value	Low distinctiveness Hedgerow loss biodiversity value
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00

High distinctiveness proposed Hedgerow biodiversity value	Medium-High distinctiveness proposed Hedgerow biodiversity value	Medium distinctiveness proposed Hedgerow biodiversity value	Medium-Low distinctiveness proposed Hedgerow biodiversity value	Low distinctiveness proposed Hedgerow biodiversity value
0.000	0.00	0.00	0.00	0.00
0.000	0.00	0.00	0.00	0.00
0.000	0.00	0.00	0.00	0.00
0.000	0.00	0.00	0.00	0.00
0.000	0.00	0.00	0.00	0.00
0.000	0.00	0.00	0.00	0.00

	0.000	0.00			0.00
	0.000	0.00	0.00	0.00	0.00
	0.000	0.00	0.00	0.00	0.00
	0.000	0.00	0.00	0.00	0.00
	0.000	0.00	0.00	0.00	0.00
	0.000	0.00	0.00	0.00	0.00
	0.000	0.00	0.00	0.00	0.00
	0.000	0.00	0.00	0.00	0.00
	0.000	0.00	0.00	0.00	0.00
	High	Medium-High	Medium	Medium-Low	Low
0.00		0.00	0.00	0.00	0.00
0.00		0.00	0.00	0.00	0.00
0.00		0.00	0.00	0.00	0.00
0.00		0.00	0.00	0.00	0.00
0.00		0.00	0.00	0.00	0.00
0.00		0.00	0.00	0.00	0.00
0.00		0.00	0.00	0.00	0.00
0.00		0.00	0.00	0.00	0.00
0.00		0.00	0.00	0.00	0.00
0.00		0.00	0.00	0.00	0.00
0.00		0.00	0.00	0.00	0.00
0.00		0.00	0.00	0.00	0.00
0.00		0.00	0.00	0.00	0.00
0.00		0.00	0.00	0.00	0.00
0.00		0.00	0.00	0.00	0.00
	0.000	0.000	0.000	0.000	0.000

High	Medium-High	Medium	Medium-Low	Low
0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000
Never	No	No	No	No
0	0	0	0	0.000
0	0	0	0	n/a
n/a	0	0	0	0

of high distinctiveness habitat and surplus creation of medium or low habitats. It calculates a at the full level of high habitat loss compensation is required. However if additional medium gain is on site gain.

nitigated for with creation/restoration of a similar habitat. Trading up of habitat type is encouraged.

Total **0.000** 

## **London Borough of Sutton - Connectivity Impact Assessment [optional]**

KEY	
	No action required
	Enter value
	Drop-down menu
	Calculation
	Automatic lookup
	Result

## **Connectivity Features**

This sheet gives and indication as to whether the development will enhance connectivity thorugh or around the site.

These units are not transferrable as compensation for either the Habitat or Hedgerow Impact Assessment scores.

	Existing Connectivity features on site			Connectivity distinctiveness		Connectivity condition		be retaine change
T. Note	code	Phase 1 habitat description	length (km)	Distinctiveness	Score	Condition	Score	Length (km)
		Direct Impacts and retained features			А		В	С

	Total	0.00		Total	0.00
	In Process No. of the Lands of the				
					Value of loca :
e/aitei	Indirect Negative Impacts	K			Value of loss t
impost	Indirect Negative Impacts	K			Value of loss t
import Before		K			Value of loss i
impost		K			Value of loss t = Li, Lii
impost Before After		К			Value of loss t = Li, Lii
Before After Before After Before		K			Value of loss i
Before After Before After Before After After		K			Value of loss t
Before After Before After Before After Before After Before		K			Value of loss i
Before After Before After Before After Before After After After After		K			Value of loss i
Before After Before After Before After Before After Before After Before		K			Value of loss
Before After Before After Before After Before After After After After					Value of loss in a Li, Lii

	Proposed linear features on site (Onsite mitigation)			Target Connectivity Target Connectivity distinctiveness condition				
T. Note	code	Phase 1 habitat description	(km)	Distinctiveness	Score	Condition	Score	
		Phase 1 habitat description Connectivity Creation	N		0		Р	
		Total	0.00					
		Connectivity Enhancement	0.00					value S ( =
								,
		Total	0.00					

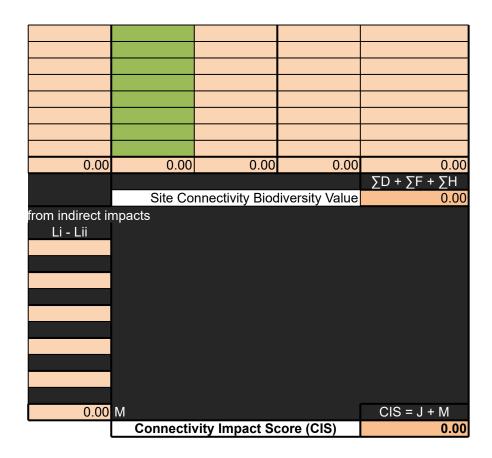
## Please fill in both tables

Please do not edit the formulae or structure

To condense the form for display hide vacant rows, do not delete them

If additional rows are required, or to provide feedback on the calculator please contact biodiversity@sutton.gov.uk

	Connectivity Biodiversity Value / reatures to   Connectivity reatures to					
	Connectivity	y reatures to				
d with no		ned and	Connectivity features to be			
· within		ed within	lost within	development		
nment		nment				
value	Length (km)	value	Length (km)	Existing value		
D	Е	$A \times B \times E = F$	G	$A \times B \times G = H$		



	get condition	resto	Difficulty of creation / restoration	
Time (years)	Score	Difficulty	Score	biodiversity value
	Q		R	P) / Q / R
				((NXUXF)-
	Tra	ading down co	rrection value	0.00

Connectivity Mitigation Score (CMS	0.00
	CIG - CIVIO -
Connectivity Biodiversity Impact Score	0.00
Percentage of linear impact los	

Comment	

J	

Comment	

## Linear trading down correc

**Existing Site** 

Existing Site			
Existing linear features	Jose (km)	Distilletiveries	linear less
Direct impacts			
•			0.00
-			0.00
-			0.00
-			0.00
-			0.00
-			0.00
-			0.00
-			0.00
-			0.00
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-			0.00
-			0.00
-			0.00
-			0.00
-			0.00
-			0.00
-			0.00
-			0.00
-			0.00
-			0.00
Indirect impacts			
-	-		0.00
-	-		0.00
-	-		0.00
-	-		0.00
-	-		0.00
TOTAL	0.00		0.00

**Proposed Site** 

Proposed Site	<del>U</del>	DISUITCUVEITES	uistirictiveriess
Proposed linear creation	footuro	_	nroposad linear
<u> </u>	0.00		0.00
-	0.00		0.00
-	0.00		0.00
<u> </u>	0.00		0.00
-	0.00		0.00
-	0.00		0.00
-	0.00		0.00
-	0.00		0.00
<del>-</del>	0.00		0.00
-	0.00		0.00
-	0.00		0.00
-	0.00		0.00
-	0.00		0.00
-	0.00		0.00
-	0.00		0.00
Proposed linear enhancement	Length	Distillictivenes	High
-	0.00		0.00
-	0.00		0.00
-	0.00		0.00
-	0.00		0.00
-	0.00		0.00
-	0.00		0.00
-	0.00		0.00
-	0.00		0.00
-	0.00		0.00
-			
	0.00		0.00
	0.00		0.00
-			
- -	0.00		0.00
- - -	0.00 0.00 0.00		0.00 0.00 0.00
- - -	0.00		0.00 0.00

Linear trading down correction	High
Value of existing habitat loss per distinctiveness	0.00
Value of created habitats per distinctiveness	0.00
Would this result in trading down habitats?	Never
If no, value each distinctiveness still requiring compensation	0
is gain to be carried over to compensate loss of lower habitats (rolls over)	0
Trading down correction value	n/a

This calculator assess whether there is any down trading in linear habitats. E.g. loss of high di calculates a correction value which enters into the primary calculator to take this into account. additional medium gain is generated above the value of the high loss, this surplus is still be taken the calculator of the high loss.

CAUTION - Destruction of each habitat of medium distinctiveness and above should be mitiga encouraged.

## tion calculator

uistirictiveriess	uistirictiveriess	uistirictiveriess	UISUITICUVETIESS
IIInaar 1000	linoar loog	linoar loog	linear leed
0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00
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0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00
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0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00

proposed linear	proposed linear	proposed linear	uistinetiveness
0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00
Medium-High	Medium	Medium-Low	Low
0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00
0.00			
	0.00	0.00	0.00
0.00	0.00	0.00	0.00
0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00

Medium-High	Medium	Medium-Low	Low	
0.00	0.00	0.00	0.00	
0.00	0.00	0.00	0.00	
No	No	No	No	
0	0	0	0.00	
0	0	0	n/a	Total
0	0	0	0	0.00

stinctiveness habitat and surplus creation of medium or low habitats. It Such that the full level of high habitat loss compensation is required. However if cen into account with on site gain.

ited for with creation/restoration of a similar habitat. Trading up of habitat type is

