

Biodiversity Impact Assessment Summary

Site name: Padge Hall Farm Hinckley
Planning reference number: to be copied from the BIA sheet



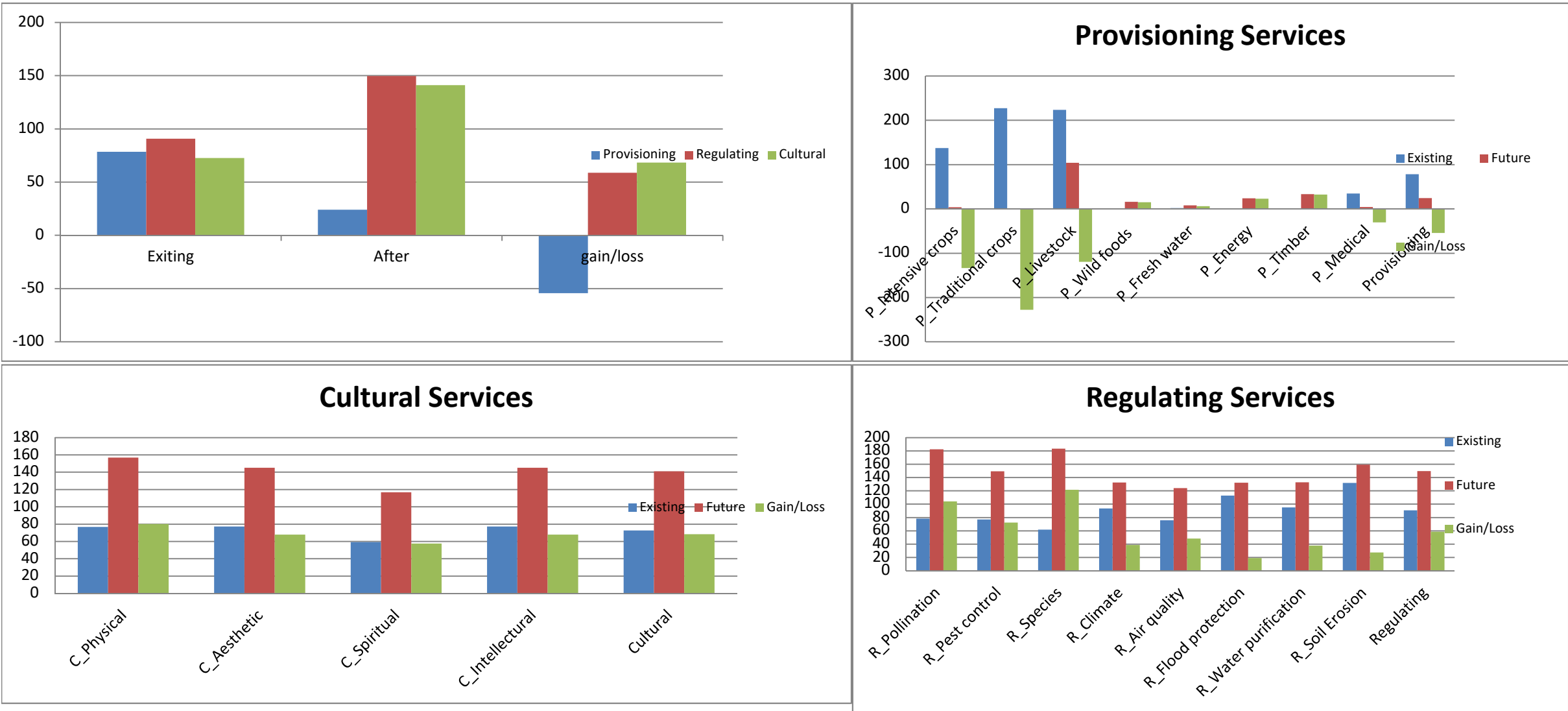
Existing	Habitat Area (ha)	Hedgerow impact (km)	Connectivity Features (km)	Habitat Biodiversity Value	Hedgerow Biodiversity Value	Connectivity Biodiversity Value
Onsite Biodiversity Impact	61.12	1.43	0.00	151.79	62.26	0.00
Indirect Biodiversity Impact	0.00	0.00	0.00	0.00	0.00	0.00
Total habitat / linear features impacted	61.12	1.43	0.00	151.79	62.26	0.00
Retained / Created / Enhanced						
Onsite biodiversity retained	1.54	7.39	0.00	6.74	0.00	0.00
Onsite Creation	61.12	4.01	0.00	111.89	18.06	0.00
Biodiversity retained and enhanced	12.44	0.00	0.00	69.19	0.00	0.00
Total biodiversity retained/enhanced	75.10	11.40	0.00	187.82	18.06	0.00
Trading Down						
	n/a	n/a	n/a	0.00	-1.82	0.00
Biodiversity Impact	n/a	n/a	n/a	36.03	8.28	0.00

