

Ref: GR/BU496 Date: 03 February 2020 Your Ref: 19/01818/OUT

dynamic development solutions TM

David Buckley Senior Planning Officer Planning Service Milton Keynes Council Civic Centre 1 Saxon Gate Milton Keynes MK9 3EJ

Dear Mr. Buckley,

Re: 19/01818/OUT South Caldecotte - Committee Meeting 06/02/20, Ecological Issues

We write to you having reviewed your report to the Development Control Committee meeting on 06/02/20, in order to respond to this and set out our position on matters of Ecology.

We note that you have recommended that the issue of ecology forms a reason for refusal within your committee report. Para 7.96 of the committee report sets out the Biodiversity Officer's objection to the proposals.

We strongly disagree with the approach taken in the report and would highlight the following as reasons why the impact on biodiversity should be considered acceptable:

- Whilst the proposals do result in the partial loss of habitats on site, new habitats will be created as part of the development.
- There is no evidence that the development will result in harm to protected species.
- The proposals would comply with the mitigation hierarchy set out within para 175 of the NPPF, which requires that the decision maker consider whether biodiversity harm can be avoided, adequately mitigated or as a last resort compensated for, before it takes the step of refusing planning permission.
- The development would result in a demonstrable net gain a Biodiversity Impact Assessment prepared by Aspect Ecology is attached in Appendix B.

The Lowland Meadow habitat, is a poor example of its type (which is not disputed by the Council), and in the absence of suitable management its quality, and therefore value, is expected to decline; potentially to the point that it is no longer recognised as a Priority Habitat.

The development proposals represent the opportunity to create species-rich grassland that is managed for biodiversity, whilst other habitats are proposed within the site, such as the new Green Link Corridor, to reduce overall impact on biodiversity. This would accord with the principles within the National Planning Policy Framework, and policies NE2 and NE3 of Plan: MK all of which make allowance for the mitigation and compensation of impacts on biodiversity. In this way, the proposals would comply with local and national biodiversity policies.

The submission of the BIA demonstrating a biodiversity net gain in line with policy NE3 and para 175 of the NPPF addresses any concerns raised in para 7.99 of the committee report. Furthermore, through the biodiversity offsetting scheme via Environment Bank a minimum 33% increase (above that lost from the site) in Lowland Meadow creation/restoration could be achieved, with a 30-year





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management and monitoring plan, contributing to the Buckinghamshire and Milton Keynes LBAP for this habitat type.

Para 7.101 of your report ignores that there would be additional habitats created as a result of the scheme, as outlined above. The loss of some habitats on site should be weighed within the planning balance.

The Council Ecologist has requested a number of additional documents be submitted, namely the Biodiversity Enhancement Scheme and a Habitat Management Plan, and we confirm that we are happy for these to be conditioned in any outline approval and to provide these documents, at reserved matters stage as is standard.

Para 175 of the NPPF sets out that when considering planning applications planning permission should be refused if significant harm to biodiversity resulting from a development cannot be avoided (through locating on an alternative site with less harmful impacts), adequately mitigated, or, as a last resort, compensated for. The proposals would fully comply with this hierarchy, as discussed above.

To summarise, the proposals entirely comply with Policy NE3 with regard to biodiversity and para 175 of the Framework.

Finally, we request that Members of the Development Control Committee defer the item to allow continued dialogue regarding outstanding items to enable them to be resolved. The planning application is currently well within statutory timescales which can be extended to allow for resolution of the matters discussed in this letter. The deferral of the item until the meeting in April would allow for officers to work with us to resolve the items outlined above.

We look forward to hearing from you.

Yours sincerely,

Graham Robinson MRTPI Associate Director

Attached: Appendix B – Biodiversity Impact Assessment, Aspect Ecology



South Caldecotte, Milton Keynes (ECO5263)

Biodiversity Impact Assessment

Date: 23rd January 2020

1. Introduction

- 1.1. A planning application is being prepared for new strategic employment development, including nine warehouses, with offices, parking and associated access and infrastructure at South Caldecotte, Milton Keynes, hereafter referred to as 'the site'.
- 1.2. Aspect Ecology has been commissioned by Hampton Brook to undertake a Biodiversity Impact Assessment (BIA) to inform the application. The DEFRA 2.0 Biodiversity Impact Calculation Tool has been used to conduct the BIA in accordance with the supporting information for Policy NE3 of the Milton Keynes Council Plan:MK 2016-2031 which states the assessment can be undertaken utilising the Defra metric. This briefing note appends the Defra BIA Calculator (see Appendix 5263/1) and provides a summary of the results and justifies the choice of habitat definitions, distinctiveness, target habitat condition and temporal factors where appropriate.