Phase 1 Habitat Type	Phase 1 Habitat Codes	Distincti	veness	Difficulty	of creation	Preset Time to Target Condition (Moderate)	Preset Time to Target Condition (Good)	Difficulty o	f restoration	Preset Time to Target Condition (Moderate)	Preset Time to Target Condition (Good)	UK Priority Habitat /Habitat of Principal Importance
Built Environment: Buildings/hardstanding	n/a	none	0	Low	1	n/a	n/a	Low	1	n/a	n/a	Not a priority habitat
Built Environment: Gardens (lawn and	n/a	Low	2	Low	1	3 years	5 years	Low	1	n/a	n/a	Not a priority habitat
Woodland: Broad-leaved semi-natural	A111	High	6	n/a	-	n/a	n/a	Low	1	10	W_in_P	Lowland mixed
Woodland: Broad-leaved plantation	A112	Medium	4	Medium	1.5	27 years	32+ years	Low	1	10	W_in_P	Not a priority habitat
Woodland: Coniferous semi-natural	A121	Medium	4	n/a	-	n/a	n/a	Low	1	n/a	n/a	Native pine
Woodland: Coniferous plantation	A122	Low	2	Medium	1.5	25	n/a	Low	1	n/a	n/a	Not a priority habitat
Woodland: Mixed semi-natural woodland	A131	Medium	4	n/a	-	n/a	n/a	Low	1	W_in_P	W_in_P	Lowland mixed
Woodland: Mixed plantation	A132	Low	2	Medium	1.5	25	32+ years	Low	1	W_in_P	W_in_P	Not a priority habitat
Woodland: Wet woodland	n/a	High	6	Medium	1.5	15 years	32+ years	Medium	1.5	W_in_P	W_in_P	Wet woodland
Woodland: Dense continuous scrub	A21	Medium-Low	3	Low	1	10 years	15 years	Low		W_in_P	W_in_P	Not a priority habitat
Woodland: Scattered scrub Woodland: Scattered trees	A22 A3	Medium Medium	4	Low	1	10 years 27 years	15 years	Low	1	W_in_P W in P	W_in_P W in P	Not a priority habitat Not a priority habitat
Woodland: Scattered trees Woodland: Broad-leaved parkland	A31		6	Medium	1.5	n/a	n/a	Low	1	W in P	W in P	Wood-pasture and
Woodland: Broad-leaved parkland Woodland: Coniferous parkland	A32	High Medium	4	Medium	1.5	n/a	n/a	Low	1	W in P	W in P	Not a priority habitat
Woodland: Confierous parkiand Woodland: Recently felled woodland	A32 A4	High	6	Low	1.0	n/a	n/a	Low	1	n/a	n/a	n/a
Woodland: Orchard	A5	High	6	Low	1	10	32+ years	Low	1	W in P	W in P	Traditional orchard
Grassland: Unimproved acidic grassland	B11	High	6	High	3	20 years	32+ years	High	3	15 years	32+ years	Lowland dry acid
Grassland: Onlinproved acidic grassland Grassland: Semi-improved acidic grassland	B12	Medium-High	5	Medium	1.5	15 years	20 years	Low	1	10 years	15 years	Lowland dry acid
Grassland: Unimproved neutral grassland	B21	High	6	High	3	9 years	15 years	Medium	1.5	10 years	15 years	Lowland meadow
Grassland: Semi-improved neutral grassland	B22	Medium	4	Low	1	10 years	15 years	Low	1.0	10	W in P	Lowland meadow
Grassland: Unimproved calcareous	B31	High	6	High	3	20	32+ years	High	3	15	25	Lowland calcareous
Grassland: Semi-improved calcareous	B32	Medium-High	5	Medium	1.5	15 years	25	Medium	1.5	10	15	Lowland calcareous
Grassland: Poor semi-improved grassland	B6	Medium-Low	3	Medium	1.5	5 years	10 years	Low	1.5	n/a	n/a	Not a priority habitat
Grassland: Improved grassland	B4	Low	2	n/a	1.0	3 years	n/a	Low	1	n/a	n/a	Not a priority habitat
Grassland: Marsh / Marshy grassland	B5	High	6	High	3	10 years	W in P	Medium	1.5	W in P	W in P	Coastal and
Grassland: Dry heath / Acidic grassland	D5	High	6	High	3	20 years	32+ years	Medium	1.5	10 years	25 years	Lowland heathland
Grassland: Set-aside / Arable field margins	J113	High	6	Low	1	3 years	n/a	Low	1.5	W in P	W in P	Arable field margins
Grassland: Amenity grassland	J12	Low	2	Low	1	3 years	n/a	Low	1	n/a	n/a	Not a priority habitat
Wetland: Standing water	G1	High	6	Medium	1.5	3 years	5	Low	1	3	5	Ponds
Wetland: Running water	G2	High	6	Medium	1.5	15 years	W in P	Medium	1.5	W in P	W in P	Rivers & streams
Wetland: Reedbed	F1	High	6	Medium	1.5	10 years	15 years	Medium	1.5	10 years	15 years	Reedbeds
Wetland: Swamp	F1	High	6	Medium	1.5	5 years	10 years	Medium	1.5	15	W in P	Lowland fens
Wetland: Marginal vegetation	F21	High	6	Low	1	3 years	5 years	Low	1	3 years	5 years	
Wetland: Inundation vegetation	F22	High	6	Low	1		5 years	Low	1	3 years	5 years	Not a priority habitat
Other: Arable	J11	Low	2	n/a	1-	n/a	n/a	n/a	-	n/a	n/a	Not a priority habitat
Other: Continuous bracken	C11	Low	2	Low	1	n/a	n/a	Low	1	n/a	n/a	Not a priority habitat
Other: Tall ruderal	C31	Medium-Low	3	Low	1	n/a	n/a	Low	1	n/a	n/a	Not a priority habitat
Other: Non-ruderal	C32	Medium	4	Low	5	10	W in P	Low	1	W in P	W in P	Not a priority habitat
Other: Ephemeral/short perennial	J13	Low	2	Low	1	n/a	n/a	Low	1	n/a	n/a	Not a priority habitat
Other: Allotments	J112	Low	2	Low	1	n/a	n/a	Low	1	n/a	n/a	Not a priority habitat
Other: Quarry	121	Low	2	Low	1	n/a	n/a	Low	1	n/a	n/a	Not a priority habitat
Other: Spoil	122	Low	2	Low	1	n/a	n/a	Low	1	n/a	n/a	Not a priority habitat
•	124	Low	2	+		n/a	1				1	

Other: Introduced shrub	J14	Low	2	Low	1	n/a	n/a	Low	1	n/a	n/a	Not a priority habitat
Other: Bare ground	J4	Low	2	Low	1	n/a	n/a	Low	1	n/a	n/a	Not a priority habitat
Other: Vertical face (correction factor)	n/a	none	0	Low	1	W_in_P	W_in_P	Low	1	W_in_P	W_in_P	
Other: Living Wall	n/a	Low	2	Low	1	3 years	5 years	Low	1	W_in_P	W_in_P	
Other: Living roof - Extensive sedum	n/a	Low	2	Low	1	3 years	5 years	Low	1	W_in_P	W_in_P	
Other: Living roof - Extensive hybrid sedum	n/a	Medium low	3	Low	1	3 years	5 years	Low	1	W_in_P	W_in_P	
Other: Living roof - Extensive biodiverse	n/a	Medium	4	Low	1	5 years	10 years	Low	1	W_in_P	W_in_P	
Other: Living roof - Intensive	n/a	Low	2	Low	1	3 years	5 years	Low	1	W_in_P	W_in_P	
Other: Living roof - Semi-intensive	n/a	Medium-Low	3	Low	1	3 years	5 years	Low	1	W_in_P	W_in_P	
Other: Bioswale / Rain Garden / SuDS	n/a	Medium-low	3	Low	1	3 years	5 years	Low	1			n/a
Linear features												
Hedges: Intact hedge	J21	Medium	4	Low	1	3	5	Low	1	W_in_P	W_in_P	
Hedges: Native species rich intact hedge	J24	Medium high	5	Low	1	10	15	Low	1	W_in_P	W_in_P	
Hedges: Hedge with trees	J23	Medium-High	5	Low	1	20	32+ years	Low	1	W_in_P	W_in_P	
Hedges: Native species rich hedge with trees	J231	High	6	Low	1	20	32+ years	Low	1	W_in_P	W_in_P	
Hedges: Defunct hedge	J22	Low	2	n/a	-	n/a	n/a	n/a	-	n/a	n/a	
Hedges: Linear scrub	A21	Medium	4	Low	1	10	15	Low	1	W_in_P	W_in_P	
Hedges: Linear trees	A3	Medium	4	Low	1	20	32+years	Low	1	W_in_P	W_in_P	
Hedges: Introduced shrub	J14	Low	2	Low	1	3	5	Low	1	W_in_P	W_in_P	
Ditches: Standing water	G1	High	6	Medium	2	3	5	Low	1	W_in_P	W_in_P	
Ditches: Running water	G2	High	6	Medium	2	3	5	Low	1	W_in_P	W_in_P	
Ditches: Dry ditch	J26	Low	2	Low	1	3	5	Low	1	W_in_P	W_in_P	
Boundaries: Fence	J24	None	0	Low	1	3	n/a	Low	1	W_in_P	W_in_P	
Boundaries: Wall	J25	Low	2	Low	1	3	n/a	Low	1	W_in_P	W_in_P	
Boundaries: Dry stone wall	J25	Medium	4	Low	1	5	n/a	Low	1	W_in_P	W_in_P	
Other: Inland cliff	11	Medium	4	Low	1	W_in_P	W_in_P	Low	1	W_in_P	W_in_P	
Other: Earth bank	J28	Low	2	Low	1	W_in_P	W_in_P	Low	1	W_in_P	W_in_P	

Habitats for restoration
Phase 1 Habitat  Woodland: Broad-leaved semi-natural
Woodland: Broad-leaved plantation
Woodland: Coniferous semi-natural
Woodland: Confierous plantation
Woodland: Mixed semi-natural woodland
Woodland: Mixed semi-natural woodland Woodland: Mixed plantation
Woodland: Wixed plantation Woodland: Wet woodland
Woodland: Dense continuous scrub
Woodland: Scattered scrub
Woodland: Scattered trees
Woodland: Broad-leaved parkland
Woodland: Coniferous parkland
Woodland: Orchard
Grassland: Unimproved acidic grassland
Grassland: Semi-improved acidic grassland
Grassland: Unimproved neutral grassland
Grassland: Semi-improved neutral grassland
Grassland: Unimproved calcareous
Grassland: Semi-improved calcareous
Grassland: Marsh / Marshy grassland
Grassland: Dry heath / Acidic grassland
Grassland: Set-aside / Arable field margins
Wetland: Standing water
Wetland: Running water
Wetland: Reedbed
Wetland: Sphagnum Bog
Wetland:

Distinctivenes	S
High	6
Medium-High	5
Medium	4
Medium-Low	3
Low	2
none	0

Condition	
Good	3
Moderate	2
Poor	1

Time	
3 years	1.1
5 years	1.2
10 years	1.4
15 years	1.7
20 years	2
25 years	2.4
27 years	2.6
30 years	2.8
32+ years	3

1	Difficulty
	Very high
	High
	Medium
	Low
	n/a

Other: Tall ruderal	Wetland:
Other: Non-ruderal	Wetland:
Other: Ephemeral/short perennial	Wetland:
Other: Allotments	Other:
Other: Quarry	Other: Tall
Other: Spoil	Other:
Other: Refuse tip	Other:
Other: Introduced shrub	Other:
Other: Bare ground	Other:
Other: Living Wall	Other:
Other: Living roof - Extensive	Other:
Other: Living roof - Semi-intensive	Other:
Other: Living roof - Intensive	Other:
Other: Bioswale / Rain Garden / SuDS	Other:
	Other:

