

Site name: Land off Berry Hill Road, Adderbury

Planning reference number: to be copied from the BIA sheet

	Habitat Area (ha)	Hedgerow impact (km)	Connectivity Features (km)	Habitat Biodiversity Value	Hedgerow Biodiversity Value	Connectivity Biodiversity Value
<b>Existing</b>						
Onsite Biodiversity Impact	3.88	0.00	0.00	8.69	8.88	0.00
Indirect Biodiversity Impact	0.00	0.00	0.00	0.00	0.00	0.00
<b>Total habitat / linear features impacted</b>	<b>3.88</b>	<b>0.00</b>	<b>0.00</b>	<b>8.69</b>	<b>8.88</b>	<b>0.00</b>
<b>Retained / Created / Enhanced</b>						
Onsite biodiversity retained	0.12	0.00	0.00	0.96	8.88	0.00
Onsite Creation	3.88	0.30	0.00	8.22	0.76	0.00
Biodiversity retained and enhanced	0.00	0.00	0.00	0.00	0.00	0.00
<b>Total biodiversity retained/enhanced</b>	<b>4.00</b>	<b>0.30</b>	<b>0.00</b>	<b>9.18</b>	<b>9.64</b>	<b>0.00</b>
<b>Trading Down</b>	n/a	n/a	n/a	0.00	-0.50	0.00
<b>Biodiversity Impact</b>	<b>n/a</b>	<b>n/a</b>	<b>n/a</b>	<b>0.49</b>	<b>0.26</b>	<b>0.00</b>

