

Mallard Pass Solar Farm

Environmental Statement Volume 2 Appendix 7.6: Ecology and Biodiversity - Biodiversity Net Gain Metric

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1.0 Biodiversity Net Gain Calculation

- 1.1.1. BSG Ecology have undertaken a Biodiversity Net Gain (BNG) assessment for the proposed Mallard Pass Solar Farm. Mallard Pass Solar Farm (hereafter 'the Proposed Development') is a proposed Solar Farm which would allow for the generation and export of electricity exceeding 50 megawatts (MW) on approximately 852ha of land within Lincolnshire and Rutland. The Proposed Development will be located within the Order limits (the land shown on the Works Plans [EN010127/APP/2.2] within which the Proposed Development can be carried out).
- 1.1.2. The Proposed Development and associated works required to facilitate the construction, operation and maintenance of the Proposed Development are the subject of a Development Consent Order (DCO) Application. The location of the Order limits is shown on *Figure 1.1: Order limits Location Plan* of the Environmental Statement (ES) [EN010127/APP/6.3] and is described in further detail within *Chapter 3: Description of Order limits*, of the ES [EN010127/APP/6.1].
- 1.1.3. The principal components of the Proposed Development comprise the following:
 - PV Arrays;
 - Mounting Structures;
 - Inverters;
 - Transformers;
 - Switchgears;
 - Onsite Substation and Ancillary Buildings;
 - Low Voltage Distribution Cabling;
 - Grid Connection Cables;



- Fencing, security and ancillary infrastructure;
- Access Tracks;
- Temporary Construction Compounds;
- Mitigation and Enhancement Areas; and
- Green infrastructure (GI).
- 1.1.4. The further details of the Green Infrastructure proposals are set within the outline Landscape and Ecological Management Plan (oLEMP) [EN010127/APP/7.9] which includes details of the proposed habitats as illustrated on the Green Infrastructure Strategy Plans.
- 1.1.5. The BNG assessment has been undertaken to quantify the overall effect on biodiversity and to inform the habitat mitigation requirement for the Proposed Development using Biodiversity Metric 3.1 in accordance with the accompanying guidance and best practice principles (Ref 1, Ref 2, Ref 3).
- 1.1.6. The biodiversity calculator is provided in full within *Annex 1* of this report.



2.0 Results

- 2.1.1. The Green Infrastructure Strategy Plan has been assessed for this BNG calculation and the proposed habitats, as included in the BNG metric are as follows:
 - Modified Grassland (416.1 ha)
 - Other Neutral Grassland (118.9 ha)
 - Lowland mixed deciduous woodland (0.02ha)
 - Mixed woodland (0.2 ha)
 - Wet Woodland (3.72 ha)
 - Tree belt (7.5 km)
 - Native Species Rich hedgerows (13.9 km)
- 2.1.2. A summary of the results is provided below in Table 1

Table 1 - Summary of BNG Assessment

Onsite baseline	Habitat units	1922.69
	Hedgerow units	264.00
	River units	88.01
Onsite post intervention	Habitat units	3310.69
(Including habitat retention, creation & enhancement)	Hedgerow units	371.81
,	River units	88.01
Onsite net % change	Habitat units	72.19%
(including habitat retention, creation & enhancement)	Hedgerow units	40.83%
,	River units	0.00%

2.1.3. Overall, the Proposed Development results in a net gain for both habitats (72.19%) and hedgerow (40.83%). There is a 0% change for river units. For rivers, 8.8 river units are required to achieve a 10% net gain, on the basis that



- relevant land is included in the calculations notwithstanding that no impacts are predicted to occur to river habitats.
- 2.1.4. The West Glen River runs north to south through the central part of the Order limits, through fields 20, 21, 24 and 26. Within the Order limits, the extent of the West Glen River is subject to Work Number 4, as shown on the Work Plans [EN010127/APP/2.2], which allows for electrical cables and communication cables, connecting the PV Arrays and the Onsite Substation. The electrical cables and communications cables will be Horizontally Direction Drilled (HDD) beneath the West Glen River, with a minimum offset from the West Glen River of 10m to HDD works as set out in the Design Guidance within the Design and Access Statement [EN010127/APP/7.3]. These measures will ensure the retention of the West Glen River and associated habitats and will not result in hydrological changes.
- 2.1.5. The West Glen River Corridor was identified as a key structuring landscape scale component on which to build the Proposed Development around. Whilst the Proposed Development will not result in the removal of habitats associated with the installation of the electrical and communication cables, opportunities for improvements along the West Glen River Corridor have been identified and are set out within the oLEMP, which includes:
 - new wet woodland / riparian planting in the West Glen River Corridor;
 - Enhancement to the river corridor is proposed with new riparian planting such as wet woodland/carr woodland and also the creation of shallow scrapes to provide new habitat to fauna, including birds
 - Creation of shallow scrapes designed to flood periodically will be included along the West Glen Corridor. These will be seeded with species typical of flooded meadows. These features will provide foraging habitats for wintering wildfowl and contributing to diversifying the habitats along the river corridor.