2. Biodiversity Impact Assessment

- 2.1. The information obtained from the Phase 1 habitat survey (pre-development as set out within the Ecological Appraisal produced in June 2019 by Aspect Ecology; see Appendix 5263/2) and the Illustrative Landscape Strategy Plan (post-development; see Appendix 5263/3) were inputted into the DEFRA 2.0 Biodiversity Impact Assessment Calculator Tool in November 2019. This enables the change in 'biodiversity units' for both 'Habitat units' and 'Hedgerow units' and 'River units' pre and post-development to be measured.
- 2.2. This section references, justifies and discusses the habitat categories and their condition chosen from the drop-down menus of the BIA Calculator (see Appendix 5263/1).

Existing Site Habitats (Pre-development)

- 2.3. 'Cropland Cereal Crops' condition 'N/A Agricultural'. The arable land within the site has been attributed to this category as the survey work undertaken by Aspect Ecology found the arable land to be seeded with cereal crops at the time of survey. For the purposes of the BIA calculations, the condition of 'cropland cereal crops' is not required and a condition score of 1 is automatically applied.
- 2.4. **'Urban Amenity Grassland'** condition 'poor'. The amenity grassland within the site comprises a limited diversity of common and widespread species and is under regular management to maintain a short sward height. Accordingly, a condition of 'poor' was given to the amenity grassland within the site.
- 2.5. **'Grassland Other Neutral Grassland'** condition 'moderate'. The semi-improved and rough grassland within the site has been included under this category. These areas of grassland are moderately species-rich and contain a number of lowland meadow indicator species, albeit



these are localised and not sufficiently abundant for the grassland to qualify as a Priority Habitat. Accordingly, a 'moderate' condition was assigned to this category.

- 2.6. **'Grassland Other Neutral Grassland'** condition 'moderate'. The site contains the Priority Habitat 'Lowland Meadow', which is not a prime example of this habitat and given its affinity with common mesotrophic (MG6) grassland, is considered to be in 'poor' condition. However, selecting this category within the metric prevents the calculator from producing a biodiversity impact score. Through consultation with the Environment Bank, the decision was made to account for the presence of Lowland Meadow through the use of category 'Grassland: Other Neutral Grassland'. To ensure the multiplier score remained the same for the 'Other Neutral Grassland' as would be generated for 'Lowland Meadow', the condition of the habitat was increased to 'moderate'.
- 2.7. **'Grassland Modified Grassland'** condition 'poor'. The improved grassland within the site is dominated by a low diversity of common and widespread species, typically associated with improved grassland, such as Perennial Rye-grass. The grassland is grazed regularly and enriched through animal droppings and is therefore considered to be in a 'poor' condition.
- 2.8. **'Cropland Traditional Orchards'** condition 'moderate'. The orchard within the site may potentially qualify as the Priority Habitat 'Traditional Orchard' as it is not intensively managed and, as such, has been included in this category in the metric. However, the orchard within the site is not a good example of a Traditional Orchard, with the trees being regularly managed such that little deadwood is allowed to accumulate and the grassland regularly mown as part of the garden setting in which the orchard is located. Accordingly, the condition of the orchard is considered to be 'moderate'.
- 2.9. **'Woodland and Forest Other Woodland; Broadleaved'** condition 'moderate'. The plantation woodland and the broadleaved woodland within the site have been included under this category. The woodlands meet a number of the woodland condition assessment criteria within the Biodiversity Metric 2.0 Technical Supplement, but not sufficiently to qualify as 'good' condition.
- 2.10. **'Heathland and Shrub Mixed Scrub'** condition 'moderate'. The dense and scattered scrub at the site comprises a limited range of species that are common and widespread in the local and national context. This habitat does not meet the 'high environmental value' categorisation defined in the Farm Environment Plan (FEP) Manual. Overall, the scrub within the site is considered to be in 'moderate' condition.
- 2.11. **'Urban Introduced Shrub'** condition 'poor'. The amenity planting within the site comprises a range of common and non-native species managed for their amenity rather than biodiversity value. For the purposes of the BIA calculations, the condition of 'urban introduced shrub' is not required and a condition score of 1 is automatically applied.
- 2.12. **'Sparsely vegetated land Ruderal / Ephemeral'** condition 'poor'. The tall ruderal within the site comprises a limited range of species that are common and widespread in the local area and the national context. The tall ruderal does not form an important ecological feature and overall is considered to be in 'poor' condition.
- 2.13. **'Lakes Ponds (Non-Priority Habitat)'** condition 'poor'. The ponds within the site are either stocked with large numbers of fish, are relatively recently cleared to contain water, or are highly ephemeral in nature. Accordingly, the ponds within the site are not considered to form important ecological features and fail to meet a number of the pond condition assessment



criteria within the Biodiversity Metric 2.0 Technical Supplement, such that a condition score of 'poor' has been allocated.

2.14. **'Urban – Developed land; sealed surface'** – condition 'N/A-other'. The remainder of the site is comprised of agricultural buildings and hardstanding which are largely devoid of vegetation and do not form an important ecological feature. For the purposes of the BIA calculations, the condition of developed land is not required and a condition score of 0 is automatically applied.