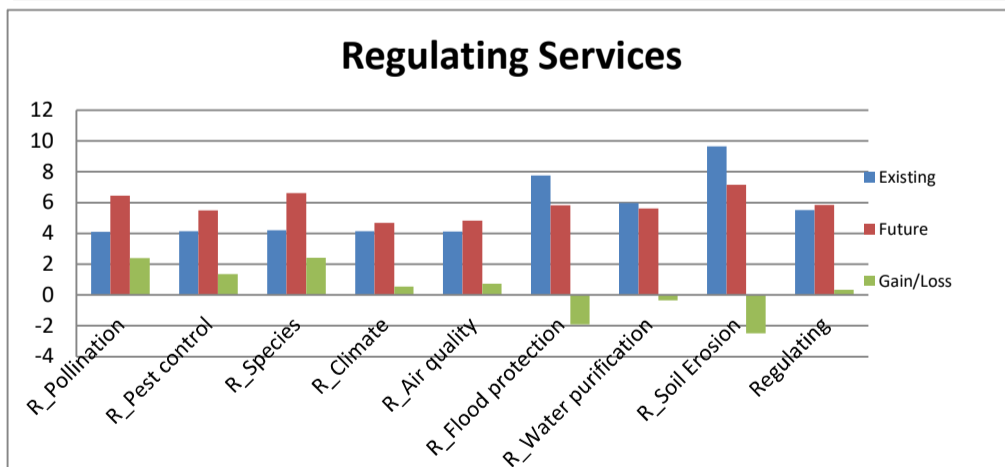
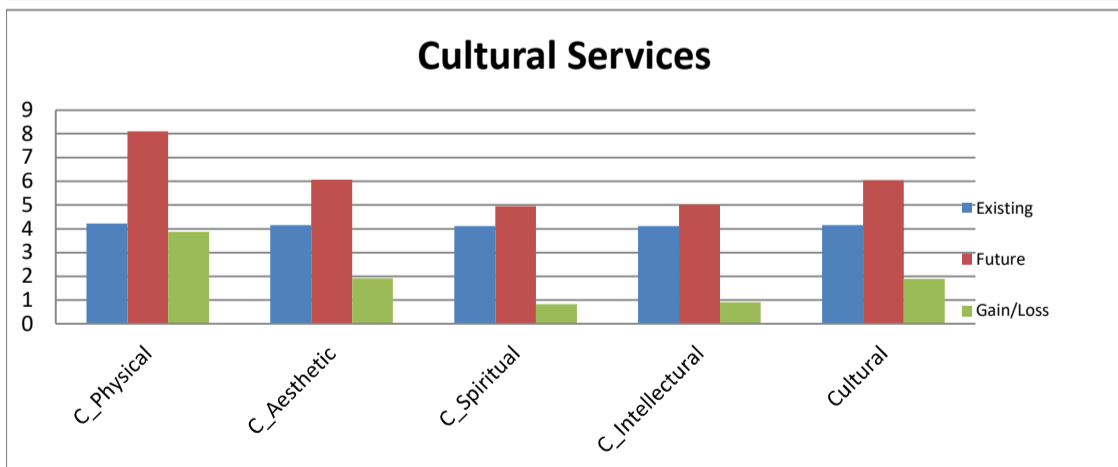
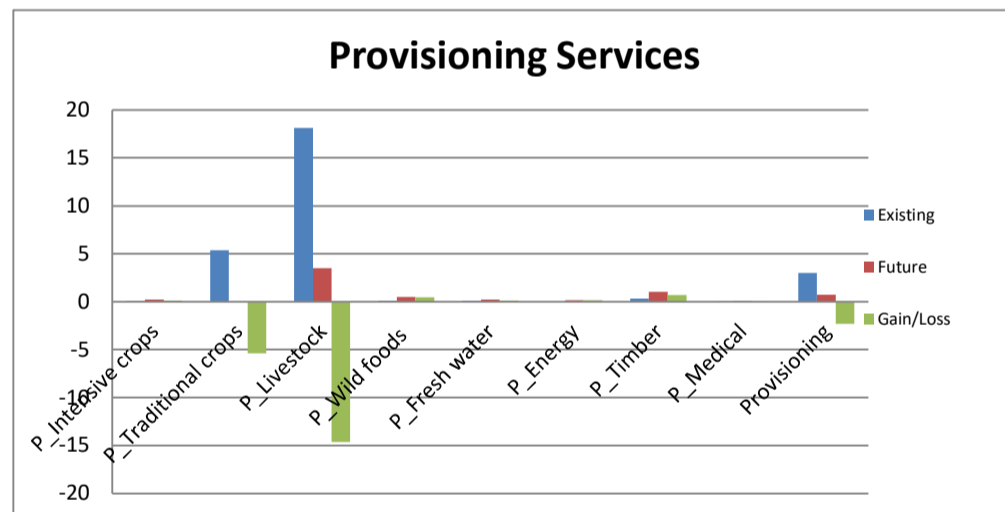
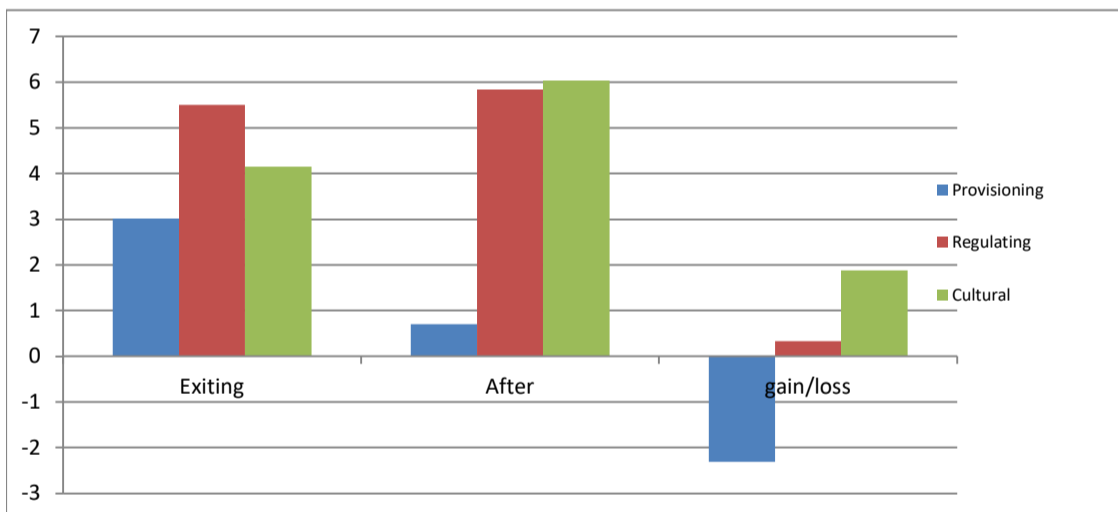
Habitat Impacts	Loss	Gain	Impact	%age losses	Compensatory Unit loss	Indicative Offset (ha)	WCC Offset units	WCC Indicative Offset Contribution
Woodland Habitat	0.16	1.02	0.86					
Grassland Habitat	7.18	6.27	-0.91					
Wetland Habitat	0.00	0.00	0.00					
Other Habitat (incl. Built Env)	0.39	0.93	0.54					
<b>Total</b>	<b>7.73</b>	<b>8.22</b>	<b>0.49</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>£0</b>
		Trading down	0.00					
			0.49					