- Otter holts will be created adjacent to the West Glen River in secluded, not publicly accessible areas. These will include an entrance tunnel and a large chamber, based on approved designs for these features.
- 2.1.6. During the pre-application stage, the Applicant has engaged with Anglian Water who have identified the West Glen River for potential works to improve biodiversity and riparian habitats as part of their Catchment Based Approach (CaBA) partnerships programme. These works are mutually compatible and beneficial with the aspiration GI Strategy and would bring biodiversity benefits to the West Glen River. The PV Arrays have been removed from both the west and east banks of the West Glen River to ensure that the Proposed Development does not prejudice any forthcoming design and will continue to work with Anglian Water to deliver to deliver a design that meets the objectives of the Green Infrastructure Strategy, as described in the oLEMP. This is secured through the Design Guidance, as set out within Section 5 of the Design and Access Statement, which states that:
 - "PL3.2 The Proposed Development will be cognisant of and contribute positively where possible to conservation works planned by Anglian Water to the West Glen River."



3.0 Assumptions

- 3.1.1. The following assumptions have been made in the calculation of the BNG:
 - a. The assessment is based upon the Green Infrastructure Strategy Plans contained within the oLEMP.
 - b. The management regimes during the operational phase of the Proposed Development for the different habitats are set out within the oLEMP. These management regimes have been tailored so to meet the target condition set within the BNG calculator as assessed in relation to current Natural England guidance (Ref 4).
 - c. There are no permanent impacts to the West Glen River as the electrical cables will be horizontally drilled beneath the river channel and the construction infrastructure will be offset by a minimum of 10m from the bank of the river.
 - d. All existing and proposed habitat areas and lengths included within the assessment have been measured manually using ArcGIS based on overlaying the Phase 1 Habitat Plan and the Green Infrastructure Strategy Plans, as such habitat areas for the purposes of the BNG calculator are approximations only. However, the approximations are not viewed to impact the results of the assessment.



4.0 References

- Ref 1 Natural England's Biodiversity Metric 3.1 (online source). Natural England (2022).
- Ref 2 The Biodiversity Metric 3.1 user guide (+ short user guide) and technical supplement.
- Ref 3 Biodiversity Net Gain: Good Practice Principles for Development, A Practical Guide (2020).
- Ref 4 Natural England Joint Publication JP039. The biodiversity metric 3.1: auditing and accounting for biodiversity. Condition assessment sheets (Excel format) ISBN 978-1-78354-955-9 (2022)