Linear	Linear
Hedges: Intact hedge	Hedges:
Hedges: Native species rich intact hedge	Hedges:
Hedges: Hedge with trees	Hedges:
Hedges: Native species rich hedge with trees	Hedges:
Hedges: Linear scrub	Hedges:
Hedges: Linear trees	Hedges:
Hedges: Introduced shrub	Ditches:
Ditches: Standing water	Ditches:
Ditches: Running water	Ditches:
Ditches: Dry ditch	Boundarie
Boundaries: Fence	Other:
Boundaries: Wall	Other:
Boundaries: Dry stone wall	Other:
Other: Inland cliff	
Other: Earth bank	
Other: Green wall	

LBAP Priority	NVC	Habitat Definition	Notes	Condition Assessment
Habitat	1440	Habitat Definition	Notes	Condition Assessment
Habitat				
Nata a maia aita				Olif
Not a priority			Otan dand bandan / mandan ulantin n Oan ditian	Classify as poor condition
Not a priority	14/0 14/4 0	la alcada all'atana da colticha da conta decisacado acidida eta forma	Standard border / garden planting. Condition	Classify as poor condition (but see
Woodland	W8,W10,	Include all stands which do not obviously originate from	A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Use FEP T08 condition assessment
Not a priority	Some forms	Obviously planted woodland with no more than 10% of the	Add native woodland grass and wildflower	Use T08 even though this habitat does
n/a	W13, W18	01 : 1 1 4 1 11 11 11 11 11 11 11 11 11 11 1	This woodland type is not found in Sutton	Use T08 even though this habitat does
Not a priority	Some forms	Obviously planted woodland with no more than 10% of the		Classify as poor condition
Woodland		Woods that do not obviously originate from planting (see		Use FEP T08 condition assessment
Not a priority		Obviously planted with 10-90% of either broadleaved or		Use T08 even though this habitat does
Woodland	W1 - W7	Wet woodlands are found on poorly drained or seasonally wet		Use FEP T08 condition assessment
Not a priority	W21-24	A block of scrub is dominated by the shrub species less than	Scrub is often part of mosaic with other	Use condition assessment V05 for scrub
habitat		five metres tall. It may have a few scattered trees but there will		even if the scrub does not meet the FEP
		be no recognisable canopy. To be dense or continuous, the	variable, and is often seen as of low value due	definition of high environmental value
		scrub cover must be thirty percent or more. This includes	to low botanical species diversity. However, it	scrub.
		stands of bramble, dog rose and gorse ( <i>Ulex europaeus</i> ) and	can be of high value in its own right as well as	
		also stands of mature hawthorn (Crataegus monogyna),	providing suitable habitat for some of the borough's important species of invertebrates,	
		blackthorn (Prunus spinosa) or grey willow (Salix cinerea)	mammals and birds. Successional blackthorn	
		even if they are greater than 5m tall. (NCC, 1990).	scrub is of particular value for the brown	
			hairstreak butterfly.	
			Industreak butterny.	
Not a priority	W21-24	As above but scrub cover is less than thirty percent.	Scattered scrub occurs in association with	Use condition assessment V05 for scrub
Not a priority		Habitat that is neither woodland or scrub, but have trees	The area calculation should be the whole land	No FEP condition assessment. See next
Old parkland &	Range of	This category is for Wood Pasture and Parkland Priority	This habitat is typical of large estates with a	Use FEP T03 condition assessment
n/a	- J	Parklands with introduced exotic trees such as cedar (Cedrus	,, ,	
n/a		Felled woodland and scrub areas	Penalise woodland clearance ahead of a	Classify as at least moderate condition,
Orchards	Range of	This category is for Traditional Orchards Priority	Traditional orchards are not known in Sutton.	Use FEP T15 or PTES (Peoples Trust fo
Acid grassland	U1-U4	Lowland acid grassland typically occurs on nutrient poor, free-	Lowland acid grasslands are very rare in	Use FEP G05 condition assessment
Acid Grassland	U1-U4	Improvement reduces the acid character of the grassland and	See above	Use FEP G05 condition assessment
Neutral	MG4, MG5,	Unimproved neutral grasslands are found on neutral clays and	True unimproved grassland is not known from	Use FEP G06 condition assessment
Neutral	MG1, MG6,	Semi-improved neutral grasslands have been subject to some	Species-rich semi-improved grassland is more	Use FEP G06 condition assessment
Calcareous	CG2 - CG4	Calcareous grassland supports a range of plant communities	Calcareous grassland is very rare in Sutton	Use FEP G04 condition assessment
Calcareous	CG2 - CG5	Semi-improved calcareous grasslands that have been	Many sites on the chalk in Sutton are often	Use FEP G04 condition assessment
Not a priority	Some	This consists of semi-improved grassland which is more	,	Classify as poor condition
Not a priority	MG6a, MG7	Improved grasslands are dominated by a limited range of		Classify as poor condition
' '	MG8-10,	This is a diffuse category covering certain <i>Molinia</i> grasslands,	Unlikely within Sutton	Use FEP G07 condition assessment
Lowland		This represents a common mixture of dry heath and acid	Heathland is very rare in Sutton and must be	Use FEP M03 & G05
Arable field		Arable field margins are herbaceous strips or blocks around		Use FEP species features, including
Not a priority	Various	This comprises intensively managed and regularly mown	The creation of a 'flowering lawn'	Classify as poor condition (unless a high
Ponds		Standing water includes lakes, reservoirs, pools, flooded	Can rapidly achieve moderate and good	Use FEP W07 condition assessment
Rivers &		Running water comprises rivers and streams (but not canals,	The habitat quality of watercourses in Sutton	No FEP condition assessment. See next
Reedbeds		Reed beds are wetlands dominated by, but not necessarily	Reed beds are not common or extensive in	Use FEP W08 condition assessment
Fen & swamp		Swamp contains tall emergent vegetation typical of the	The Phase 1 category includes reedbed (see	Use FEP W04 condition assessment
1 Sir a Swainp		Narrow strips of emergent vegetation on the banks of	Apply Swamp to widths of marginal vegetation	Use FEP W04 condition assessment
Fen & swamp	MG11,	Inundation vegetation covers areas that are periodically	Typis Champ to wide is of marginal vegetation	CCC I E. VVOT CONTRICT GSSCSSITIENT
Not a priority	IVIOTI,	This includes arable cropland, horticultural land (for example		Classify as poor condition
Not a priority	W25	Areas dominated by Pteridium aquilinum (NCC, 1990).	Highly unlikely in Sutton, due to the high and	Bracken should be classed as poor
Not a priority	OV24-27	This category comprises stands of tall perennial or biennial	I ngrily drilikely in Sulton, due to the night and	Classify as poor condition, unless it
	UV24-21	Non-wooded stands of species such as Oreopteris		Classify as poor condition, unless it
Not a priority				
Not a priority		Short, patchy plant associations typical of derelict urban sites,		Classify as poor condition
Allotments		All alloments included		Classify as poor condition
Quarries &		Excavations such as gravel, sand or chalk pits and stone		Classify as poor condition
Not a priority		Includes abandoned industrial areas and tips of waste material		Classify as poor condition
Not a priority		Rubbish tips, worked landfill sites		Classify as poor condition

	This is vegetation dominated by shrub species that are not		Classify as poor condition
	Mainly composed of ivy (Hedera) species in which case low	Evergreen climbing species are likely to make	
	As above but with additional wildflower plugs to increase		
	Can be 'green', brown' or blue'. Must have low nutrient	Addition of microtopography, dead wood, water	Bespoke. Will depend on seeding and
	Typical 'sky garden' / 'sky park' with lawns / amenity		Will refer back to the planting plan to
	Typically deeper substrates that extensive biodiverse but	May evolve away from initial creation, due to	
n/a	Creation of features for the temporary storage / movement of		To attain moderate condition, needs to
	Considered as a non-native and / or ornamental (box. laurel		
	Typical native hedgerow species, depending on substrate.		
	As for species rich hedgerow, with native standards, including		
	As for dense continuous or scattered scrub, whichever is most		
	As per general landscaping		
	n/a	Can be 'green', brown' or blue'. Must have low nutrient Typical 'sky garden' / 'sky park' with lawns / amenity Typically deeper substrates that extensive biodiverse but n/a Creation of features for the temporary storage / movement of  Considered as a non-native and / or ornamental (box, laurel Typical native hedgerow species, depending on substrate.  As for species rich hedgerow, with native standards, including As for dense continuous or scattered scrub, whichever is most	Mainly composed of ivy (Hedera) species, in which, case low Lightweight 'green roof' with shallow substrate and sedum As above but with additional wildflower plugs to increase Can be 'green', brown' or blue'. Must have low nutrient Typical 'sky garden' / 'sky park' with lawns / amenity Typically deeper substrates that extensive biodiverse but n/a Creation of features for the temporary storage / movement of  Considered as a non-native and / or ornamental (box, laurel Typical native hedgerow species, depending on substrate.  As for species rich hedgerow, with native standards, including  As for dense continuous or scattered scrub, whichever is most

## Habitat creation/restoration timescales

Default poor condition in 3 years

Planted native woodlands will be about 120 years old before they can be It is likely to take more than 100 years before the planted n/a

n/a

It is likely to take more than 100 years before the planted

Scrub of high conservation value contains a range of shrub species (at least 3, unless it is dense blackthorn) with mixed age structure, has a complex vertical and horizontal structure i.e. variation in physical structure, age range and spacing, has many clearings and glades giving a high boundary/area ratio, a well developed edge with ungrazed tall herbs, and supports a range of rare/local invertebrates. Scrub typically matures in 15 years (RSPB), so it should be possible to create good quality scrub in 15 years with suitable management e.g. rotational cutting that achieves the above conditions.