Hedgerow Impacts	Loss	Gain	Trading down	Impact	Unit loss	Indicative Offset (km)	WCC Offset units	WCC Offset Contribution
Hedgerow	0.00	0.76	-0.50	0.26				

**SUMMARY**

This development will result in 0.49 Habitat Biodiversity Units gain; 0.26 Hedgerow Units gain and 0 Connectivity Biodiversity Units loss

**ECOSYSTEM SERVICES ANALYSIS**



For any questions with regard to biodiversity impact and this development please contact Warwickshire County Council Ecological Services: email: [planningecology@warwickshire.gov.uk](mailto:planningecology@warwickshire.gov.uk) or telephone 01926 418060

Warwickshire, Coventry & Solihull - Habitat Impact Assessment Calculator

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

Local Planning Authority:	Other
Site name:	Land off Berry Hill Road, Adderbury
Planning application reference number:	
Assessor:	RY
Date:	16/01/2023

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 WCC Ecological Services 01926 418060

Existing habitats on site Please enter all habitats within the site boundary			Habitat distinctiveness		Habitat condition		Habitats to be retained with no change within development		Habitats to be retained and enhanced within development		Habitats to be lost within development		Comment	
T. Note	code	Phase 1 habitat description	Habitat area (ha)	Distinctiveness	Score	Condition	Score	Area (ha)	Existing value	Area (ha)	Existing value	Area (ha)		Existing value
Direct impacts and retained habitats				A	B	C	A x B x C = D	E	A x B x E = F	G	A x B x G = H			
n/a		Built Environment: Buildings/hardstanding	0.11	none	0	Poor	1					0.11	0.00	Existing buildings and hardstanding.
J4		Other: Bare ground	0.09	Low	2	Poor	1					0.09	0.18	Existing patches of bare ground.
B4		Grassland: Improved grassland	3.59	Low	2	Poor	1					3.59	7.18	Existing grazed, improved grassland.
C31		Other: Tall ruderal	0.07	Medium-Low	3	Poor	1					0.07	0.21	Existing tall ruderal.
A3		Woodland: Scattered trees	0.14	Medium	4	Moderate	2	0.12	0.96			0.02	0.16	Existing scattered trees. One lost, with eight retained.
Total			4.00					0.12	0.96	0.00	0.00	3.88	7.73	J
Indirect Negative Impacts												Site habitat biodiversity value	$\sum D + \sum F + \sum H$	8.69
Before/after Including off site habitats impact			K					Value of loss from indirect impacts						
Before								$K \times A \times B = Li, Lii$						
After														
Before														
After														
Before														
After														
Before														
After														
Total			0.00					0.00	M					HIS = J + M
Habitat Impact Score (HIS)												7.73		