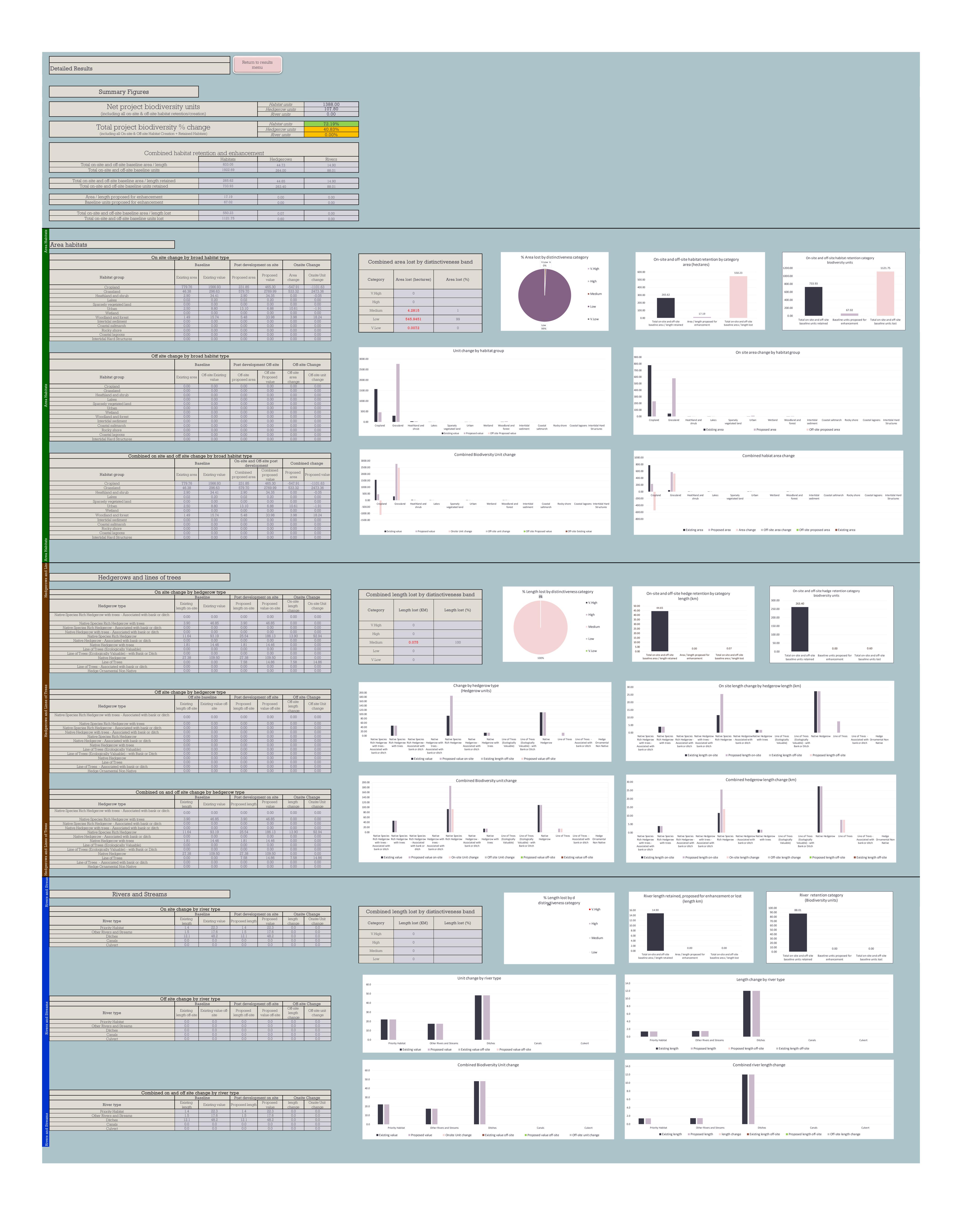


Annex 1 - BNG Calculator

Headline Results

Return to

	Habitat units	1922.69				
On-site baseline	Hedgerow units	264.00				
	River units	88.01				
On site ment interpreties	Habitat units	3310.69				
On-site post-intervention	Hedgerow units	371.81				
(Including habitat retention, creation & enhancement)	River units	88.01				
On gita not 0/ alaman	Habitat units	72.19%				
On-site net % change	Hedgerow units	40.83%				
(Including habitat retention, creation & enhancement)	River units	0.00%				
	Habitat units	0.00				
Off-site baseline	Hedgerow units	0.00				
	River units	0.00				
	Habitat units	0.00				
Off-site post-intervention	Hedgerow units	0.00				
(Including habitat retention, creation & enhancement)	River units	0.00				
	Habitat units	1388.00				
Total net unit change	Hedgerow units	107.80				
(including all on-site & off-site habitat retention, creation & enhancement)	River units	0.00				
Total and with most 0/ allowed and allowed first and allowed	Habitat units	72.19%				
Total on-site net % change plus off-site surplus	Hedgerow units	40.83%				
(including all on-site & off-site habitat retention, creation & enhancement)	River units	0.00%				
Trading rules Satisfied? Yes						





ı	Trading Summary											
	Distinctiveness Group	Trading Rule	Trading Satisfied?									
	Very High	Bespoke compensation likely to be required 🛠	Yes√									
	High	Same habitat required =	Yes√									
	Medium	Same broad habitat or a higher distinctiveness habitat required (≥)	Yes√									
	Low	Same distinctiveness or better habitat required ≥	Yes√									

Very High Distinctiveness								
Habitat group	Group Un Cha		Off Site Unit Change	Project wide Unit Change	Unit Losses			
Grassland - Lowland dry acid grassland	Grassland	0.00	0.00	0.00				
Grassland - Lowland meadows	Grassland	0.00	0.00	0.00				
Grassland - Upland hay meadows	Grassland	0.00	0.00	0.00				
Heathland and shrub - Mountain heaths and willow scrub	Heathland and shrub	0.00	0.00	0.00				
Lakes - Aquifer fed naturally fluctuating water bodies	Lakes	0.00	0.00	0.00				
Sparsely vegetated land - Calaminarian grasslands	Sparsely vegetated land	0.00	0.00	0.00				
Sparsely vegetated land - Limestone pavement	Sparsely vegetated land	0.00	0.00	0.00				
Wetland - Blanket bog	Wetland	0.00	0.00	0.00				
Wetland - Depressions on Peat substrates (H7150)	Wetland	0.00	0.00	0.00				
Wetland - Fens (upland and lowland)	Wetland	0.00	0.00	0.00				
Wetland - Lowland raised bog	Wetland	0.00	0.00	0.00				
Wetland - Oceanic Valley Mire[1] (D2.1)	Wetland	0.00	0.00	0.00				
Wetland - Purple moor grass and rush pastures	Wetland	0.00	0.00	0.00				
Wetland - Transition mires and quaking bogs (H7140)	Wetland	0.00	0.00	0.00				
Woodland and forest - Wood-pasture and parkland	Woodland and forest	0.00	0.00	0.00				
Rocky shore - High energy littoral rock - on peat, clay or chalk	Rocky shore	0.00	0.00	0.00				
Rocky shore - Moderate energy littoral rock - on peat, clay or chalk	Rocky shore	0.00	0.00	0.00				
Rocky shore - Low energy littoral rock - on peat, clay or chalk	Rocky shore	0.00	0.00	0.00				
Rocky shore - Features of littoral rock - on peat, clay or chalk	Rocky shore	0.00	0.00	0.00				
Intertidal sediment - Littoral seagrass on peat, clay or chalk	Intertidal sediment	0.00	0.00	0.00				
		0.00	0.00	0.00	0.00			

Very High Distinctiveness Summary

Very High Distinctiveness Units available to offset lower distinctiveness defecit