Scrub of high conservation value contains a range of shrub species (at The ecological value of scattered trees will depend on the tree species Timecales for restoration will depend on reasons for current condition and

Creation and restoration as for broad-leaved plantation

The PTES condition assessment has 3 condition categories: excellent Unimproved grasslands cannot be recreated, at least not on timesacles A review of agri-environment schemes (5 sites) found it is possible to Studies give timescale trajectories of many decades for the recreation of Evidence from agri-environment schemes (Wilson et al - see attached Studies suggest timescale trajectories of 60-100 years for the restoration A review of agri-environment schemes (Wilson et al) found it is possible to n/a

n/a

A review of agri-environment schemes (by Wilson et al - see attached As for acid grassland, plus time for calcifugous shrubs to go through their Can be created in 1 season if well prepared but requires a risk factor of 3 Can be created in 1 season if well prepared but requires a risk factor of 3 Ponds colonise rapidly with plants, invertebrates and ampibians and can Good quality watercourses will have a divesity of natural channel features Newly created reed bed can establish very rapidly i.e. within a few Swamp can develop rapidly and is often of less value to specific species Marginal vegetation can develop rapidly and is often of less value to Inudation vegetation requires specific hydrological regimes for creation 0-5 years. Apply a default 3 years
Default poor condition in 3 years

Ferns should establish in arounf 5-10 years

Default poor condition in 3 years

n/a

n/a n/a

0-5 years to establish, default of moderate condition within 3 years
n/a
Depending on species and creation method, moderate condition should
Establishment should be very rapid, particularly if utilising pre-grown
Establishment should be very rapid, particularly if utilising pre-grown
Seeding and plug planting will speed up the estblishment of this habitat
As for general landscaping. Defaut 3 years for the calculator to moderate
Depends on the desired outcome for the roof. Default moderate condition
Depends on the desired outcome for the feature. Default moderate
Hedge species should be in moderate condition within about 10 years and
Apply as for scrub
Apply as for hedegrow with trees
As per general landscaping

**VALUE** 

	<u>VALUE</u>					
			0.1193			
		Distinctiveness		Value	High	High
n/a	Built Environment: Buildings/hardstanding	none	0.0181	0.0000		
n/a	Built Environment: Buildings/hardstanding	none	0.0060	0.0000		
n/a	Built Environment: Buildings/hardstanding	none	0.0070	0.0000		
J14	Other: Introduced shrub	Low	0.0002	0.0004		
J14	Other: Introduced shrub	Low	0.0006	0.0012		
n/a	Built Environment: Gardens (lawn and planting)	Low	0.0068	0.0136		
n/a	Built Environment: Gardens (lawn and planting)	Low	0.0654	0.0084		
G1	Wetland: Standing water	High	0.0012	0.0000		
A3	Woodland: Scattered trees	Medium	0.0140	0.0000		
	0.0000		0.0000			
	0.0000		0.0000			
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Indirect Impacts			High	High
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0.0000	0.0000	0.0000		
			0.0000	0.0000

				Ц		
Creation	Distinctiveness	Area	Value		High	High
Built Environment: Gardens (lawn and planting)	Low	0.0040	0.0073			
Built Environment: Buildings/hardstanding	none	0.0213	0.0000			
Built Environment: Buildings/hardstanding	none	0.0164	0.0000			
Wetland: Standing water	High	0.0012	0.0087			
Other: Living roof - Extensive sedum	Low	0.0006	0.0022			
Woodland: Scattered trees	Medium	0.0122	0.0887			
0.0000		0.0000				
0.0000		0.0000				
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0.0000		0.0000				

0.0000	0.0000		
		0.0000	0.0000

Enhnacement	Distinctivenes	Area	Value	High	High
Woodland: Scattered trees	Medium	0.0127	0.0762		
0.0000		0.0000			
0.0000		0.0000			
0.0000		0.0000			
0.0000		0.0000			
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0.0000		0.0000			
0.0000		0.0000			
				0.0000	0.000

	Loss	(	Gain		%		
Offset Requirements		0.0236	0.1831	0.1595		0	
Woodland		0.0000	0.1649	0.1649		1.0339	9
Grassland		0.0000	0.0000	0.0000		0.0000	)
Wetland		0.0000	0.0087	0.0087		0.0545	5
Other		0.0016	0.0022	0.0006		0.0038	3
Built Environment		0.0220	0.0073	-0.0147			

Woodland			П			Grassland					
Medium	Low	Low	П	High	High	Medium	Low	Low		High	High
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,			#								
0.0000 Medium	<b>0.0000</b>	<b>0.0000</b>	#		<b>0.0000</b> High	<b>0.0000</b> Medium	<b>0.0000</b>	0.0000 Low			<b>0.0000</b> High
,			#								
,			#								
,			#								
,			#								
Medium	Low	Low		High	High	Medium	Low	Low	-	High	High
,	Low	Low		High	High	Medium	Low	Low	-	High	High
Medium  0.0000	0.0000	Low		High	High 0.0000	Medium  0.0000	0.0000	Low	-	High	High
Medium  0.0000  Woodland	0.0000	0.0000		High 0.0000	High 0.0000	Medium  0.0000  Grassland	0.0000	0.0000	#	High 0.0000	High 0.0000
Medium  0.0000  Woodland	0.0000	Low		High 0.0000	High 0.0000	Medium  0.0000	0.0000	Low	#	High 0.0000	High
Medium  0.0000  Woodland	0.0000	0.0000		High 0.0000	High 0.0000	Medium  0.0000  Grassland	0.0000	0.0000	#	High 0.0000	High 0.0000
Medium  0.0000  Woodland	0.0000	0.0000		High 0.0000	High 0.0000	Medium  0.0000  Grassland	0.0000	0.0000	#	High 0.0000	High 0.0000
Medium  0.0000  Woodland	0.0000	0.0000		High 0.0000	High 0.0000	Medium  0.0000  Grassland	0.0000	0.0000	#	0.0000	High 0.0000
Medium  0.0000  Woodland	0.0000	0.0000		High 0.0000	High 0.0000	Medium  0.0000  Grassland	0.0000	0.0000	#	High 0.0000	High 0.0000
0.0000 Woodland Medium	0.0000 Low	0.0000		High 0.0000	High 0.0000	Medium  0.0000  Grassland	0.0000	0.0000	#	0.0000	High 0.0000
Medium  0.0000  Woodland	0.0000 Low	0.0000		High 0.0000	High 0.0000	Medium  0.0000  Grassland	0.0000	0.0000	#	0.0000	High 0.0000
0.0000 Woodland Medium	0.0000 Low	0.0000		High 0.0000	High 0.0000	Medium  0.0000  Grassland	0.0000	0.0000	#	0.0000	High 0.0000
0.0000 Woodland Medium	0.0000 Low	0.0000		High 0.0000	High 0.0000	Medium  0.0000  Grassland	0.0000	0.0000	#	0.0000	High 0.0000
0.0000 Woodland Medium	0.0000 Low	0.0000		High 0.0000	High 0.0000	Medium  0.0000  Grassland	0.0000	0.0000	#	0.0000	High 0.0000
0.0000 Woodland Medium	0.0000 Low	0.0000		High 0.0000	High 0.0000	Medium  0.0000  Grassland	0.0000	0.0000	#	0.0000	High 0.0000
0.0000 Woodland Medium	0.0000 Low	0.0000		High 0.0000	High 0.0000	Medium  0.0000  Grassland	0.0000	0.0000	#	0.0000	High 0.0000
0.0000 Woodland Medium	0.0000 Low	0.0000		High 0.0000	High 0.0000	Medium  0.0000  Grassland	0.0000	0.0000	#	0.0000	High 0.0000
0.0000 Woodland Medium	0.0000 Low	0.0000		High 0.0000	High 0.0000	Medium  0.0000  Grassland	0.0000	0.0000	#	0.0000	High 0.0000
0.0000 Woodland Medium	0.0000 Low	0.0000		High 0.0000	High 0.0000	Medium  0.0000  Grassland	0.0000	0.0000	#	0.0000	High 0.0000

0.0887	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0087	0.0000
Woodland					Grassland				
Medium	Low	Low	High	High	Medium	Low	Low	High	High
0.0762									
0.0762	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

0.0244

0.0000

0.0013

0.0001

Wetland				Other (incl	uding Buil	t Gardens	3)		Bui	It Environn
Medium	Low	Low	High	-High	Medium		Low	High	-High	Medium
							0.0004			
							0.0004 0.0012			
							0.0012			
									+	
0.000	0.000	0.0000	0 0000	0.000	0.000	0.000	0.0040	2 222	0 0000	0.000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0016	0.000	0.0000	0.0000
Medium	Low	Low	High	-High	Medium	-Low	Low	High	-High	Medium
								g		
0.0000	0.0000	0.0000	<u> </u>	0.0000	0.0000	0.0000	0.0000	0.000	0.0000	0.0000
Wetland		Ī	T		Other				Rui	It Environn
Medium	Low	Low	High	-High	Medium	-Low	Low	High	-High	Medium
			g					g		
							0.0022			
									1	ļ
									1	
									+	
									+	1
								<u> </u>	+	
									+	
									1	

0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0022		0.0000	0.0000	0.0000	
Wetland		Other							Built Environm			
Medium	Low	Low	High	-High	Medium	-Low	Low	<u> </u>	High	-High	Medium	
								L				
								L				
								L				
								L				
								L				
								L				
								L				
								L				
								L				
								L				
								L				
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	L	0.0000	0.0000	0.0000	

nent -Low		
-Low	Low	
	0.0426	
	0.0136 0.0084	
	0.0004	
0.0000	0.0220	0.0236

0.0000	0.0000
-Low	Low

nent	
-Low	Low
	0.0073

0.0000	0.0073

ment -Low	Low
-LOW	Low
0.0000	0.0000

			0.12	0.02							
		Distinctivenes	Area	Value	Q >	9/	Q >	97	9>	Q >	91
n/a	Built Environment: Buildings/hardstanding	none	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n/a	Built Environment: Buildings/hardstanding	none	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n/a	Built Environment: Buildings/hardstanding	none	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
J14	Other: Introduced shrub	Low	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
J14	Other: Introduced shrub	Low	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n/a	Built Environment: Gardens (lawn and plai		0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n/a	Built Environment: Gardens (lawn and plai		0.07	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G1	Wetland: Standing water	High	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00
A3	Woodland: Scattered trees	Medium	0.01	0.00	0.01	0.00	0.01	0.00	0.01	0.00	0.03
	0		0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0		0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0		0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0		0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0		0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0		0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0		0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0		0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0		0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0		0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0		0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0		0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0		0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0		0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0		0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0		0.00		0.00		0.00	0.00	0.00	0.00	0.00
	0		0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0		0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0		0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0		0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0		0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00
					0.01	0.00	0.01	0.01	0.01	0.00	0.03