Habitat Creation (Post-development)

- 2.15. **'Grassland Other Neutral Grassland'** condition 'good'. This habitat includes semi-improved grassland which will be created along the northern boundary of the site and species-rich grassland which will be created along the western site boundary. The aim will be to manage these grasslands based on ecological principles, which should enable the grasslands to reach 'good' condition within 15 years.
- 2.16. 'Urban Amenity Grassland' condition 'poor'. This includes the grassland in close proximity to the built development. The amenity grassland is likely to comprise a seed mix that is tolerant of frequent mowing and is unlikely to be managed for biodiversity. Accordingly, a condition score of 'poor' has been allocated for this habitat type.
- 2.17. **'Woodland and Forest Other Woodland: Broadleaved** condition 'moderate'. Native woodland planting is to be incorporated into the scheme, planted at the boundaries of the site. The moderate condition is based on the woodland planting being native and diverse and the habitat receiving on-going management as part of the landscape strategy. Subject to this management, it is considered that the woodland should achieve 'moderate' condition within 30 years.
- 2.18. **'Urban Introduced Shrub'** condition 'poor'. This will include all amenity planting in proximity to the built development. For the purposes of the BIA calculations, the condition of introduced shrub is not required and a condition score of 1 is automatically applied.
- 2.19. **'Urban Sustainable urban drainage feature'** condition 'good'. This habitat represents the SuDS features to be created at the north of the site. Assuming all of the SuDS are seeded with a diverse native wet grassland seed mixture and management incorporates ecological principles for the benefit of biodiversity, it is considered achievable for this habitat to be of 'good' condition in five years.
- 2.20. **'Urban Developed Land; sealed surface**' condition 'N/A other'. This habitat includes all new buildings, roads, parking and tarmac footpaths and, as such, is not assigned a condition under the DEFRA 2.0 metric.

Habitat Biodiversity Impact Score

2.21. The BIA calculator computes a Net Project Biodiversity Units (Habitats) score of <u>-156.34</u>, a biodiversity loss of <u>74.52%</u>.

3. Hedgerow Impact Assessment

Existing Hedgerows (Pre-development)

3.1. **'Line of Trees'** – condition 'moderate'. A number of tree lines are present within the site which contain a range of native species and are fenced from livestock, such that they are outgrown in



nature. The tree lines achieve a condition score of 'moderate' utilising the condition assessment for a line of trees, as provided in the Biodiversity Metric 2.0 Technical Supplement.

- 3.2. **'Native Species Rich Hedgerow'** condition 'moderate'. This habitat refers to the species-rich hedgerows within the site which are well connected and generally outgrown in nature. Accordingly, the species-rich hedgerows are considered to be in 'moderate' condition.
- 3.3. **'Native Hedgerow'** condition 'moderate'. The remainder of the hedgerows within the site are species-poor; however, they are well established and provide good connectivity within the site. As such, the species-poor hedgerows are considered to be in 'moderate' condition.

New Hedgerows (Post-development)

- 3.4. **'Native Species Rich Hedgerow'** condition 'good'. This includes all new hedgerows within the scheme which will be planted with a diverse range of native tree/shrub species to ensure that the hedgerows are species-rich. The hedgerows will be managed in perpetuity of the scheme to ensure their value for biodiversity is maximised and it is considered that a condition of 'good' can be achieved for the hedgerows within 10 years.
- 3.5. **'Line of Trees'** condition 'good'. A number of tree lines are proposed within the development scheme. These will include native species and will be managed for biodiversity in perpetuity of the scheme. It is anticipated that a condition of 'good' can be achieved for the tree lines within 30 years.

Hedgerow Biodiversity Impact Score

3.6. The BIA calculator computes a Net Project Biodiversity Units (Hedgerows) Score for the proposals of <u>-3.73 units</u>, a biodiversity loss of <u>17.55%</u>.

4. River Impact Assessment

Existing River (Pre-development)

4.1. 'Rivers & Streams (Other) – condition 'moderate'. A small stream passes across the site from east to west. The stream is semi-natural, contains aquatic and marginal macrophytes and has well vegetated banks and bank tops. However, the stream is silted and heavily shaded in places, such that very little aquatic vegetation is present. In addition, littering is present within the stream, particularly at the eastern end. Overall, the stream is likely to function as a wildlife corridor in the local context and has been categorised as being in 'moderate' condition.

New River (Post-development)

4.2. 'Rivers & Steams (Other) – condition 'moderate'. The stream is to be diverted as part of the proposals and will achieve a greater length than the existing stream. Over time, the diverted section of the stream will become colonised with marginal and aquatic vegetation established through seeding and natural colonisation. The stream will be managed in perpetuity of the scheme to ensure that the stream does not become over-shaded and to remove any litter that may enter the stream. Furthermore, the stream will be buffered by wildflower grassland and native shrub planting which will also be managed long-term. Subject to management of the stream for the benefit of biodiversity, over time (~5 years) it is considered achievable for the stream to reach 'moderate' condition.