0.00

High Distinctiveness								
Habitat group	Group	On Site Unit Change	Off Site Unit Change	Project wide Unit Change	Losses not yet accounted for			
Grassland - Traditional orchards	Grassland	0.00	0.00	0.00				
Grassland - Floodplain Wetland Mosaic (CFGM)	Grassland	0.00	0.00	0.00				
Grassland - Lowland calcareous grassland	Grassland	0.00	0.00	0.00				
Grassland - Tall herb communities (H6430)	Grassland	0.00	0.00	0.00				
Grassland - Upland calcareous grassland	Grassland	0.00	0.00	0.00				
Heathland and shrub - Lowland Heathland	Heathland and shrub	0.00	0.00	0.00				
Heathland and shrub - Sea buckthorn scrub (Annex 1)	Heathland and shrub	0.00	0.00	0.00				
Heathland and shrub - Upland Heathland	Heathland and shrub	0.00	0.00	0.00				
Lakes - High alkalinity lakes	Lakes	0.00	0.00	0.00				
Lakes - Low alkalinity lakes	Lakes	0.00	0.00	0.00				
Lakes - Marl Lakes	Lakes	0.00	0.00	0.00				
Lakes - Moderate alkalinity lakes	Lakes	0.00	0.00	0.00				
Lakes - Peat Lakes	Lakes	0.00	0.00	0.00				
Lakes - Ponds (Priority Habitat)	Lakes	0.00	0.00	0.00				
Lakes - Temporary lakes, ponds and pools	Lakes	0.00	0.00	0.00				
Sparsely vegetated land - Coastal sand dunes	Sparsely vegetated land	0.00	0.00	0.00				
Sparsely vegetated land - Coastal vegetated shingle	Sparsely vegetated land	0.00	0.00	0.00				
Sparsely vegetated land - Inland rock outcrop and scree habitats	Sparsely vegetated land	0.00	0.00	0.00				
Sparsely vegetated land - Maritime cliff and slopes	Sparsely vegetated land	0.00	0.00	0.00				
Urban - Open Mosaic Habitats on Previously Developed Land	Urban	0.00	0.00	0.00				
Wetland - Reedbeds	Wetland	0.00	0.00	0.00				
Woodland and forest - Felled	Woodland and forest	0.00	0.00	0.00				
Woodland and forest - Lowland beech and yew woodland	Woodland and forest	0.00	0.00	0.00				
Woodland and forest - Lowland mixed deciduous woodland	Woodland and forest	0.02	0.00	0.02				
Woodland and forest - Native pine woodlands	Woodland and forest	0.00	0.00	0.00				
Woodland and forest - Upland birchwoods	Woodland and forest	0.00	0.00	0.00				
Woodland and forest - Upland mixed ashwoods	Woodland and forest	0.00	0.00	0.00				
Woodland and forest - Upland oakwood	Woodland and forest	0.00	0.00	0.00				
Woodland and forest - Wet woodland	Woodland and forest	17.56	0.00	17.56				
Coastal lagoons - Coastal lagoons	Coastal lagoons	0.00	0.00	0.00				
Rocky shore - High energy littoral rock	Rocky shore	0.00	0.00	0.00				
Rocky shore - Moderate energy littoral rock	Rocky shore	0.00	0.00	0.00				
Rocky shore - Low energy littoral rock	Rocky shore	0.00	0.00	0.00				
Rocky shore - Features of littoral rock	Rocky shore	0.00	0.00	0.00				
Intertidal sediment - Littoral mud	Intertidal sediment	0.00	0.00	0.00				
Intertidal sediment - Littoral mixed sediments	Intertidal sediment	0.00	0.00	0.00				
Coastal saltmarsh - Saltmarshes and saline reedbeds	Coastal Saltmarsh	0.00	0.00	0.00				
Intertidal sediment - Littoral biogenic reefs - Mussels	Intertidal sediment	0.00	0.00	0.00				
Intertidal sediment - Littoral biogenic reefs - Sabellaria	Intertidal sediment	0.00	0.00	0.00				
Intertidal sediment - Features of littoral sediment	Intertidal sediment	0.00	0.00	0.00				
Intertidal sediment - Littoral muddy sand	Intertidal sediment	0.00	0.00	0.00				
		17.59	0.00	17.59	0.00			

High Distinctiveness Summary									
High Distinctiveness Units available to offset lower distinctiveness defecit	17.59								
Unit Defecit; Like for like not satisfied	O .00								