Indirect Impacts			
0		0.00	
0	0	0.00	
0	0	0.00	
0	0	0.00	

P_IntensiP_	_Traditi <sub></sub> P	_LivestcP_	_Wild fc P	_Fresh P	_Energ <sub>!</sub> P	_Timbe
0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00

0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			0.00	0.00	0.00	0.00	0.00	0.00	0.00

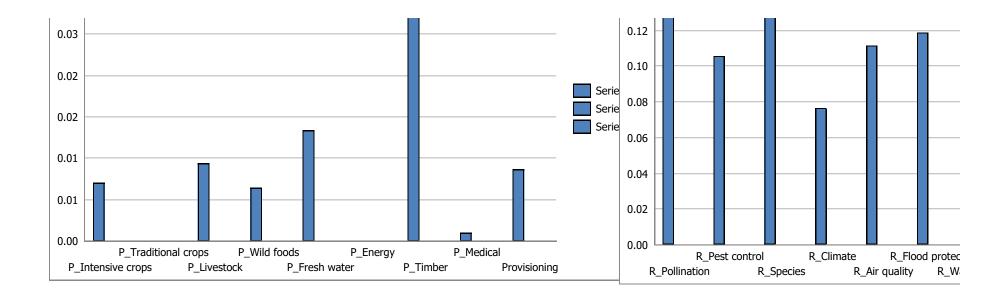
Creation	Distinctivenes	Area	Value	P_Intensif	P_Traditi <sub>'</sub> F	P_LivestcF	P_Wild fc F	_Fresh	P_Energ <sub>!</sub> I	P_Timbe
Built Environment: Gardens (lawn and pla	Low	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Built Environment: Buildings/hardstanding	none	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Built Environment: Buildings/hardstanding	none	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wetland: Standing water	High	0.00	0.01	0.00	0.00	0.00	0.00	0.01	0.00	0.00
Other: Living roof - Extensive sedum	Low	0.00	0.00	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Woodland: Scattered trees	Medium	0.01	0.09	0.01	0.00	0.01	0.00	0.01	0.00	0.03
-		0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00
-		0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00
-		0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00
-		0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00
-		0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00
-		0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00
-		0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00
-		0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00
-		0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00
				#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A

Enhnacement	Distinctivenes	Value		P_IntensiP	_Traditi <sub></sub> P	_LivestcP	_Wild fc P	_Fresh	P_Energy P	_Timbe
Woodland: Scattered trees	Medium	0.01	0.08	0.01	0.00	0.01	0.00	0.01	0.00	0.03
0		0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00
0		0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00
0		0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00
0		0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00
0		0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00
0		0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00
0		0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00
0		0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00
0		0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00
0		0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00
0		0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00
0		0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00
0		0.00	·	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0		0.00	·	0.00	0.00	0.00	0.00	0.00	0.00	0.00
				0.01	0.00	0.01	0.00	0.01	0.00	0.03

n/a n/a n/a G1 n/a A3

Ecosystem Service	Exiting		After	gain/loss l	P_IntensiI	P_Traditi⊦l	P_Livestd	P_Wild fc l	P_Fresh	P_Energyl	P_Timbe⊢
Provisioning		0.01	#N/A	#N/A	0.01	0.00	0.01	0.01	0.01	0.00	0.03
Regulating		0.11	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Cultural		0.19	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A