Habitat Impacts								WCC Indicative
	Loss	Gain	Impact	%age losses	Compensatory Unit loss	Indicative Offset (ha)	WCC Offset units	Offset Contribution
Woodland Habitat	0.51	55.63	55.12					
Grassland Habitat	49.31	95.18	45.87					
Wetland Habitat	0.00	4.40	4.40					
Other Habitat (incl. Built Env)	69.36	0.00	-69.36			Transferred to Wetland		
Total	119.18	155.21	36.03	0.00	0.00	0.00	0.00	£0
		Trading down	0.00					
			36.03					

Hedgerow Impacts	Loss	Gain	Trading down	Impact	Unit loss	Indicative Offset (km)	WCC Offset units	WCC Offset Contribution
Hedgerow	7.96	18.06	-1.82	8.28				

SUMMARY
This development will result in 36.03 Habitat Biodiversity Units gain; 8.28 Hedgerow Units gain and 0 Connectivity Biodivesity 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 or telephone 01926 418060

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	Enter value
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	Calculation
	Automatic lookup
	Automatic Condition setting
	Result

Local Planning Authority:	
Site name:	Padge Hall Farm Hinckley
Planning application reference number:	
Assessor:	
Date:	

Please fill in both tables
Please do not edit the formulae or structure
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If additional rows are required, or to provide feedback on the calculator please contact WCC Ecological Services 01926 418060

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Please fill in both tables

These units are not transferable as compensation for either the Habitat or Connectivity Impact Assessment scores.

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If additional rows are required,
or to provide feedback on the calculator
please contact WCC Ecological Services

Indirect Negative Impacts											Value of loss from indirect impacts X = A x B = L x L ₁		Site Invasive Biodiversity Value	62.20
Before/after impact	K										L ₁ - L ₂			
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CAUTION - Destruction of features high distinctiveness may be against local policy. Has the mitigation hierarchy been followed, can impact to these habitats be avoided?

Any unavoidable loss of valuable habitats must be replaced like-for-like. . All newly planted hedges should be native species-rich hedgerows ideally with trees

[illegible]

	HBIS	
Hedge Biodiversity Impact Score	8.28	Gains
Percentage of linear impact loss		

Please fill in both tables

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Habitat trading down correction calculator

Existing Site						
Existing habitat	Area of habitat impact	Distinctiveness	High distinctiveness habitat loss biodiversity value	Medium-High distinctiveness habitat loss biodiversity value	Medium distinctiveness habitat loss biodiversity value	Medium-Low distinctiveness habitat loss biodiversity value
Direct impacts						
Other: Bare ground	0.07	Low	0.00	0.00	0.00	0.00
Built Environment: Buildings/hardstanding	0.24	none	0.00	0.00	0.00	0.00
Built Environment: Buildings/hardstanding	1.62	none	0.00	0.00	0.00	0.00
Other: Arable	34.25	Low	0.00	0.00	0.00	0.00
Grassland: Improved grassland	24.23	Low	0.00	0.00	0.00	0.00
Grassland: Improved grassland	0.05	Low	0.00	0.00	0.00	0.00
Grassland: Poor semi-improved grassland	0.07	Medium-Low	0.00	0.00	0.00	0.21
Other: Tall ruderal	0.24	Medium-Low	0.00	0.00	0.00	0.72
Woodland: Dense continuous scrub	0.17	Medium-Low	0.00	0.00	0.00	0.51
Woodland: Scattered scrub		Medium	0.00	0.00		0.00
Wetland: Standing water	0.00	High	0.00	0.00	0.00	0.00
Wetland: Running water		High		0.00	0.00	0.00
Wetland: Running water		High		0.00	0.00	0.00
Woodland: Scattered trees		Medium	0.00	0.00		0.00
Grassland: Poor semi-improved grassland	0.18	Medium-Low	0.00	0.00	0.00	0.54
-	-		0.00	0.00	0.00	0.00
-	-		0.00	0.00	0.00	0.00
-	-		0.00	0.00	0.00	0.00
-	-		0.00	0.00	0.00	0.00
-	-		0.00	0.00	0.00	0.00
-	-		0.00	0.00	0.00	0.00
-	-		0.00	0.00	0.00	0.00
-	-		0.00	0.00	0.00	0.00
-	-		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
-	-		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						
-	-		0.00	0.00	0.00	0.00
-	-		0.00	0.00	0.00	0.00
-	-		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	61.12		0.00	0.00	0.00	1.98