Medium Distinctiveness								
Habitat Group	Group	On site unit change	Off Site unit Change	Project wide unit change	Cumulative Broad Habitat Change			
Cropland - Arable field margins cultivated annually	Cropland	0.00	0.00	0.00				
Cropland - Arable field margins game bird mix	Cropland	-11.61	0.00	-11.61	-11.61			
Cropland - Arable field margins pollen & nectar	Cropland	0.00	0.00	0.00				
Cropland - Arable field margins tussocky	Cropland	0.00	0.00	0.00				
Grassland - Other lowland acid grassland	Grassland	0.00	0.00	0.00				
Grassland - Other neutral grassland	Grassland	1097.12	0.00	1097.12	1097.12			
Grassland - Upland acid grassland	Grassland	0.00	0.00	0.00				
Heathland and shrub - Blackthorn scrub	Heathland and shrub	0.00	0.00	0.00				
Heathland and shrub - Bramble scrub	Heathland and shrub	0.00	0.00	0.00				
Heathland and shrub - Gorse scrub	Heathland and shrub	0.00	0.00	0.00	-0.05			
Heathland and shrub - Hawthorn scrub	Heathland and shrub	0.00	0.00	0.00	-0.03			
Heathland and shrub - Hazel scrub	Heathland and shrub	0.00	0.00	0.00				
Heathland and shrub - Mixed scrub	Heathland and shrub	-0.05	0.00	-0.05				
Lakes - Ponds (Non- Priority Habitat)	Lakes	0.00	0.00	0.00	0.00			
Lakes - Reservoirs	Lakes	0.00	0.00	0.00	0.00			
Sparsely vegetated land - Other inland rock and scree	Sparsely vegetated land	0.00	0.00	0.00	0.00			
Urban - Cemeteries and churchyards	Urban	0.00	0.00	0.00				
Urban - Biodiverse green roof	Urban	0.00	0.00	0.00	0.00			
Urban - Urban Tree	Urban	0.00	0.00	0.00				
Woodland and forest - Other Scot's Pine woodland	Woodland and forest	0.00	0.00	0.00				
Woodland and forest - Other woodland; broadleaved	Woodland and forest	0.00	0.00	0.00	0.65			
Woodland and forest - Other woodland; mixed	Woodland and forest	0.65	0.00	0.65				
Intertidal sediment - Littoral coarse sediment	Intertidal sediment	0.00	0.00	0.00				
Intertidal sediment - Littoral sand	Intertidal sediment	0.00	0.00	0.00	0.00			
Intertidal Hard Structures - Artificial hard structures with Integrated Greening of Grey Infrastructure (IGGI)	Intertidal	0.00	0.00	0.00				
		1086.11	0.00	1086.11				

Medium Distinctiveness Summary								
Medium Distinctiveness Units available to offset lower distinctiveness defecit	1097.77							
Medium Distinctiveness Broad Habitat Deficit to be offset by trading up	-11.66							
Higher distinctiveness surplus units minus Medium Distinctivenss Broad Habitat Defecit	5.93							
Cumulative surplus of units	1103.70							

Low Distinctiveness				
Habitat group	On site unit change	Off Site Unit Change	Project wide unit change	
Cropland - Cereal crops	Cropland	-1090.03	0.00	-1090.03
Cropland - Horticulture	Cropland	0.00	0.00	0.00
Cropland - Intensive orchards	Cropland	0.00	0.00	0.00
Cropland - Non-cereal crops	Cropland	0.00	0.00	0.00
Cropland - Temporary grass and clover leys	Cropland	0.00	0.00	0.00
Cropland - Cereal crops winter stubble	Cropland	0.00	0.00	0.00
Grassland - Modified grassland	Grassland	1376.25	0.00	1376.25
Grassland - Bracken	Grassland	0.00	0.00	0.00
Heathland and shrub - Rhododendron scrub	Heathland and shrub	0.00	0.00	0.00
Lakes - Ornamental lake or pond	Lakes	0.00	0.00	0.00
Sparsely vegetated land - Ruderal/Ephemeral	Sparsely vegetated land	0.00	0.00	0.00
Urban - Bioswale	Sparsely vegetated land	0.00	0.00	0.00
Urban - Allotments	Urban	0.00	0.00	0.00
Urban - Facade-bound green wall	Urban	0.00	0.00	0.00
Urban - Ground based green wall	Urban	0.00	0.00	0.00
Urban - Ground level planters	Urban	0.00	0.00	0.00
Urban - Other green roof	Urban	0.00	0.00	0.00
Urban - Intensive green roof	Urban	0.00	0.00	0.00
Urban - Introduced shrub	Urban	0.00	0.00	0.00
Urban - Rain garden	Urban	0.00	0.00	0.00
Urban - Actively worked sand pit quarry or open cast mine	Urban	0.00	0.00	0.00
Urban - Sustainable urban drainage feature	Urban	0.00	0.00	0.00
Urban - Vacant/derelict land/ bareground	Urban	-1.91	0.00	-1.91
Urban - Vegetated garden	Urban	0.00	0.00	0.00
Woodland and forest - Other coniferous woodland	Woodland and forest	0.00	0.00	0.00
Coastal saltmarsh - Artificial saltmarshes and saline reedbeds	Coastal saltmarsh	0.00	0.00	0.00
Intertidal sediment - Artificial littoral coarse sediment	Intertidal sediment	0.00	0.00	0.00
Intertidal sediment - Artificial littoral mud	Intertidal sediment	0.00	0.00	0.00
Intertidal sediment - Artificial littoral sand	Intertidal sediment	0.00	0.00	0.00
Intertidal sediment - Artificial littoral muddy sand	Intertidal sediment	0.00	0.00	0.00
Intertidal sediment - Artificial littoral mixed sediments	Intertidal sediment	0.00	0.00	0.00
Intertidal sediment - Artificial littoral seagrass	Intertidal sediment	0.00	0.00	0.00
Intertidal sediment - Artificial littoral biogenic reefs	Intertidal sediment	0.00	0.00	0.00
Intertidal Hard Structures - Artificial hard structures	Intertidal	0.00	0.00	0.00
Intertidal Hard Structures - Artificial features of hard structures	Intertidal	0.00	0.00	0.00
Heathland and shrub - Sea buckthorn scrub (other)	Heathland and shrub	0.00	0.00	0.00
		284.31		284.31