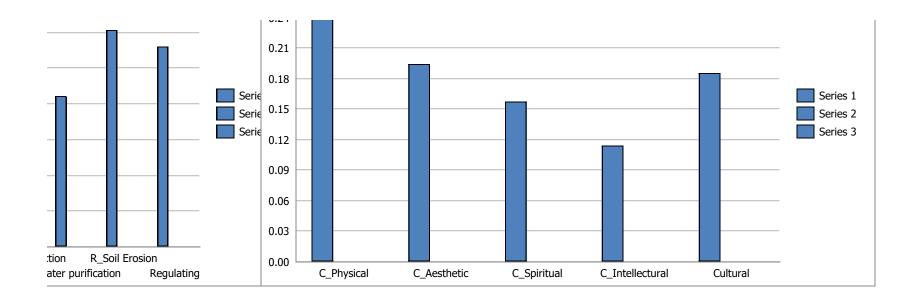




<b>Q</b> >	850	<i>&amp;</i> ?	<i>چ</i> >	<i>~</i> 7	<b>&amp;</b> 7	<i>ج</i> >	<i>ج</i> >	81	<i>ج</i> ٠	60°	ري ر	
0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	)	0.00	0.01	0.01	0.01	0.00	0.01	0.01	0.00	0.01	0.01	0.02
0.00	)	0.00	0.10	0.07	0.10	0.03	0.07	0.07	0.03	0.07	0.07	0.20
0.00	)	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	)	0.01	0.01	0.03	0.03	0.04	0.04	0.04	0.04	0.05	0.03	0.05
0.00	)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	)	0.01	0.13	0.11	0.15	80.0	0.11	0.12	0.08	0.12	0.11	0.28
D Modic	. Provid	sionir D. Do	llinatic D. D.	est con R_Sp	ocios P Cli	mata D Air	· qualit D. Ela	and pro D \Me	ator nu D. So	il Eros <b>Pog</b> u	ulatina C. Dh	veical
0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	,	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P Medic: <b>F</b>	Provisionir R	Pollinatic R	Pest con R	Species	R Climate	R_Air qualit R	Flood prcR	Water pu R	Soil Fros F	Regulating C	: Physical
0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
0.00	0.01	0.01	0.02	0.03	0.03	0.03	0.04	0.04	0.04	0.03	0.05
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
								0.00	0.00	0.00	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00 #N/A	0.00 #N/A	0.00 #N/A	0.00 #N/A	0.00 #N/A	0.00 #N/A	0.00 #N/A	0.00 #N/A	0.00 #N/A	#N/A	#N/A	0.00 #N/A
#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
#N/A P_Medic: F	#N/A Provisionir R	#N/A _Pollinatic R	#N/A _Pest con R	#N/A _Species	#N/A R_Climate	#N/A R_Air qualit R	#N/A _Flood prcR	#N/A _Water pu R	#N/A _Soil Eros <b>F</b>	#N/A Regulating C	#N/A C_Physical
#N/A P_Medic: F 0.00	#N/A Provisionir R 0.01	#N/A _Pollinatic R 0.01	#N/A Pest con R 0.03	#N/A _Species 0.03	#N/A R_Climate 0.03	#N/A R_Air qualit R 0.03	#N/A _Flood prc R 0.04	#N/A _Water pu R 0.04	#N/A _Soil Eros <b>F</b> 0.04	#N/A Regulating C 0.03	#N/A C_Physical 0.05
#N/A P_Medic; F 0.00 0.00	#N/A Provisionir R 0.01 0.00	#N/A Pollinatic R 0.01 0.00	#N/A _Pest con R0.030.00	#N/A _Species 0.03 0.00	#N/A  R_Climate  0.03  0.00	#N/A R_Air qualit R 0.03 0.00	#N/A _Flood prc R 0.04 0.00	#N/A _Water pu R 0.04 0.00	#N/A _Soil Eros F 0.04 0.00	#N/A Regulating C 0.03 0.00	#N/A C_Physical 0.05 0.00
#N/A P_Medica F 0.00 0.00 0.00	#N/A Provisionir R 0.01 0.00 0.00	#N/A _Pollinatic R0.010.000.00	#N/A _Pest con R0.030.000.00	#N/A _Species 0.03 0.00 0.00	#N/A  R_Climate     0.03     0.00     0.00	#N/A R_Air qualit R 0.03 0.00 0.00	#N/A _Flood prc R 0.04 0.00 0.00	#N/A _Water pu R 0.04 0.00 0.00	#N/A _Soil Eros <b>F</b> 0.04 0.00 0.00	#N/A Regulating 0 0.03 0.00 0.00	#N/A C_Physical 0.05 0.00 0.00
#N/A P_Medic: F 0.00 0.00 0.00 0.00 0.00	#N/A Provisionir R 0.01 0.00 0.00 0.00	#N/A _Pollinatic R0.010.000.000.00	#N/A _Pest con R	#N/A _Species	#N/A  R_Climate     0.03     0.00     0.00     0.00	#N/A  R_Air qualit R 0.03 0.00 0.00 0.00	#N/A _Flood prc R 0.04 0.00 0.00 0.00	#N/A _Water pu R 	#N/A _Soil Eros <b>F</b> 0.04 0.00 0.00 0.00 0.00	#N/A Regulating 0 0.03 0.00 0.00 0.00	#N/A C_Physical 0.05 0.00 0.00 0.00
#N/A P_Medic; F 0.00 0.00 0.00 0.00 0.00	#N/A Provisionir R 0.01 0.00 0.00 0.00 0.00	#N/A _Pollinatic R0.010.000.000.000.000.00	#N/A _Pest con R	#N/A _Species 0.03 0.00 0.00 0.00 0.00	#N/A  R_Climate     0.03     0.00     0.00     0.00     0.00	#N/A  R_Air qualit R 0.03 0.00 0.00 0.00 0.00	#N/A _Flood prc R 0.04 0.00 0.00 0.00 0.00	#N/A _Water pu R 0.04 0.00 0.00 0.00 0.00	#N/A _Soil Eros F 0.04 0.00 0.00 0.00 0.00	#N/A Regulating 0 0.03 0.00 0.00 0.00 0.00	#N/A C_Physical 0.05 0.00 0.00 0.00 0.00
#N/A P_Medic; F 0.00 0.00 0.00 0.00 0.00 0.00	#N/A Provisionir R 0.01 0.00 0.00 0.00 0.00 0.00	#N/A _Pollinatic R0.010.000.000.000.000.00	#N/A _Pest con R	#N/A _Species	#N/A  R_Climate     0.03     0.00     0.00     0.00     0.00     0.00     0.00	#N/A  R_Air qualit R 0.03 0.00 0.00 0.00 0.00 0.00	#N/A _Flood prc R 0.04 0.00 0.00 0.00 0.00 0.00	#N/A _Water pu R0.040.000.000.000.000.00	#N/A _Soil Eros F	#N/A Regulating C 0.03 0.00 0.00 0.00 0.00 0.00	#N/A C_Physical 0.05 0.00 0.00 0.00 0.00
#N/A P_Medica F 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	#N/A Provisionir R 0.01 0.00 0.00 0.00 0.00 0.00 0.00	#N/A  Pollinatic R  0.01  0.00  0.00  0.00  0.00  0.00  0.00  0.00	#N/A  _Pest con R	#N/A _Species	#N/A  R_Climate     0.03     0.00     0.00     0.00     0.00     0.00     0.00     0.00	#N/A  R_Air qualit R 0.03 0.00 0.00 0.00 0.00 0.00 0.00 0.0	#N/A _Flood prc R 0.04 0.00 0.00 0.00 0.00 0.00 0.00	#N/A _Water pu R	#N/A _Soil Eros <b>F</b>	#N/A Regulating 0 0.03 0.00 0.00 0.00 0.00 0.00 0.00	#N/A C_Physical 0.05 0.00 0.00 0.00 0.00 0.00
#N/A P_Medic; F 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	#N/A Provisionir R 0.01 0.00 0.00 0.00 0.00 0.00 0.00 0.0	#N/A  Pollinatic R  0.01  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00	#N/A  Pest con R 0.03 0.00 0.00 0.00 0.00 0.00 0.00 0.0	#N/A _Species	#N/A  R_Climate	#N/A  R_Air qualit R 0.03 0.00 0.00 0.00 0.00 0.00 0.00 0.0	#N/A _Flood prc R 0.04 0.00 0.00 0.00 0.00 0.00 0.00 0.0	#N/A _Water pu R	#N/A _Soil Eros F	#N/A Regulating 0 0.03 0.00 0.00 0.00 0.00 0.00 0.00 0.	#N/A C_Physical 0.05 0.00 0.00 0.00 0.00 0.00 0.00 0.0
#N/A P_Medic; F 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	#N/A Provisionir R 0.01 0.00 0.00 0.00 0.00 0.00 0.00 0.0	#N/A _Pollinatic R0.010.000.000.000.000.000.000.000.000.000.00	#N/A  Pest con R  0.03  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00	#N/A _Species	#N/A  R_Climate     0.03     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00	#N/A  R_Air qualit R 0.03 0.00 0.00 0.00 0.00 0.00 0.00 0.0	#N/A _Flood prc R 0.04 0.00 0.00 0.00 0.00 0.00 0.00 0.0	#N/A _Water pu R	#N/A _Soil Eros F	#N/A Regulating 0 0.03 0.00 0.00 0.00 0.00 0.00 0.00 0.	#N/A C_Physical 0.05 0.00 0.00 0.00 0.00 0.00 0.00 0.0
#N/A P_Medic; F 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	#N/A Provisionir R 0.01 0.00 0.00 0.00 0.00 0.00 0.00 0.0	#N/A _Pollinatic R	#N/A  _Pest con R	#N/A _Species	#N/A  R_Climate	#N/A  R_Air qualit R 0.03 0.00 0.00 0.00 0.00 0.00 0.00 0.0	#N/A _Flood prc R 0.04 0.00 0.00 0.00 0.00 0.00 0.00 0.0	#N/A _Water pu R	#N/A _Soil Eros F	#N/A Regulating 0 0.03 0.00 0.00 0.00 0.00 0.00 0.00 0.	#N/A C_Physical 0.05 0.00 0.00 0.00 0.00 0.00 0.00 0.0
#N/A P_Medic; F 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	#N/A Provisionir R 0.01 0.00 0.00 0.00 0.00 0.00 0.00 0.0	#N/A _Pollinatic R0.010.000.000.000.000.000.000.000.000.000.000.000.000.000.000.00	#N/A  _Pest con R	#N/A _Species	#N/A  R_Climate	#N/A  R_Air qualit R 0.03 0.00 0.00 0.00 0.00 0.00 0.00 0.0	#N/A _Flood prc R 0.04 0.00 0.00 0.00 0.00 0.00 0.00 0.0	#N/A _Water pu R	#N/A _Soil Eros F	#N/A Regulating C 0.03 0.00 0.00 0.00 0.00 0.00 0.00 0.0	#N/A C_Physical 0.05 0.00 0.00 0.00 0.00 0.00 0.00 0.0
#N/A P_Medic; F 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	#N/A Provisionir R 0.01 0.00 0.00 0.00 0.00 0.00 0.00 0.0	#N/A  Pollinatic R  0.01 0.00 0.00 0.00 0.00 0.00 0.00 0.	#N/A  _Pest con R	#N/A _Species	#N/A  R_Climate	#N/A  R_Air qualit R 0.03 0.00 0.00 0.00 0.00 0.00 0.00 0.0	#N/A _Flood prc R 0.04 0.00 0.00 0.00 0.00 0.00 0.00 0.0	#N/A _Water pu R _0.04 _0.00 _0.00 _0.00 _0.00 _0.00 _0.00 _0.00 _0.00 _0.00 _0.00 _0.00 _0.00 _0.00 _0.00 _0.00	#N/A _Soil Eros F	#N/A Regulating 0 0.03 0.00 0.00 0.00 0.00 0.00 0.00 0.	#N/A C_Physical 0.05 0.00 0.00 0.00 0.00 0.00 0.00 0.0
#N/A P_Medic; F 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	#N/A Provisionir R 0.01 0.00 0.00 0.00 0.00 0.00 0.00 0.0	#N/A  Pollinatic R  0.01  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00	#N/A  Pest con R 0.03 0.00 0.00 0.00 0.00 0.00 0.00 0.0	#N/A _Species	#N/A  R_Climate	#N/A  R_Air qualit R 0.03 0.00 0.00 0.00 0.00 0.00 0.00 0.0	#N/A _Flood prc R 0.04 0.00 0.00 0.00 0.00 0.00 0.00 0.0	#N/A _Water pu R	#N/A _Soil Eros F	#N/A Regulating 0 0.03 0.00 0.00 0.00 0.00 0.00 0.00 0.	#N/A C_Physical 0.05 0.00 0.00 0.00 0.00 0.00 0.00 0.0
#N/A P_Medic; F 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	#N/A Provisionir R 0.01 0.00 0.00 0.00 0.00 0.00 0.00 0.0	#N/A  Pollinatic R  0.01 0.00 0.00 0.00 0.00 0.00 0.00 0.	#N/A  Pest con R  0.03  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00	#N/A _Species	#N/A  R_Climate	#N/A  R_Air qualit R 0.03 0.00 0.00 0.00 0.00 0.00 0.00 0.0	#N/A _Flood prc R 0.04 0.00 0.00 0.00 0.00 0.00 0.00 0.0	#N/A _Water pu R _0.04 _0.00 _0.00 _0.00 _0.00 _0.00 _0.00 _0.00 _0.00 _0.00 _0.00 _0.00 _0.00 _0.00 _0.00 _0.00 _0.00 _0.00 _0.00 _0.00	#N/A _Soil Eros F	#N/A Regulating C 0.03 0.00 0.00 0.00 0.00 0.00 0.00 0.0	#N/A C_Physical 0.05 0.00 0.00 0.00 0.00 0.00 0.00 0.0
#N/A P_Medic; F 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	#N/A Provisionir R 0.01 0.00 0.00 0.00 0.00 0.00 0.00 0.0	#N/A  Pollinatic R  0.01  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00	#N/A  Pest con R 0.03 0.00 0.00 0.00 0.00 0.00 0.00 0.0	#N/A _Species	#N/A  R_Climate	#N/A  R_Air qualit R 0.03 0.00 0.00 0.00 0.00 0.00 0.00 0.0	#N/A _Flood prc R 0.04 0.00 0.00 0.00 0.00 0.00 0.00 0.0	#N/A _Water pu R	#N/A _Soil Eros F	#N/A Regulating 0 0.03 0.00 0.00 0.00 0.00 0.00 0.00 0.	#N/A C_Physical 0.05 0.00 0.00 0.00 0.00 0.00 0.00 0.0

P\_Medic: **Provisionir** R\_Pollinatic R\_Pest con R\_Species R\_Climate R\_Air qualit R\_Flood prc R\_Water pu R\_Soil Eros **Regulating** C\_Physical 0.00 0.01 0.13 0.11 0.15 0.08 0.11 0.12 0.08 0.12 0.11 0.28 #N/A 

	_				HABCODE	DESCRIPTION
ς <i>&gt;</i>	07	رې	C <sub>D</sub> .		A111	Woodland: Broad-leaved semi-natural woodlan
	0.00	0.00	0.00	0.00	A112	Woodland: Broad-leaved plantation
	0.00	0.00	0.00	0.00	A121	Woodland: Coniferous semi-natural woodland
	0.00	0.00	0.00	0.00	A122	Woodland: Coniferous plantation
	0.00	0.00	0.00	0.00	A131	Woodland: Mixed semi-natural woodland
	0.00	0.00	0.00	0.00	A132	Woodland: Mixed plantation
	0.01	0.01	0.01	0.01	A21	Woodland: Dense continuous scrub
	0.13	0.10	0.07	0.12	A22	Woodland: Scattered scrub
	0.01	0.01	0.00	0.01	A31	Woodland: Broad-leaved parkland
	0.04	0.04	0.04	0.04	A3	Woodland: Scattered trees
	0.00	0.00	0.00	0.00	A32	Woodland: Coniferous parkland
	0.00	0.00	0.00	0.00	A4	Woodland: Recently felled woodland
	0.00	0.00	0.00	0.00	A5	Woodland: Orchard
	0.00	0.00	0.00	0.00	A6	Woodland: Wet woodland
	0.00	0.00	0.00	0.00	B11	Grassland: Unimproved acidic grassland
	0.00	0.00	0.00	0.00	B12	Grassland: Semi-improved acidic grassland
	0.00	0.00	0.00	0.00	B21	Grassland: Unimproved neutral grassland
	0.00	0.00	0.00	0.00	B22	Grassland: Semi-improved neutral grassland
	0.00	0.00	0.00	0.00	B31	Grassland: Unimproved calcareous grassland
	0.00	0.00	0.00	0.00	B32	Grassland: Semi-improved calcareous grasslar
	0.00	0.00	0.00	0.00	B4	Grassland: Improved grassland
	0.00	0.00	0.00	0.00	B5	Grassland: Marsh / Marshy grassland
	0.00	0.00	0.00	0.00	B6	Grassland: Poor semi-improved grassland
	0.00	0.00	0.00	0.00	C11	Other: Continuous bracken
	0.00	0.00	0.00	0.00	C31	Other: Tall ruderal
	0.00	0.00	0.00	0.00	C32	Other: Non-ruderal
	0.00	0.00	0.00	0.00	D5	Grassland: Dry heath / Acidic grassland mosaic
	0.00	0.00	0.00	0.00	E11	Wetland: Sphagnum Bog
	0.00	0.00	0.00	0.00	E21	Wetland: Acid/neutral flush
	0.00	0.00	0.00	0.00	E32	Wetland: Basin Mire
	0.00	0.00	0.00	0.00	F1	Wetland: Swamp
	0.19	0.16	0.11	0.19	F22	Wetland: Inundation vegetation
					G1	Wetland: Standing water
C_Aes		_	ellectu <b>Cultu</b>		G2	Wetland: Running water
	0.00	0.00	0.00	0.00	121	Other: Quarry
	0.00	0.00	0.00	0.00	122	Other: Spoil
	0.00	0.00	0.00	0.00	124	Other: Refuse tip
	0.00	0.00	0.00	0.00	J11	Other: Arable