River Biodiversity Impact Score

4.3. The BIA calculator computes a Net Project Biodiversity Units (Rivers) score for the proposals of -3.75 units, a biodiversity loss of 65.96%.

5. Summary & Conclusion

5.1. In order to inform the planning application, a Biodiversity Impact Assessment calculation has been carried out. The BIA calculates that a net loss of -156.34 habitat units, -3.73 hedgerow units and -3.75 river units is likely to occur under the proposed development. This represents a biodiversity loss of 74.52% for habitat units, 17.55% for hedgerow units and 65.96% for river units.

6. Consultation with the Environment Bank

- 6.1. Following the completion of the Defra 2.0 Metric, the Environment Bank was approached to provide a quotation for a biodiversity compensation scheme to offset the biodiversity impact of the proposals, based on the results of the metric calculation. The Environment Bank would devise a scheme achieving a total of 177.29 biodiversity units which would <u>secure a minimum 10% biodiversity net gain</u> for the proposals. The cost of these 177.29 biodiversity units is £1,741,000 +VAT and this sum includes:
 - A biodiversity offset scheme adhering to local standards of delivery;
 - Liaison with local planning authority on offset approval;
 - Ecological assessment of the offset site;
 - Negotiations with the offset landowner;
 - Preparation of legal agreements for long-term offset delivery;
 - A 30 year costed management and monitoring plan; and
 - Monitoring and oversight of the offset site over 30 years with reporting to the LPA.
- 6.2. The biodiversity compensation scheme proposes to target the creation/restoration of grassland to Lowland Meadow within the Milton Keynes authority, in combination with the enhancement of a wider mosaic of habitats. The Environment Bank has confirmed a minimum threshold for the extent of Lowland Meadow creation/restoration can be set, in order to achieve a minimum 33% increase over the extent of Lowland Meadow lost from the site. This would contribute to the local BAP target to increase Lowland Meadow in Buckinghamshire and Milton Keynes by 33%¹.



Appendices:

Appendix 5263/1 – Completed BIA Calculator

Appendix 5263/2 – Plan 5263/ECO3 – Habitats and Ecological Features

Appendix 5263/3 – Illustrative Landscape Strategy Plan

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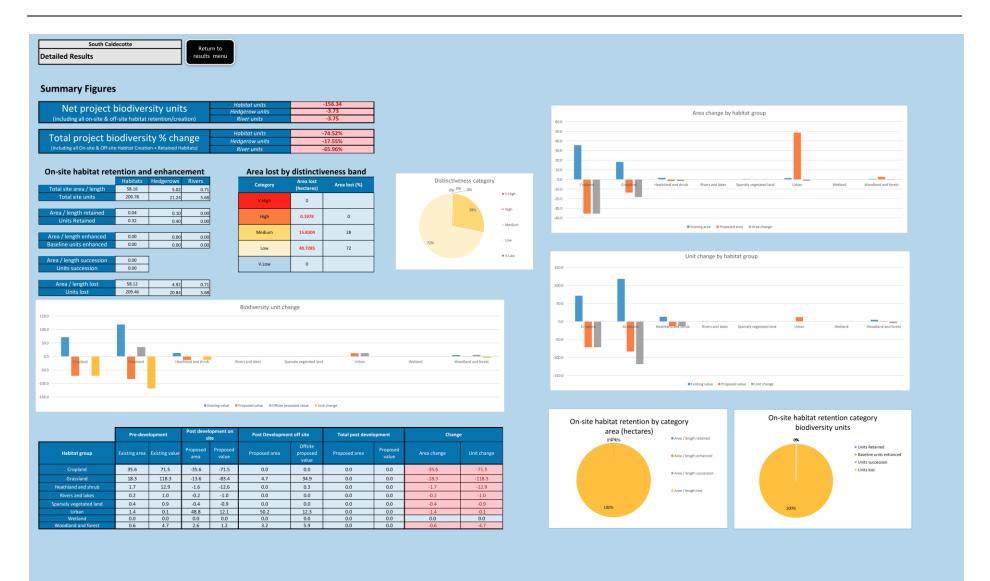
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Appendix 5263/1:

Completed BIA Calculator







	uth Caldecotte Site Habitat Base Condense / Show Column Main Menu																							
		Habitats and areas		Habi		Habitat	condition		Ecological connect	tivity	Strategic	significance		Suggested action to	Ecologic			Retent	ion categ	ory bio	diversity v	rersity value		
Re f	Broad Habitat	Habitat type	Area (hectare <)	distincti Distinctive ness	Score	Conditi on	Score	Ecologic al connectir	Connectivity	Connectivity multiplier	Strategic significance	Strategic significance	Strategic position multiplier	address habitat losses	al Total habitat units		Area enhanc ed	Area success	Baselin e units retaine	Baseli ne units	Baseline units successi	aits Area lost Units lost		
1	Cropland	Cropland - Cereal crops	35.5711	Low	2	N/A - Agricultur al	1	N/A	Assessment not appropriate	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same distinctiveness or better habitat required	71.14				0.00	0.00	0.00	35.57	71.14	
2	Urban	Urban - Amenity grassland	0.0582	Low	2	Poor	1	Low	Unconnected habitat	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same distinctiveness or better habitat required	0.12				0.00	0.00	0.00	0.06	0.12	
3	Grassland	Grassland - Other neutral grassland	8.8335	Medium	4	Moderate	2	Low	Unconnected habitat	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same broad habitat or a higher distinctiveness habitat required	70.67				0.00	0.00	0.00	8.83	70.67	
4	Grassland	Grassland - Other neutral grassland	4.7352	Medium	4	Moderate	2	Low	Unconnected habitat	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same broad habitat or a higher distinctiveness habitat required	38.36				0.00	0.00	0.00	4.80	38.36	
5	Grassland	Grassland - Modified grassland	4.642	Low	2	Poor	1	Low	Unconnected habitat	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same distinctiveness or better habitat required	9.28				0.00	0.00	0.00	4.64	9.28	
6	Cropland	Cropland - Traditional orchards	0.0293	High	6	Moderate	2	Low	Unconnected habitat	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same habitat required	0.35				0.00	0.00	0.00	0.03	0.35	
7	Woodland and forest	Woodland and forest - Other woodland; broadleaved	0.302	Medium	4	Moderate	2	Low	Unconnected habitat	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same broad habitat or a higher distinctiveness habitat required	2.42				0.00	0.00	0.00	0.30	2.42	
8	Woodland and forest	Woodland and forest - Other woodland; broadleaved	0.2897	Medium	4	Moderate	2	Low	Unconnected habitat	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same broad habitat or a higher distinctiveness habitat required	2.32				0.00	0.00	0.00	0.29	2.32	
9	Heathland and shrub	Heathland and shrub - Mixed scrub	1.1522	Medium	4	Moderate	2	Low	Unconnected habitat	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same broad habitat or a higher distinctiveness habitat required	9.22	0.04			0.32	0.00	0.00	1.11	8.90	
10	Heathland and shrub	Heathland and shrub - Mixed scrub	0.4978	Medium	4	Moderate	2	Low	Unconnected habitat	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same broad habitat or a higher distinctiveness habitat required	3.98				0.00	0.00	0.00	0.50	3.98	
11	Urban	Urban - Introduced shrub	0.0123	Low	2	Poor	1	Low	Unconnected habitat	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same distinctiveness or better habitat required	0.02				0.00	0.00	0.00	0.01	0.02	
12	Sparsely regetated land	Sparsely vegetated land - Ruderal/Ephemeral	0.4449	Low	2	Poor	1	Low	Unconnected habitat	1	Area/compensation not in local strategy/ no local strategy		1	Same distinctiveness or better habitat required	0.89				0.00	0.00	0.00	0.44	0.89	
13	Lakes	Lakes - Ponds (Non- Priority Habitat)	0.1685	High	6	Poor	1	Low	Unconnected habitat	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same habitat required	1.01				0.00	0.00	0.00	0.17	1.01	
14	Urban	Urban - Developed land; sealed surface	1.3625	V.Low	0	N/A - Other	0	Low	Unconnected habitat	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Compensation Not Required	0.00				0.00	0.00	0.00	1.36	0.00	
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19		Total day and be	50.46											Table base "	000 70	0.01	0.00	0.00	0.00	0.00	0.00	50.40	000.46	
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South Caldecotte	
A-2 Site Habitat Creation	

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Instructions

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							Ecological connectivity		Strategic sign	ificance		Temporal r	nultiplier	Difficulty	multipliers	
Proposed habitat	Area (hectares)	Distinctiveness	Score	Condition	Score	Ecological connectivity	Connectivity	Connectivity multiplier	Strategic significance	Strategic significance	Strategic position multiplier	Time to target condition/years	Time to target multiplier	Difficulty of creation category	Difficulty of creation multiplier	Habitat units delivered
Grassland - Other neutral grassland	1.8255	Medium	4	Good	3	Low	Unconnected habitat	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	15	0.586	Low	1	12.84
Grassland - Other neutral grassland	2.8563	Medium	4	Good	3	Medium	Moderately connected habitat	1.1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	15	0.586	Low	1	22.09
Urban - Amenity grassland	3.6907	Low	2	Poor	1	Medium	Moderately connected habitat	1.1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	1	0.965	Low	1	7.84
Woodland and forest - Other woodland; broadleaved	3.2276	Medium	4	Moderate	2	Low	Unconnected habitat	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	30	0.343	Medium	0.67	5.94
Urban - Introduced shrub	0.9658	Low	2	Poor	1	Low	Unconnected habitat	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	1	0.965	Low	1	1.86
Urban - Sustainable urban drainage feature	0.7585	Low	2	Good	3	Low	Unconnected habitat	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	5	0.837	Medium	0.67	2.55
Urban - Developed land; sealed surface	44.7993	V.Low	0	N/A - Other	0	N/A	Assessment not appropriate	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	0	1.000	Low	1	0.00
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Totals	58.12					1		I	1		I				Total Units	53.12