Proposed habitats on site (Onsite mitigation)			Target habitats distinctiveness		Target habitat condition		Time till target condition		Difficulty of creation / restoration		Habitat biodiversity value	Comment	
T. Note	code	Phase 1 habitat description	Area (ha)	Distinctiveness	Score	Condition	Score	Time (years)	Score	Difficulty	Score		$(N \times O \times P) / Q / R$
Habitat Creation			N	O	P	Q	R	S (= F)	T	U	V		
n/a		Built Environment: Buildings/hardstanding	1.34	none	0	Poor	1	3 Years	1.1	Low	1	0.00	Proposed buildings and hardstanding.
n/a		Built Environment: Gardens (lawn and planting)	0.46	Low	2	Poor	1	3 Years	1.1	Low	1	0.84	Proposed residential gardens.
J14		Other: Introduced shrub	0.05	Low	2	Poor	1	3 Years	1.1	Low	1	0.09	Proposed introduced shrub.
J12		Grassland: Amenity grassland	0.11	Low	2	Poor	1	3 Years	1.1	Low	1	0.20	Proposed amenity grassland comprising amenity turves.
B22		Grassland: Semi-improved neutral grassland	0.16	Medium	4	Moderate	2	3 Years	1.1	Medium	1.5	0.78	Proposed EG10 tussock grass mixture.
J12		Grassland: Amenity grassland	0.82	Low	2	Poor	1	3 Years	1.1	Low	1	1.49	Proposed EG22 strong lawn grass mixture.
B22		Grassland: Semi-improved neutral grassland	0.19	Medium	4	Moderate	2	3 Years	1.1	Medium	1.5	0.92	Proposed EH1 hedgerow mixture.
B22		Grassland: Semi-improved neutral grassland	0.37	Medium	4	Good	3	3 Years	1.1	Medium	1.5	2.69	Proposed EM2 standard purpose general meadow mixture.
B22		Grassland: Semi-improved neutral grassland	0.04	Medium	4	Moderate	2	3 Years	1.1	Medium	1.5	0.19	Proposed EM8 meadow mixture for wetlands.
A112		Woodland: Broad-leaved plantation	0.11	Medium	4	Moderate	2	25 years	2.4	Medium	1.5	0.24	Proposed native woodland and understorey planting in north of development.
A3		Woodland: Scattered trees	0.18	Medium	4	Moderate	2	25 years	2.4	Low	1	0.60	Proposed scattered trees throughout development.
A21		Woodland: Dense continuous scrub	0.05	Medium-Low	3	Moderate	2	15 years	1.7	Low	1	0.18	Proposed species-rich thicket mix along western boundary of development.
Total			3.88										
Habitat Enhancement													
Total			0.00										
Trading down correction value												0.00	
Habitat Mitigation Score (HMS)												8.22	
Habitat Biodiversity Impact Score												0.49	
Percentage of biodiversity impact loss												Gain	

	Loss	Gain	Impact
Woodland Habitat	0.16	1.02	0.86
Grassland Habitat	7.18	6.27	-0.91
Wetland Habitat	0.00	0.00	0.00
Other Habitat (including Built Environment)	0.39	0.93	0.54
Total	7.73	8.22	0.49
Trading down			0.00
Total			0.49



















Index Link 3.61% 1.752242  
 Insurance Fund 10.00%  
 Management Cost 20.00%

Woodland

Biodiversity Impact Score	Primary habitat required in offset	Target habitat distinctiveness		Target habitat condition		Time till target condition		Difficulty of creation		Non-strategic area	Hectares of habitat required
		Distinctiveness	Score	Condition	Score	Time (years)	Score	Difficulty	Score		
0.00	Woodland, Broad-leaved semi-natural woodland	High	6	Moderate	2	30	2.8	Medium	1.5	2	0.00