Proposed Site						
Proposed habitat creation	Area of habitat creation	Distinctiveness	High distinctiveness proposed biodiversity value	Medium-High distinctiveness proposed biodiversity value	Medium distinctiveness proposed biodiversity value	Medium-Low distinctiveness proposed biodiversity value
Built Environment: Buildings/hardstanding	28.19	none	0.00	0.00	0.00	0.00
Grassland: Semi-improved neutral grassland	7.25	Medium	0.00	0.00	22.75	0.00
Woodland: Broad-leaved plantation	2.79	Medium	0.00	0.00	4.96	0.00
Grassland: Amenity grassland	6.47	Low	0.00	0.00	0.00	0.00
Woodland: Scattered scrub	7.92	Medium	0.00	0.00	45.26	0.00
Grassland: Semi-improved neutral grassland	1.54	Medium	0.00	0.00	4.83	0.00
Grassland: Semi-improved neutral grassland	3.99	Medium	0.00	0.00	12.52	0.00
Woodland: Scattered trees	2.03	Medium	0.00	0.00	5.41	0.00
Wetland: Standing water	0.19	High	1.27	0.00	0.00	0.00
Wetland: Standing water	0.55	High	1.83	0.00	0.00	0.00
Wetland: Reedbed	0.09	High	0.90	0.00	0.00	0.00
Wetland: Running water	0.11	High	0.40	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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Proposed habitat enhancement	Area	Distinctiveness	High	Medium-High	Medium	Medium-Low
Grassland: Semi-improved neutral grassland	1.10	Medium	0.00	0.00	3.88	0.00
Grassland: Semi-improved neutral grassland	10.35	Medium	0.00	0.00	36.53	0.00
Grassland: Semi-improved neutral grassland	0.99	Medium	0.00	0.00	2.91	0.00
-	-		0.00	0.00	0.00	0.00
-	-		0.00	0.00	0.00	0.00
-	-		0.00	0.00	0.00	0.00
-	-		0.00	0.00	0.00	0.00
-	-		0.00	0.00	0.00	0.00
-	-		0.00	0.00	0.00	0.00
-	-		0.00	0.00	0.00	0.00
-	-		0.00	0.00	0.00	0.00
-	-		0.00	0.00	0.00	0.00
-	-		0.00	0.00	0.00	0.00
-	-		0.00	0.00	0.00	0.00
-	-		0.00	0.00	0.00	0.00
-	-		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	73.56		4.40	0.00	139.05	0.00

Trading Down Correction	High	Medium-High	Medium	Medium-Low
Value of existing habitat loss per distinctiveness	0.00	0.00	0.00	1.98
Value of created habitats per distinctiveness	4.40	0.00	139.05	0.00
Would this result in trading down habitats?	Never	No	No	No
If no, value each distinctiveness still requiring compensation	0	0	0	0
Surplus gain to be carried over to compensate loss of lower habitats (rolls over)	4.40	4.40	143.45	141.47
Trading down correction value	n/a	0	0	0

This calculator assess whether there is any down trading in habitats value. E.g. loss of high distinctiveness habitat cannot be compensated for by surplus medium mitigation. It calcul which enters into the primary calculator to take this into account. Such that the full level of high habitat loss compensation is required. However if additional medium gain is generated high loss, this surplus is still be taken into account with on site gain.

CAUTION - Destruction of habitats of high distinctiveness, e.g. lowland meadow or ancient woodland, may be against local policy. Has 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.

[illegible][illegible]

This calculator assess whether there is any down trading in linear habitats. E.g. loss of high distinctiveness habitat and surplus creation of medium or low habitats. It calculates a correction value which enters into the primary calculator to take this into account. Such that the full level of high habitat loss compensation is required. However if additional medium gain is generated above the value of the high loss, this surplus is still be taken into account with on site gain.