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		UK Habitats – existing habitats		Habitat distinctiver		Habitat conditio		Ed	cological connectivity		Strategic sign	ificance			Ecologic	B	etention ca	itegory bi	iodiversity	y value	
Baseli ne ref	Hedge number		lengt h KM	Distinctive			Sco	Ecological connectivity	Connectivity	Connectiv ity multiplier	Strategic significance	Strategic significance	Strategic position multiplier	Suggested action to address habitat losses	Total hedgerow units	Length retained	Length enhance d			Lengt h lost	
1		Line of Trees	0.61	Low	2	Moderate	2	Low	Unconnected habitat	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same distinctiveness band or better				0	0	0.61	2.44
2		Native Species Rich Hedgerow	0.29	Medium	4	Moderate	2	Low	Unconnected habitat	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Like for like or better	2.32			0	0	0.29	2.32
3		Native Hedgerow	4.12	Low	2	Moderate	2	Low	Unconnected habitat	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same distinctiveness band or better	16.48	0.1007		0.4028	0	4.0193	16.077
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		Total Site length/KM	5.02												21.24	0.10	0.00	0.40	0.00	4.92	20.84

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			Proposed habitats		Habitat distinctiveness		Habitat	condition		Ecological connectivity		Strategic significa	ance		Temporal r	nultiplier	Difficulty of creation	
Baselin ref	e New hedg numb		Habitat type	Length km	Distinctiveness	Score	Condition	Score	Ecological connectivity	Connectivity	Connectivity multiplier	Strategic significance	Strategic significance	Strategic position multiplier	Time to target condition/years	Time to target multiplier	multiplier	Hedge units - delivered
1		Native	Species Rich Hedgerow	2.75	Medium	4	Good	3	Low	Unconnected habitat	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	10	0.700	0.67	15.48
2			Line of Trees	0.789	Low	2	Good	3	Low	Unconnected habitat	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	30	0.343	1	1.63
3																		
4																		
5		с	reation Length/KM	3.54			1		I									17.11