Low Distinctiveness Summary

Low Distinctiveness Net Change in Units 284.31

Cumulative surplus of units 1388.00

Condense / Show Columns	Condense / Show Rows											
Main Menu	Instructions Habitats and areas		istinctiveness Condition	Strategic signi	1	Stratogia	Suggested action to address habitat losses Ecological baseline Total habitat		etention category biodiversity value	Be comp	Densation	omments
Ref Broad Habitat 1 Cropland	Habitat Type Arable field margins game bird mix	(nectares)	Ctiveness Score Condition Score Gedium 4 Condition 1	Strategic significance Area/compensation not in local strategy/ no		Strategic Significance multiplier	Same broad habitat or a higher distinctiveness habitat required 14.80	Area Area enhanced	Baseline units units retained enhanced 3.20 0.00 Area habitat lost	Units lost unacc	reed for ceptable Assessor comments osses	Reviewer comments
2 Cropland	Cereal crops	776.0621 I	Low 2 Condition Assessment N/A 1	local strategy Area/compensation not in local strategy/ no local strategy Area/compensation not in local strategy/ no	Significance	1	(≥) Same distinctiveness or better habitat required ≥ Same distinctiveness or better	231.0492 0	462.10 0.00 545.01	1090.03		
3 Grassland 4 Grassland	Modified grassland Modified grassland	16.2275 I	LOW Z MODELATE Z	local strategy Area/compensation not in local strategy/ no local strategy	Significance	1	habitat required ≥ Same distinctiveness or better habitat required ≥ Came distinctiveness or hetter	10.835 0 0 16.2275	43.34 0.00 0.41 0.00 64.91 0.00	0.00		
6 Grassland6 Grassland	Modified grassland Modified grassland	0.0674 I	Low2Moderate2Low2Moderate2	Formally identified in local strategy Formally identified in local strategy Area/compensation not in local strategy/ no	significance High strategic significance	1.15	habitat required ≥ Same distinctiveness or better habitat required ≥ Same distinctiveness or better	0.0691 0 0.0674	0.32 0.00 0.00 0.00 0.31 0.00	0.00		
7 Grassland 8 Grassland	Modified grassland Modified grassland		Low 2 Poor 1 Low 2 Poor 1	local strategy Area/compensation not in local strategy/ no local strategy	Significance Low Strategic Significance	1	Same distinctiveness or better habitat required ≥ Same distinctiveness or better habitat required ≥ 0.84	1.4485 0 0 0.4214	2.90 0.00 0.00 0.00 0.84 0.00	0.01		
9 Grassland 10 Grassland	Modified grassland Other neutral grassland		Low 2 Poor 1 Iedium 4 Good 3	Area/compensation not in local strategy/ no local strategy Area/compensation not in local strategy/ no local strategy	Significance	1	Same distinctiveness or better habitat required ≥ Same broad habitat or a higher distinctiveness habitat required 145.23	0 0.4775	0.00 0.96 0.00 128.73 0.00 1.37	0.00		
11 Grassland	Other neutral grassland	0.2845 Me	Iedium 4 Good 3	Formally identified in local strategy	High strategic significance	1.15	(≥) Same broad habitat or a higher distinctiveness habitat required (≥) 3.93	0.2845 0	3.93 0.00 0.00	0.00		
12 Grassland	Other neutral grassland		Condition 4 Moderate 2	Area/compensation not in local strategy/ no local strategy Area/compensation not in local strategy/ no	Significance	1	Same broad habitat or a higher distinctiveness habitat required (≥) Same broad habitat or a higher		32.25 0.00 0.00	0.00		
13 Heathland and shrub14 Heathland and shrub	Bramble scrub Mixed scrub		Iedium 4 Assessment N/A 1 Iedium 4 Good 3	local strategy Area/compensation not in local strategy/ no	Significance	1	distinctiveness habitat required 0.22 (≥) Same broad habitat or a higher distinctiveness habitat required 34.19	0.054 0 2.8449 0	0.22 0.00 0.00 34.14 0.00 0.00	0.00		
15 Lakes	Ponds (Priority Habitat)		High 6 Moderate 2	local strategy Area/compensation not in local strategy/ no local strategy Area/compensation not in local strategy/ no	Low Strategic Significance	1	(≥) Same habitat required = 0.20	0.0166 0	0.20 0.00 0.00 0.00 0.00 0.01	0.00		
16 Urban 17 Urban	Developed land; sealed surface Vacant/derelict land/ bareground	2.0039 I	100 2 Noderate 2	local strategy Area/compensation not in local strategy/ no local strategy Area/compensation not in local strategy/ no	Significance Low Strategic Significance	1	Compensation Not Required 0.00 Same distinctiveness or better habitat required ≥ 8.02 Same distinctiveness or better 0.78	0.0963 0 1.5656 0	6.26 0.00 0.44	0.00		
18 Urban19 Woodland and forest	Vacant/derelict land/ bareground Lowland mixed deciduous woodland	1.0267 H	Tilgii 0 Moderate 2	local strategy Area/compensation not in local strategy/ no local strategy Area/compensation not in local strategy/ no	Significance Low Strategic	1	habitat required ≥ Same habitat required = 12.32	0.309 0 1.0267 0	0.62 0.00 0.08 12.32 0.00 0.00	0.16		
20 Woodland and forest21 Woodland and forest	Other coniferous woodland Other woodland; broadleaved		Low2Moderate2Iedium4Moderate2	local strategy Area/compensation not in local strategy/ no local strategy	Significance	1	Same broad habitat or a higher distinctiveness habitat required 3.04 (≥)	0.0759 0	0.30 0.00 3.04 0.00 0.00 0.00	0.00		
22 Woodland and forest	Other woodland; broadleaved	0.0087 Me	Iedium 4 Moderate 2	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same broad habitat or a higher distinctiveness habitat required (≥)	0.0087	0.07 0.00 0.00	0.00		
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27 28 29 30												
31 32 33 34												
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440	Total habitat are	ea 833.05					1922.69		733.93 67.02 550.23	1121.75		
								Total area lost (exc	luding area of Urban Green walls) 550.23			