0.00	0.00	0.00	0.00	
0.00	0.00	0.00	0.00	

C_Aesthetic C	_Spiritual C	C_Intellectu <b>C</b>	ultural
0.01	0.01	0.00	0.01
0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00
0.01	0.01	0.00	0.01
#N/A	#N/A	#N/A	#N/A
0.04	0.04	0.03	0.04
0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00
#N/A	#N/A	#N/A	#N/A

C_Aesthetic C_Spiritual C_Intellectu Cultural							
0.04	0.04	0.03	0.04				
0.00	0.00	0.00	0.00				
0.00	0.00	0.00	0.00				
0.00	0.00	0.00	0.00				
0.00	0.00	0.00	0.00				
0.00	0.00	0.00	0.00				
0.00	0.00	0.00	0.00				
0.00	0.00	0.00	0.00				
0.00	0.00	0.00	0.00				
0.00	0.00	0.00	0.00				
0.00	0.00	0.00	0.00				
0.00	0.00	0.00	0.00				
0.00	0.00	0.00	0.00				
0.00	0.00	0.00	0.00				
0.00	0.00	0.00	0.00				
0.04	0.04	0.03	0.04				

J112	Other: Allotments
J113	Grassland: Set-aside / Arable field margins
J12	Grassland: Amenity grassland
J13	Other: Ephemeral/short perennial
J14	Other: Introduced shrub
J4	Other: Bare ground
URB	Built Environment: Buildings/hardstanding
B51	Wetland: Reedbed
n/a	Built Environment: Gardens (lawn and planting)
n/a	Other: Vertical face (correction factor)
n/a	Other: Living Wall
n/a	Other: Living roof - Extensive
n/a	Other: Living roof - Semi-intensive
n/a	Other: Living roof - Intensive
n/a	Other: Living roof - Brown
	Other: Living roof - Mosaic

C\_Aesthetic C\_Spiritual C\_Intellectu **Cultural**0.19 0.16 0.11 0.1 0.19 #N/A #N/A #N/A #N/A #N/A #N/A #N/A #N/A

INFERENCE			, , , , ,		->
Median Stakeholder value	5	5	5	4.5	5
Median Stakeholder value	4.5	4	3	3	3.5
Set to mean of Semi-natural BL (A111) & coniferous plantation (A122)	3	2.5	1.5	3	2
Median Stakeholder value	2	2	2	3	4.5
Set to average (A111 + A121)	4.5	4.4	4.1	4.1	4.3
Set to average (A112 + A122)	3.8	3.3	2.3	3	2.8
Median Stakeholder value	2	2	2	3	4.5
Set to A22	2	2	2	3	4.5
Set to J12 for cultural; average (J12 + A112) for others (J12 = amenity; A112 = broadleaf plantation)	3.8	3	3	2.5	1
same as A31	3.8	3	3	2.5	1
Set to J12 for cultural; average (J12 + A122) for others (J12 = amenity; A122 = Conifer plantation)	2.8	1.8	1.3	1.8	1
Set to J4 (bare ground) with reduced habitat (3>1) and soil-related variables set to those of A132 (mixed	1	1	0	0.5	1
Set to A112 with modified food provision (A112 = BL plantation)	4.5	4	3	3	3.5
CT Added	5	4	2	2	2.5
Median Stakeholder value	3.5	4.5	3	4	5
Set to B11	3.5	4.5	3	4	5
Median Stakeholder value	4	4	3	4	5
Set to B21	4	4	3	4	5
Median Stakeholder value	3.5	4.5	3	4	5
Set to B31	3.5	4.5	3	4	5
Median Stakeholder value	1	1	1	1	1
Median Stakeholder value	3	4	3	4	5
Set to mean of B4 and B22 (IG and Neutral grassland)	2.5	2.5	2	2.5	3
Set to C31	1.5	2	1.5	2.5	5
Median Stakeholder value	1.5	2	1.5	2.5	5
Set to C31	1.5	2	1.5	2.5	5
Median Stakeholder value	3	4.5	4	4	5
Set to B5 with some expert modification (Pam) to reflect differences	2	4	3	4	4
Set to B5 with some expert modification (Pam) to reflect differences	2	4	3	4	4
Set to B5 with some expert modification (Pam) to reflect differences	2	4	3	4	4
Set to B5 with some expert modification (Pam) to reflect differences	2	4	3	4	4
Set to B5 with some expert modification (Pam) to reflect differences	2	4	3	4	4
Median Stakeholder value	4	5	5	4	2.5
Set to G1 (sthanding water)	4	5	5	4	2.5
Set to J4 (bare ground)	1	1	0	0.5	1
Set to J4 (bare ground)	1	1	0	0.5	1
Set to J4 (bare ground)	1	1	0	0.5	1
Median Stakeholder value	1	1	0.5	1	1

Set to J12 (amenity) with increased food provision, reduced arable and more intellectual /spiritual interacti	2	1	2	2	1
CT Added	1	1	1	1	5
Median Stakeholder value	2.5	1	1	0.5	1
set to C31 (tall ruderal)	1.5	2	1.5	2.5	5
set to C31 (tall ruderal)	1.5	2	1.5	2.5	5
Median Stakeholder value	0	0	0	0	0
Median Stakeholder value	0	0	0	0	0
Set to B5 - WCC set	3	4	3	4	5
- WCC set	3	2	1.5	1	1.5
- WCC set					
same as garden - WCC set	3	2	1.5	1	1.5
same as garden - WCC set	3	2	1.5	1	1.5
same as garden - WCC set	3	2	1.5	1	1.5
same as garden - WCC set	3	2	1.5	1	1.5
same as garden WCC set	3	2	1.5	1	1.5
same as garden - WCC set	3	2	1.5	1	1.5

<i>\psi\</i>	<i>\$7</i>	٠	· ~ /	٠,	· 47	<i>\$7</i>	۷ >	Q /	Q >	97	۷ >	٧,	Q /	Q	>
	4	5	5	5	4.5	4	5	0	0	0.5	0	1	0	4	0
	3	3.5	4	4	4	4	4	0	1	0	0.5	1	0	4.5	0
	2	2	2.5	3	3	2.5	3.5	0	0	0.5	0.5	0.5	4	5	0
	3.5	4	4	3	3	3	3	0	0	2.5	0	0	3	2	0.5
	3.5	4.3	4.4	4.5	4.1	3.6	4.6	0	0	0.5	0.1	0.9	1	4.3	0
	2.5	2.8	3.3	3.5	3.5	3.3	3.8	0	0.5	0.3	0.5	0.8	2	4.8	0
	3.5	4	4	3	3	3	3	0	0	2.5	0	0	3	2	0.5
	3.5	4	4	3	3	3	3	0	0	2.5	0	0	3	2	0.5
	2	2.3	2.5	2.5	3	3	3.3	0	0.5	0.5	0.3	0.5	0	2.3	0
	2	2.3	2.5	2.5	3	3	3.3	0	0.5	0.5	0.3	0.5	0	2.3	0
	1.5	1.5	1.8	2	2.5	2.3	3	0	0	8.0	0.3	0.3	2	2.5	0
	1	1	0	0	1	3.3	0	0	0	0	0	8.0	0	0	0
	3	3.5	4	4	4	4	4	0	3	0	0.5	1	0	4.5	0
	2.5	5	5	4	5	5	5	0	2	1	1	2	3	2	1
	4	5	3	3	3	3	4	0	0	3	0.5	0	0	0	0.5
	4	5	3	3	3	3	4	0	0	3	0.5	0	0	0	0.5
	4	5	3	3	3	3	4	0	0	3	0.5	0	0	0	0
	4	5	3	3	3	3	4	0	0	3	0.5	0	0	0	0
	4	5	3	3	3	2.5	4	0	0	3	0.5	0	0	0	0
	4 1	5	3	3	3	2.5	4	0	0	3	0.5	0	0	0	0
	•	1	1	1	2 4	1.5	2.5	1.5	0	5 3.5	0	0 1	0	0	0
	3.5 2.5	5 3	3 2	3 2	4 2.5	4	4 3.3	0 0.8	0		0.5 0.3	0	0 0	0	0.5
	2.5 4	3 4	3	2.5	2.5 2	2.3 2.5		0.8	0 0	4 1.5	0.3 0.5	0.5	0	0	0 0.5
	4	4	3	2.5 2.5	2	2.5 2.5	3 3	0	0	1.5	0.5	0.5 0.5	0	0 0	0.5
	4	4	3	2.5	2	2.5	3	0	0	1.5	0.5	0.5	0	0	0.5
	3.5	5	3.5	3	3	3	3.5	0	0	2.5	0.5	0.5	0	0	0.5
	3.5	5	3.5	3	4	4	4	0	0	1.5	0.5	1.5	0	0	0.5
	3.5	5	3.5	3	4	4	4	0	0	1.5	0.5	1.3	0	0	0.5
	3.5	5	3.5	3	4	4	4	0	0	1.5	0.5	1.5	0	0	0.5
	3.5	5	3.5	3	4	4	4	0	0	1.5	0.5	1.5	0	0	0.5
	3.5	5	3.5	3	4	4	4	0	0	1.5	0.5	1	0	Ö	0.5
	2	5	2.5	2	2.5	3.5	0.5	0	0	1	1.5	5	0	Ö	0.5
	2	5	2.5	2	2.5	3.5	0.5	0	0	1	1.5	5	0	0	0.5
	1	3	0	0	1	1	0	0	0	0	0	0	0	0	0
	1	3	0	0	1	1	0	0	0	0	0	0	0	0	0
	1	3	0	0	1	1	0	0	0	0	0	0	0	0	0
	1	0.5	1.5	1	1	1	1	5	4	1	0	0	0	0	1