South Caldecotte, Milton Keynes

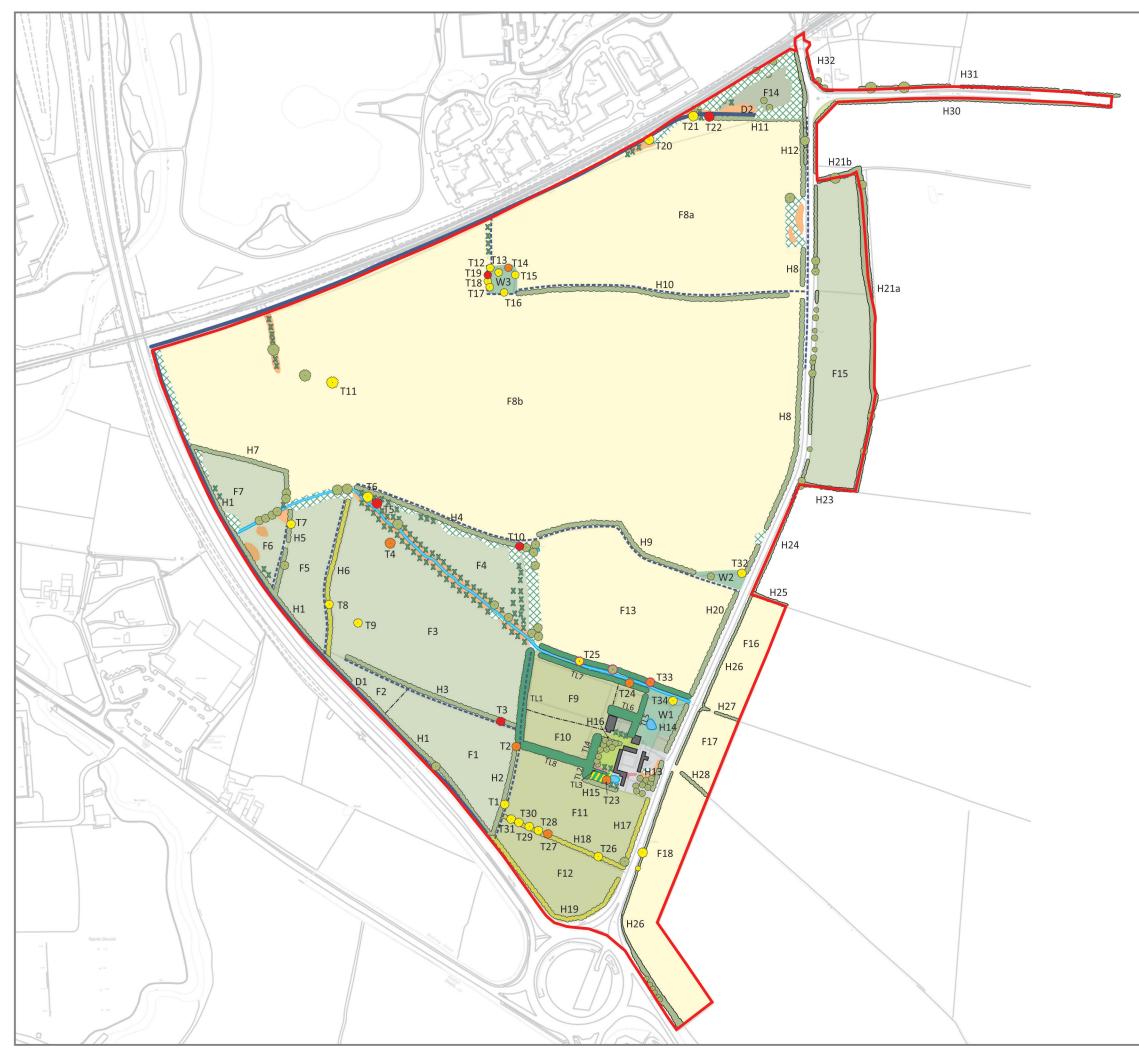


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	Main Menu Inst	tructions																		
	Existing river type			Habita	t distincti	iveness	Habitat con	dition		Strategic significan	ce			Ecological baseline		Retenti	ion category	biodiversity	y value	
Baseline	ref River type		len Ki		iveness	Score	Condition	Score	Strategic signif	icance	Strategic significance	Strategic position multiplier	Sugested action	Total river units	Length retained	Length enhanced	Units retained	Units enhanced	Length impacted	Units Lost
1	Rivers & Streams (Other)		0.	71 Med	ium	4	Fairly Poor	2 Low pote	ntial/ action not plan.	identified in any	Low Strategic Significance	1	Avoid	5.68			0	0	0.71	5.68
2																				
4																				
5	Total site length KM		0.	_									Total Site	5.68	0.00	0.00	0.00	0.00	0.71	5.68
												L		5.08	0.00					
	River Creation	ense/Sho												2.09						
C-2 Site	River Creation			nctiveness		Habitat o	ondition		Strategic signi	ficance			al multiplier	Difficulty o		Ripa	rian encroac	hment		
C-2 Site	River Creation ense/Show Columns Conde Main Menu		ins	nctiveness		Habitat o	ondition Score	Strategic sig		ficance Strategic significance			al multiplier Time to targ	Difficulty o			irian encroac		deli	r units vered
C-2 Site Conde	River Creation ense/Show Columns Conde Main Menu Proposed habitats	Instructio	ns Habitat disti		Conc		Score	Strategic sig Low potential/acti in any p	nificance	Strategic	position	Tempora Time to target	al multiplier Time to targ	Difficulty o	Difficulty of creation	Extent of e			er deli	r units
C-2 Site Conde	River Creation ense/Show Columns Conde Main Menu I Proposed habitats River type	Instructio Length km	ns Habitat disti Distinctiveness	Score	Conc	dition	Score	Low potential/ action	nificance	Strategic significance Low Strategic	position	Tempor Time to target condition/years	al multiplier Time to targ multiplier	Difficulty o creation category	f Difficulty of creation multiplier	Extent of e	ncroachmen	t Multiplie	er deli	r units vered
C-2 Site Conde	River Creation ense/Show Columns Conde Main Menu I Proposed habitats River type	Instructio Length km	ns Habitat disti Distinctiveness	Score	Conc	dition	Score	Low potential/ action	nificance	Strategic significance Low Strategic	position	Tempor Time to target condition/years	al multiplier Time to targ multiplier	Difficulty o creation category	f Difficulty of creation multiplier	Extent of e	ncroachmen	t Multiplie	er deli	r units vered



Appendix 5263/2:

Plan 5263/ECO3 – Habitats and Ecological Features



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Key:		
	Site Boundary	
	Arable	
	Amenity Grassland	
	Semi Improved Grassland	
	Improved Grassland	
	Rough Grassland	
	Orchard	
	Amenity Planting	
	Tall Ruderal Vegetation	
	Woodland	
	Dense Scrub	
×	Scattered Scrub	
	Tree	
	Tree with Low Potential to Support Roosting Bats	
	Tree with Moderate Potential to	
	Support Roosting Bats Tree with High Potential to	
	Support Roosting Bats	
	Mature Black Poplar	
	Treeline	
	Hedgerow	
	Defunct Hedgerow	
	Pond	
	Stream	
	Dry Ditch	
	Wet Ditch	
	Fence	
	Hardstanding	
	Building	
	poot	
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01295 276066	5 - info@aspect-ecology.com - www.aspect-ecolog	y.com
South	Caldecotte, Milton Keynes	PROJECT
	Habitats and Ecological Features	TITLE
	5263/ECO3	DRAWING NO.
	А	REV.
	October 2018	DATE