Total area lost (excluding area of Urban trees and Green walls) 550.23


A-1 Site Habitat Baseline

A-2 Site Condense / Show Columns Main Menu	Habitat Creation Condense / Show Rows Instructions								Note; Habitat selected has Non stand	s a time to target condition greater tha dard agreement may be required.	n 30 years.			
Dung d Habitat	Decorate de la	Area	Distinc	tiveness	Condition		ificance Strategic		relopment/ post intervention habitat	Temporal multiplier	Final time to Final time to	Difficulty multiplier Standard	s Habitat Final Difficulty	Comments
Broad Habitat	Proposed habitat				Condition Score	Strategic significance Area/compensation not in local strategy/ no			Habitat created in advance/years starting habitat creation/years				Final Difficulty units delivered creation applied	Assessor comments Reviewer comments
Grassland Grassland	Modified grassland Other neutral grassland	416.1412 118.9717		2	Moderate Good	local strategy Area/compensation not in local strategy/ no	Significance	10	0 0	Standard time to target condition applied Standard time to target condition applied	4 0.867 10 0.700	Low Standard difficulty applied Low Standard difficulty applied	Low 1 1443.48 Low 1 999.77	
Urban	Developed land; sealed surface	11.1329		0	N/A - Other	local strategy Area/compensation not in local strategy/ no		0	0 0	Standard time to target condition applied	0 1.000	Low Standard difficulty applied	Medium 0.67 0.00	
Woodland and forest	Lowland mixed deciduous woodland	0.0195	High		Moderate	local strategy Area/compensation not in local strategy/ no local strategy		30+	0 0	Standard time to target condition applied	30+ 0.320	High Standard difficulty applied	High 0.33 0.02	
Woodland and forest	Other woodland; mixed	0.2374	Medium	4	Moderate	Area/compensation not in local strategy/ no local strategy		30	0 0	Standard time to target condition applied	30 0.343	Low Standard difficulty applied	Low 1 0.65	
Woodland and forest	Wet woodland	3.7273	High	6	Moderate	Area/compensation not in local strategy/ no local strategy	Low Strategic 1 Significance	15	0 0	Standard time to target condition applied	15 0.586	Medium Standard difficulty applied	Medium 0.67 17.56	
	Total habitat area	550.23											Total Units 2461.48	
Sit	te Area (Excluding area of Urban trees and Green wa	550.23	_											

dense / Show Columns Condense / Sho Main Menu Instruction		pitats			Dron and Habitat (Dron recordated but you be executed by	Change in distinctiveness and condition		Post development/ post intervention habitats Strategic significance		Tempora	risk multiplier		Difficulty risk multipliers		Comments
Baseline habitat Grassland - Modified grassland Grassland - Modified grassland	Total habitat area (hectares) Baseline distinctiveness band band 2 Moderate Condition category Low 2 Moderate	Raseline strategic	Baseline strategic significance score 1 64.91 1.15 0.31	Same distinctiveness or better habitat required ≥ Same distinctiveness or better habitat required ≥ Same distinctiveness or better habitat required ≥ Same distinctiveness or better habitat	Proposed Habitat (Pre-populated but can be overridden) Proposed Broad Habitat Proposed habitat Grassland Other neutral grassland Grassland Other neutral grassland	Distinctiveness change Condition change Low - Medium Lower Distinctiveness Habitat - Modera Low - Medium Lower Distinctiveness Habitat - Modera	ate 0.0674 Medium 4 Moderate		position target condition/year gic l 10 gic ce gic l 10	Habitat enhanced in advance/years O O O O	Standard or adjusted time to target condition Standard time to target condition applied Standard time to target condition applied 10 Standard time to target condition applied	241 21	Standard difficulty of enhancement Low Standard difficulty applied Low Standard difficulty applied Low Standard difficulty applied	fficulty multiplier applied Difficulty multiplier applied Dw 1 110.37 Dw 1 0.53	Assessor comments Reviewer
Grassland - Modified grassland Grassland - Modified grassland	0.4214 Low 2 Poor 0.4775 Low 2 Poor	Significance Low Strategic Significance	1 0.84	required ≥ Same distinctiveness or better habitat required ≥	Grassland Modified grassland Grassland Other neutral grassland	Low - Low Poor - Moderate Low - Medium Lower Distinctiveness Habitat - Moderate	0.4214 Low 2 Moderate 1. Medium 4 Moderate	strategy Significan Area/compensation not in local strategy/ no local Significan Significan Significan	ce 1 10 gic 10 ce 10	0 0	Standard time to target condition applied 10 Standard time to target condition applied 10	0.700	the state of the s	1 1.43 pw 1 2.96	
							17.19							115.29	