CAUTION - Destruction of each habitat of medium distinctiveness and above should be mitigated for with creation/restoration of a similar habitat. Trading up of habitat type is encouraged.

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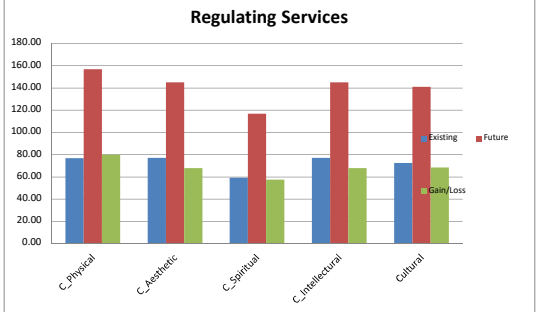
Biodiversity Impact Assessment Summary

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				Woodland					Grassland					Wetland					Other					Built Environment				
Enhancement	Distinctiveness	Area	Value	High	Medium-High	Medium	Medium-Low	Low	High	Medium-High	Medium	Medium-Low	Low	High	Medium-High	Medium	Medium-Low	Low	High	Medium-High	Medium	Medium-Low	Low	High	Medium-High	Medium	Medium-Low	Low
Grassland: Semi-improved neutral grassland	Medium	1.10	3.88								3.88																	
Grassland: Semi-improved neutral grassland	Medium	10.35	36.53								36.53																	
Grassland: Semi-improved neutral grassland	Medium	0.99	2.91								2.91																	
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	Loss	Gain	%		
Offset Requirements	119.18	155.21	36.03	-69.36	
Woodland	0.51	55.63	55.12	152.98%	182.33
Grassland	49.31	95.18	45.87	127.31%	151.73
Wetland	0.00	4.40	4.40	12.21%	14.55
Other	69.36	0.00	-69.36	100.00%	-192.51%
Built Environment	0.00	0.00	0.00		-229.43

Ecosystem Service	Existing	After	gain/loss	P_Intervent	P_Tradition	P_Livestock	P_Wild	P_Fresh	P_Energy	P_Timber	P_Medical	Provisioning	R_Pollution	R_Pest	control	R_Species	R_Climate	R_Air	quality	R_Flood	protection	R_Water	purif	R_Soil	Erosion	Regulating	C_Physical	C_Aesthetic	C_Spiritual	C_Intellectual	Cultural
Provisioning	78.47	24.16	-54.32	137.29	-227.42	223.67	0.1	2.01	-0.67	0.63	74.38	78.47	78.42	77.23	61.82	90.00	75.83	113.00	95.05	131.90	90.64	76.73	77.22	59.25	77.25	72.61					
Regulating	90.54	143.95	53.41	137.29	-227.42	223.67	0.1	2.01	-0.67	0.63	74.38	78.47	78.42	77.23	61.82	90.00	75.83	113.00	95.05	131.90	90.64	76.73	77.22	59.25	77.25	72.61					
Cultural	72.61	140.98	68.38	137.29	-227.42	223.67	14.83	0.1	2.01	22.80	-34.35	-54.32	104.16	77.23	118.50	38.84	48.27	19.03	37.59	25.76	57.83	80.10	67.83	57.25	67.83	68.38					



Biodiversity Impact Assessment Summary

		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	£184 x 30 = J	J x 1.75 = K	H + I + K = L	M	N	L + M + N
£7,000	£1,584	£5,520	3.61%		10%	20%	
£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	£227 x 30 = J	J x 1.75 = K	H + I + K = L	M	N	L + M + N
£7,000	£1,686	£6,810	3.61%		10%	20%	
£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

Werland											
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
		Distinctive ness	Score	Condition	Score	Time (years)	Score	Difficulty	Score		
0.00	Wetland: Standing Water	High	6	Moderate	2	10	1.4	Medium	1.5	2	0.00

Pond Cluster size	4
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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
H	I	J	K	£70 x 30 = L	L x 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%		10%	20%	
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

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

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	£7270 x 30 = J	J x 1.75 = K	H + I + K = L	M	N	L + M + N
£7,000	£9,400	£218,100	3.61%		10%	20%	
£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

	m2	ha	Plus grassland (x2)
Average HS2 pond	167	0.017	0.034
Stoneleigh otter	200	0.02	
Burton Green	100	0.01	
Burton Green	100	0.01	
Finham Brook ponds	300	0.03	
Finham Brook ponds	200	0.02	
Finham Brook ponds	100	0.01	

0.00 metres