Appendix 5263/3:

Illustrative Landscape Strategy Plan

NATIVE TREES & STRUCTURAL PLANTING - Trees planting in groups, larger blocks and random drifts to provide varied structural edge habitats and robust landscape buffers. The native tree and structural planting will be primarily located around the site boundaries to create wide green buffers, and also internally breaking up the various plots to link the overall green infrastructure and provide a green setting that assists to integrate the built form. Native tree species will include standards, whips and transplants and will include:

Acer campestre

Field Maple Common Alder Downy Birch Hornbeam Hawthorn Crab Apple Wild Cherry Bird Cherry Blackthorn Pendunculate Oak Goat Willow Rowan





FEATURE INTERNAL & ROADSIDE TREE PLANTING -Feature tree and ornamental planting along the primary and secondary roads throughout the development will aim to tie in with species used within South Caldecotte to the north, whilst also creating a high quality enviormment to the development. A variation in species for each plot, zone or type of area will help to provide variation and separate character areas within the development. The use of a degree of semi-mature tree planting will provide 3-dimensional depth and instant impact to the green infrastructure. Feature ornamental species will include:

Acer campestre 'Streetwise' Betula pendula jacquemontii Carpinus betulus 'Frans Fontaine' Liquidambar styraciflua Prunus avium 'Plena' Prunus x subhirtella 'Autumnalis' Sorbus aria 'Lutescens' Tilia cordata 'Greenspire'



NATIVE HEDGEROWS & WOODLAND EDGE - Planting using a mix of native hedgerow and shrub species to increase the diversity of hedgerows and woodland edges and provide foraging opportunities for local wildlife. Hedgerow flowering/fruiting species will include:

Cornus sanguinea

Crataegus monogyna

Corylus avellana

llex aquifolium

Prunus spinosa

Sambucus nigra

Viburnum opulus

Rosa canina

Ligustrum vulgare

Dogwood	
Hazel	
Hawthorn	
Holly	
Wild Privet	
Blackthorn	
Dog Rose	
Common Elder	
Guelder Rose	

Blocks of structural native woodland planting are proposed along the perimeters to assist in softening and integrating the built form within the local and wider landscape setting. Gas easement restricts location of new planting.

0000 5000

The proposed scheme will include substantial wide landscape buffers within a linear park along the northern and south western boundaries adjacent to the A5 and railway that incorporates the Public Right of Way network, SUDS features and extensive new planting as well as varied landscape types for ecological enhancements. The 9m IDB easement adjacent to watercourse indicated which restricts location of proposed landscaping.

Opportunities for key locations at the southern corner of the site and main entrance to incorporate public art and enhanced feature landscaping to create a landmark. Green fingers' incorporating tree planting and integrated SUDS features will run between development parcels extending into the site from the boundaries to allow for comprehensive landscape framework.

FIR

Development of the site provides opportunities for the inclusion of a comprehensive green infrastructure strategy to be included that will create landscape and biodiversity enhancements within the locality. Over the long term the landscape proposals will create robust green edges to the development and improve green infrastructure connectivity.

A substantial set back to the built elements is included along eastern boundaries to allow for robust landscape buffers to be incorporated adjacent to Brickhill Street and to minimise impacts on the wider landscape setting to the east and south east.

Landscaped primary thoroughfares include large canopied tree species set in formal avenues and formally clipped hedgerows to ensure the green links run through the site and between development parcels. Tree and plant species will aid the creation of character areas and zones.

WILDFLOWER MEADOWS - Wildflower Meadow grass mix is sown within sections along the boundaries to provide further biodiveristy and ecological benefits. Recommend use of species rich meadow grassland such as Emorsgate EM3 'Special General Purpose Meadow Mixture'

WETLAND GRASSLAND & VEGETATION - Appropriate wetland grassland and vegetation will be planted around the existing / proposed watercourse, swales and attenuation areas to enhance the wildlife value. Recommended use of meadow grassland mix along pond edges such as Emorsgate EM8 'Meadow Mixture for Wetlands.

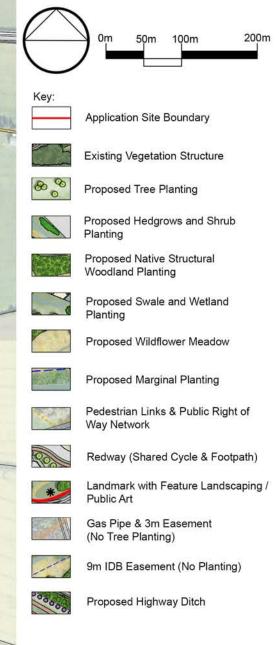


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A 03.07.19 Updated to client comments and IDB easement. SB CJ DRAWN CHK'D REVISIONS

aspect landscape planning

TITLE

Land at South Caldecotte Illustrative Landscape Strategy Plan

HB (South Caldecotte) Ltd

SCALE	DATE	DRAWN	CHK.D
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