Main Menu	Instructions UK Habitats - existing habitats		Habitat distinctiver	iess H	Habitat condition	Strategic sign	ficance		Suggested action	Ecological		Retention	category biodiversity	value		Comments	
ne Hedge number	Hedgerow type Native Hedgerow with trees	Length (km)	Distinctiveness S Medium	Score C		e Strategic significance Area/compensation not in local strategy/ no local strategy	Significance	1	Suggested action to address habitat losses Like for like or better	14.46	Length retained		Units Units retained enhanced 14.46 0.00				Reviewer comments
	Native Hedgerow Native Species Rich Hedgerow with trees Native Species Rich Hedgerow	27.376 3.904 11.547	Low High Medium	6 N	Moderate 2 Moderate 2 Moderate 2	Area/compensation not in local strategy/ no local strategy Area/compensation not in local strategy/ no local strategy Area/compensation not in local strategy/ no	Significance Low Strategic Significance Low Strategic		Same distinctiveness band or better Like for like or better Like for like or better	46.85	27.376 3.904 11.472	0 0	109.50 0.00 46.85 0.00 91.78 0.00	0.00	0.00		
	Native Species Rich Hedgerow Native Species Rich Hedgerow	0.092	Medium		Moderate 2	local strategy Location ecologically desirable but not in local strategy	Significance Medium strategic significance	1.1	Like for like or better		0.092	0	0.81 0.00		1 3111 lost ili soullierii part oi lile site		
										004.07			262.40	0.07	0.60		
		44.73								264.00	44.65	0.00	263.40 0.00	0.07	0.60		

B-2 Site Hed Condense / Show Columns Main Menu	ge Creation Condense / Show Rows Instructions										
nseline hedge number 1 2 New hedge number New hedge number	Proposed habitats Habitat type Line of Trees 7.576 tive Species Rich Hedgerow 13.973	Low 2	Habitat condi Condition So Moderate Moderate	Strategic position multiplier Low Strategic position multiplier	Standard Time to target condition/years 20 Belay in starting habitat created in advance/years 0 0 0	Standard or adjusted time to target condition Standard time to target condition Standard time to target condition applied 5 0.837	Standard difficulty of creation Standard difficulty of creation Standard difficulty applied Low Standard difficulty applied Low Standard difficulty applied	Final I difficulty of creation	Difficulty nultiplier	Hedge units delivered 14.86 93.54	Assessor comments Reviewer comments
3 4 5 6 7 8 9 10 11											
13 14 15 16 17 18											
1 2 3 4 5 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7											
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40 41 42 43 44 45 46 47											
48	21.55									108.40	



Condense/	C-1 Site River Baseline Show Columns Condense/Show Rows n Menu Instructions Existing river type		Habitat distinctivene	ngg Hoh	oitat conditio	on.	Strategic sign	nifigango		Watercourse en	groughmont	Riparian enc	roaghmont	Ecological baseline		Potentiar	ı category bic	divorgity vol	10			omments	
Baseline ref		Length (km)	Distinctiveness Sco			core	Strategic significance	Strategic significance	Strategic significance multiplier			Extent of encroachment	Suggested	baseline Total river units	Length retained	Т			ength Lost Units	s Lost	Assessor Comments		wer comments
1 2 3 4	Ditches Priority Habitat Other Rivers and Streams	12.05 1.391 1.463	V.High	Poor Moder Moder	rate		Low potential/action not identified in any plan Low potential/action not identified in any plan Low potential/action not identified in any plan any plan	Low Strategic Significance Low Strategic	1	No Encroachment No Encroachment No Encroachment	1 1 1	No Encroachment No Encroachment No Encroachment	1 Restore 1 Restore 1 Restore	48.20 22.26 17.56	12.05 1.391 1.463		48.20 22.26 17.56	0.00	0.00 0.0 0.00 0.0 0.00 0.0	.00			
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235 236 237 238 239																							
238 239 240 241 242 243 244 245 246 247 248																							
246 247 248		14.90												88.01	14.90	0.00	88.01	0.00	0.00 0.0	.00			