1	1	1	1	2	2	2.5	0	4	0	0	0	0	0	0
5	4	4	2.5	3	4	4	0	1	1	1	0	1	0	0
1	1	1	1	2	2	2.5	0	0	1	0	0	0	0	0
4	4	3	2.5	2	2.5	3	0	0	1.5	0.5	0.5	0	0	0.5
4	4	3	2.5	2	2.5	3	0	0	1.5	0.5	0.5	0	0	0.5
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.5	5	3	3	4	4	4	0	0	3.5	0.5	1	0	0	0.5
1	1.5	0.5	1	1	0.5	1	0	0	0	0	0	0	0	0
1	1.5	0.5	1	1	0.5	1	0	0	0	0	0	0	0	0
1	1.5	0.5	1	1	0.5	1	0	0	0	0	0	0	0	0
1	1.5	0.5	1	1	0.5	1	0	0	0	0	0	0	0	0
1	1.5	0.5	1	1	0.5	1	0	0	0	0	0	0	0	0
1	1.5	0.5	1	1	0.5	1	0	0	0	0	0	0	0	0
1	1.5	0.5	1	1	0.5	1	0	0	0	0	0	0	0	0

8KC	موس	C <sub>D</sub> ,	۷>
1.1	4.7	4.9	0.2
1.3	3.8	3.6	0.2
1.2	2.6	2.5	0.2
0.9	3.5	2.3	0.8
1.1	4.2	4.3	0.2
1.3	3.2	3.1	0.3
0.9	3.5	2.3	0.8
0.9	3.5	2.3	0.8
0.8	2.4	3.1	0.3
0.8	2.4	3.1	0.3
0.7	1.9	1.9	0.3
0.2	0.9	0.6	0
1.7	3.8	3.6	1
1.4	4.3	3.3	0
0.6	3.8	3.8	1
0.6	3.8	3.8	1
0.6	3.8	3.8	1
0.6	3.8	3.8	1
0.6	3.7	3.8	1
0.6	3.7	3.8	1
1.3	1.4	1	2.2
0.9	3.9	3.5	1.2
1	2.6	2.4	1.6
0.4	3.3	1.9	0.5
0.4	3.3	1.9	0.5
0.4 0.5	3.3 3.7	1.9 3.9	0.5 0.8
0.5	3.7	3.3	0.6
0.6	3.9	3.3	0.5
0.6	3.9	3.3	0.5
0.6	3.9	3.3	0.5
0.5	3.9	3.3	0.5
1.2	2.6	4.5	0.3
1.2	2.6	4.5	0.3
0	0.9	0.6	0.0
0	0.9	0.6	0
0	0.9	0.6	0
2	1	0.9	3.3
			_

8.0	1.4	1.8	1.3
0.4	3.9	1	0
0.2	1.4	1.3	0.3
0.4	3.3	1.9	0.5
0.4	3.3	1.9	0.5
0	0	0	0
0	0	0	0
0.9	3.9	3.5	1.2
0	1.9	1	0
			0
			0 0
			0
			0
			0
			0

Index Link 3.61% 1.75224

Insurance Fund 10.00% Management Cost 20.00%

## Woodland

Biodiversity Impact Score	Primary habitat required in offset	Target habitat distinctiveness		Target ha conditi	
				Condition	
0.0000	Woodland: Broad-leaved plantation	Medium	4	Moderate	

## Grassland

Biodiversity Impact Score	Primary habitat required in offset	eness Score Condition		
		eness	Score	Condition
0.0000	Grassland: Semi-improved neutral grassland	Medium	4	Moderate

Biodiversity Impact Score	Primary habitat required in offset	Target I distincti		Target ha conditi
		Distinctiv eness	Score	Condition
	Grassland: Semi-improved calcareous grassland	1edium hig	5	Moderate

## Wetland

Biodiversity Impact Score	Primary habitat required in offset	Target habitat distinctiv eness		Target ha conditi	
		eness	Score	Condition	
0.0000	Wetland: Standing Water (lined pond)	High	6	Good	

Diodiversity	D: 1 1:4 4 : 1: 66 4	Πανπαι	Targetne
	Primary habitat required in offset		
I Impact Scoro I	i illiai y liabitat required ili oliset	dictinctiv	l conditi

		eness	Score	Condition
0.0000	Wetland: Standing Water (unlined pond)	High	6	Good

Impact Score	Primary habitat required in offset	Habitat distinctiv		rarget na conditi
		eness	Score	Condition
0.0000	Wetland: Running Water (River / stream restoration	High	6	Good

Hedgerow

Biodiversity Impact Score	Primary habitat required in offset	Target habitat distinctiveness		Target ha conditi	
		eness Score		Condition	
0.00	Native species rich hedge with trees	High	6	Moderate	

## Biodiversity Accounting costs: <a href="https://tinyurl.com/BNG-costs">https://tinyurl.com/BNG-costs</a>

abitat ion	Time till target condition			Difficulty of creation		Hectares of habitat required
Score	(years)	Score	Difficulty	Score		
2	27	2.6	Low	1	1	0.0000

Provider Agreement Set-up costs
Н
£7,000
£O

abita ion	at	Time till target condition Creation		_		Strategic area	Hectares of habitat required
Sco	ore	(years)	Score	Difficulty	Score		
	2	10	1.4	Low	1	1	0.0000

Provider Agreement Set-up costs
Н
£7,000
£0

ibitat on	Time till target condition		Difficulty of creation		Strategic area	Hectares of habitat required
Score	Time (years)	Score	Difficulty	Score		
2	15	1.7	Medium	1.5	1	0.0000

Provider Agreement Set-up costs
Н
£7,000
£0

abitat ion	Time till cond	_	Difficulty of creation		Strategic area	Hectares of habitat required
Score	(years)	Score	Difficulty	Score		
3	5	1.2	Medium	1.5	2	0.0000

Provider Agreement Set-up costs
J
£7,000
£0

ıbıtat	Tillie till target	Difficulty of	Strategic	4
			9	of habitat l
1	condition	orootion		ui iiabitat j
On	CONDITION	Croation	J aroa I	

Score	(years)	Score	Difficulty	Score		
3	5	1.2	Medium	1	1	0.0000

J	
£7,000	
£0	

ion	Cond	_	creation		Strategic	habitat
Score	(years)	Score	Difficulty	Score		
3	3	1.1	Medium	1.5	1	0.00

Agreement				
J				
£7,000				
£0				

abitat	Time till cond		Difficulty of creation		Strategic Area	Km of habitat required
Score	(years)	Score	Difficulty	Score		
2	20	2	Low	1	1	0.00

Provider Agreement Set-up costs
Н
£7,000
£0

V	Average Voodland eation cost per ha	Woodland maintenance cost per ha for 30 years	30 yrs Maintenance Cost plus inflation	Estimated cost of offset	Insurance Contribution (index linked)
	1	£2513.33 = J	J x 1.75 = K	H + I + K = L	M
	£49,488	£75,400	3.61%		10%
	£0.00	£0.00	£0.00	£0.00	£0.00
					Cost per ha of

Average Meadow creation cost per ha	Meadow maintenance cost per ha for 30 years	30 yrs Maintenance Cost plus inflation	Estimated cost of offset	Insurance Contribution (index linked)
1	£2340 x 30 = J	J x 1.75 = K	H + I + K = L	M
£34,715	£70,200	3.61%		10%
£0.00	£0.00	£0.00	£0.00	£0.00
				Cost per ha of

Average Meadow creation cost per ha	Meadow maintenance cost per ha for 30 years	30 yrs Maintenance Cost plus inflation	Estimated cost of offset	Insurance Contribution (index linked)
1	£2340 x 30 = J	J x 1.75 = K	H + I + K = L	M
£34,862	£70,200	3.61%		10%
£0.00	£0.00	£0.00	£0.00	£0.00

Cost per ha of

Average lined pond creation cost per ha	Pond maintenance cost per ha for 30 years	30 yrs Maintenance Cost plus inflation at	Estimated cost of offset	Insurance Contribution (index linked)
K	£5263.33 x 30 = L	L x 1.75 = M	I + J + L = N	0
£262,877	£157,900	3.61%		10%
£0.00	£0.00	£0.00	£0.00	£0.00
				Cost per ha of

uninea pona		• • • • • •	LStilliated Cost	Continuation
	maintananca cost	Cost plus inflation		
creation cost	mamicinance cost	Oost plus illiation	of offcat	

K	£52	63.33 x 30 = L	L x 1.75 = M	I + J + L = N	0
£124,4	29	£157,900	3.61%		10%
£0.0	)	£0.00	£0.00	£0.00	£0.00
•					Cost per ha of

restoration	cost per km for 30	Cost plus inflation	of offeet	Contribution
K	£2000 x 30 = L	L x 1.75 = M	I + J + L = N	0
£530,000	£60,000	3.61%		10%
£0.00	£0.00	£0.00	£0.00	£0.00
				Cost per km of

Average Hedgerow creation cost per km	Hedgerow maintenance cost per km for 30 years	30 yrs Maintenance Cost plus inflation at	Estimated cost of offset	Insurance Contribution (index linked)
1	£7270 x 30 = J	J x 1.75 = K	H + I + K = L	M
£9,400	£218,100	3.61%		10%
£0.00	£0.00	£0.00	£0.00	£0.00

Cost per ha of

Management Cost (index linked)	Total Cost of Offset Contribution	
N	L + M + N	
20%		
£0.00	£0.00	
~0.00		
f habitat created	£0.00	

Management Cost (index linked)	Total Cost of Offset Contribution	
N	L + M + N	
20%		
£0.00	£0.00	
f habitat created	£0.00	
Cost per unit	£0.00	

Management Cost (index linked)	Total Cost of Offset Contribution
N	L + M + N
20%	
£0.00	£0.00
20100	
f habitat created	£0.00

Management Cost (index linked)	Total Cost of Offset Contribution
Р	N + O + P
20%	
£0.00	£0.00
f habitat created	£0.00
Cost per unit	£0.00

Cost	Offset

Р	N + O + P
20%	
£0.00	£0.00
f habitat created	£0.00
Cost per unit	£0.00

Cost	Offset
Р	N + O + P
20%	
£0.00	£0.00
f habitat created	£0.00
Cost per unit	£0.00

Management Cost	Total Cost of Offset
(index linked)	Contribution
N	L + M + N
20%	
£0.00	£0.00
f habitat created	£0.00
Cost per unit	£0.00