Provider Agreement Set up costs	Average Woodland creation cost per ha	Woodland maintenance cost per ha for 30 years	30 yrs Maintenance Cost plus inflation at	Estimated cost of offset	Insurance Contribution (index linked)	Management Cost (index linked)	Total Cost of Offset Contribution	
H	I	$E184 \times 30 = J$	$J \times 1.75 = K$	$H + I + K = L$	M	N	$L + M + N$	
£7,000	£1,564	£5,520	3.61%	£0.00	10%	20%	£0.00	
£0	£0.00	£0.00	£0.00	£0.00	£0.00	£0.00	£0.00	
							Cost per ha of habitat created	£0.00
							Cost per unit	£0.00

Grassland

Biodiversity Impact Score	Primary habitat required in offset	Target habitat distinctiveness		Target habitat condition		Time till target condition		Difficulty of creation		Non-strategic area	Hectares of habitat required
		Distinctiveness	Score	Condition	Score	Time (years)	Score	Difficulty	Score		
0.00	Grassland, Semi-improved neutral grassland	Medium	4	Good	3	25	2.4	Medium	1.5	2	0.00

Provider Agreement Set up costs	Average Meadow creation cost per ha	Meadow maintenance cost per ha for 30 years	30 yrs Maintenance Cost plus inflation at	Estimated cost of offset	Insurance Contribution (index linked)	Management Cost (index linked)	Total Cost of Offset Contribution	
H	I	$E227 \times 30 = J$	$J \times 1.75 = K$	$H + I + K = L$	M	N	$L + M + N$	
£7,000	£1,666	£6,810	3.61%	£0.00	10%	20%	£0.00	
£0	£0.00	£0.00	£0.00	£0.00	£0.00	£0.00	£0.00	
							Cost per ha of habitat created	£0.00
							Cost per unit	£0.00

Wetland

Biodiversity Impact Score	Primary habitat required in offset	Target habitat distinctiveness		Target habitat condition		Time till target condition		Difficulty of creation		Strategic area	Hectares of habitat required
		Distinctiveness	Score	Condition	Score	Time (years)	Score	Difficulty	Score		
0.00	Wetland, Standing Water	High	6	Moderate	2	15	1.4	Medium	1.5	2	0.00

Pond Cluster size 4

Number of Ponds to be created	Number of Pond clusters to be created	Provider Agreement Set-up costs	Average Pond creation cost per pond	Pond maintenance cost per pond for 30 years	30 yrs Maintenance Cost plus inflation at	Estimated cost of offset	Insurance Contribution (index linked)	Management Cost (index linked)	Total Cost of Offset Contribution	
M	I	J	K	$E70 \times 30 = L$	$L \times 1.75 = M$	$I + J + L = N$	O	P	$N + O + P$	
L / 0.017ha (av. Pond size)		£7000 per pond cluster	£1,212	£2,100	3.61%	£0.00	10%	20%	£0.00	
0	0.00	£0	£0.00	£0.00	£0.00	£0.00	£0.00	£0.00	£0.00	
									Cost per pond cluster created	£0.00
									Cost per unit	£0.00

Average H52 pond	m2	ha	Plus grassland (G)
Stoneleigh other	167	0.017	0.034
Burton Green	100	0.01	
Finham Brook ponds	300	0.03	
Finham Brook ponds	250	0.02	
Finham Brook ponds	100	0.01	

Hedgerow

Biodiversity Impact Score	Primary habitat required in offset	Target habitat distinctiveness		Target habitat condition		Time till target condition		Difficulty of creation		Strategic Area	Km of habitat required
		Distinctiveness	Score	Condition	Score	Time (years)	Score	Difficulty	Score		
0.00	species rich hedge with trees	Medium-High	5	Good	3	20	2	Low	1	1	0.00 metres

Provider Agreement Set up costs	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)	Management Cost (index linked)	Total Cost of Offset Contribution	
H	I	$E220 \times 30 = J$	$J \times 1.75 = K$	$H + I + K = L$	M	N	$L + M + N$	
£7,000	£9,400	£218,100	3.61%	£0.00	10%	20%	£0.00	
£0	£0.00	£0.00	£0.00	£0.00	£0.00	£0.00	£0.00	
							Cost per ha of habitat created	£0.00
							Cost per unit	£0.00