Table 4: Summary of BNG from Area Habitats

Habitat Types	Distinctiveness	Strategic Significance	Retained		Enhanced		Created		Target Conditions	Notes
			Ha	BU	Ha	BU	Ha	BU		
Cereal crops	Low	Area/compensation not in local strategy/ no local strategy	0.00	0.00	0.00	0.00	0.00	0.00	Condition Assessment N/A	
Developed land; sealed surface	V.Low	Area/compensation not in local strategy/ no local strategy	9.23	0.00	0.00	0.00	1.5	0.00	N/A - Other	
Mixed scrub	Medium	Area/compensation not in local strategy/ no local strategy	0.02	0.06	0.00	0.00	0.00	0.00	Poor	
Modified grassland	Low	Area/compensation not in local strategy/ no local strategy	0.21	0.71	0.00	0.00	0.00	0.00	Good	
Modified grassland	Low	Area/compensation not in local strategy/ no local strategy	14.29	28.58	0.00	0.00	0.00	0.00	Poor	
Modified grassland	Low	Area/compensation not in local strategy/ no local strategy	0.00	0.00	0.00	0.00	29.14	101.08	Moderate	
Other neutral grassland	Medum	Area/compensation not in local strategy/ no local strategy	0.00	0.00	0.00	0.00	1.03	3.44	Poor	
Other woodland; broadleaved	Medum	Area/compensation not in local strategy/ no local strategy	0.00	0.00	0.00	0.00	34.37	128.02	Poor	
Sub-totals			23.75	29.90	0.00	0.00	187.70	0.00	Condition Assessment N/A	
Total BU										**61.88%**
Total BNG %										**262.44**

Table 5: Summary of BNG for Linear Habitats

Habitat Types	Distinctiveness	Strategic Significance	Retained		Enhanced		Created		Target Conditions	Notes
			km	BU	km	BU	km	BU		
Line of trees	Low	Area/compensation not in local strategy/ no local strategy	0.32	1.28	0.00	0.00	0.00	0.00	Moderate	
Line of trees	Low	Area/compensation not in local strategy/ no local strategy	0.28	0.56	0.00	0.00	0.00	0.00	Poor	
Native hedgerow	Low	Formally identified in local strategy	2.21	15.25	0.00	0.00	0.00	0.00	Good	
Native hedgerow	Low	Formally identified in local strategy	3.22	14.81	0.00	0.00	0.00	0.00	Moderate	
Native hedgerow	Low	Formally identified in local strategy	0.03	0.07	0.00	0.00	0.00	0.00	Poor	
Species-rich native hedgerow - associated with bank or ditch	Medium	Formally identified in local strategy	0.23	3.17	0.00	0.00	0.00	0.00	Moderate	
Species-rich native hedgerow with trees	High	Formally identified in local strategy	0.77	15.94	0.00	0.00	2.05	20.81	Good	
Species-rich native hedgerow	High	Formally identified in local strategy	0.17	2.35	0.00	0.00	0.00	0.00	Good	
Sub-totals			7.23	53.43	0.00	0.00	2.05	20.81		
Total BU										**74.24**
Total BNG %										**26.03%**

Table 6: Summary of BNG from Watercourse Habitats

Habitat Types	Distinctiveness	Strategic Significance	Watercourse encroachment	Riparian encroachment	Retained		Enhanced		Created		Target Conditions	Notes
					km	BU	km	BU	km	BU		
Ditches	Medium	Area/compensation not in local strategy/ no local strategy	No Encroachment	No Encroachment/ No Encroachment	0.00	0.00	0.19	0.76	0.00	0.00	Poor	Reduced encroachment of the riparian area through change of habitat management from arable to grassland.
Ditches	Medium	Area/compensation not in local strategy/ no local strategy	No Encroachment	Major/Major	0.01	0.03	0.00	0.00	0.00	0.00	Poor	
Other rivers and streams	High	Formally identified in local strategy	No Encroachment	No Encroachment/ No Encroachment	0.05	0.69	0.00	0.00	0.00	0.00	Moderate	
Sub-totals					0.06	0.72		0.76	0.00	0.00		
Total BU												**1.48**
Total BNG %												**14.73%**

Area Habitats

As shown in Table 4, implementing the Proposed Development footprint and landscaping design will result in an overall gain of **61.88%** through the creation of modified grassland and other neutral grassland from the low distinctiveness arable habitat and the creation of other broadleaved woodland.

Hedgerows/Lines of Trees

As shown in Table 5, implementing the Proposed Development footprint and landscaping design will result in an overall gain of **26.03%** through the retention of most linear features and the creation of additional species rich native hedgerows with trees in good condition.

Watercourse based Habitats

As shown in Table 6, implementing the Proposed Development footprint and landscaping design will result in an overall gain of **14.73%** through reducing the level of encroachment on the riparian habitat of one of the ditches within the Site.

4.5.2 Trading Rules

The proposed on-Assessment Boundary changes to the habitats results in the trading rules being passed.

High Distinctiveness

- Species-rich native hedgerow with trees had an overall project wide gain of 20.52 BU and therefore trading standards have been passed for this habitat.
- Species-rich native hedgerow-associated with bank or ditch had no overall project wide change and therefore trading standards have been passed for this habitat.
- Other rivers and streams had no overall project wide change and therefore trading standards have been passed for this habitat.

Medium Distinctiveness

- Other neutral grassland had an overall project wide gain of 128.02 BU and therefore trading standards have been passed for this habitat.
- Mixed scrub had no overall project wide change and therefore trading standards have been passed for this habitat.
- Other broadleaved woodland had an overall project wide gain of 3.44 BU and therefore trading standards have been passed for this habitat
- Species-rich native hedgerow had an overall project wide unit loss of -0.06 BU this has been accounted for with a surplus of biodiversity units from the creation of species-rich native hedgerow with trees, therefore trading standards have been passed for this habitat.
- Ditches had an overall project wide gain of 0.19 BU and therefore trading standards have been passed for this habitat

Low Distinctiveness

- Other cereal crop had an overall project wide loss of -127.980 BU this has been accounted for with a surplus of biodiversity units from the creation of other low distinctiveness habitats (modified grassland) and therefore trading standards have been passed for this habitat.

- Modified grassland had an overall project wide gain of 96.85 BU and therefore trading standards have been passed for this habitat.
- Native hedgerow had a project wide loss of -5.12 BU this has been accounted for with a surplus of biodiversity units from the creation of medium distinctiveness habitats therefore trading standards have been passed for this habitat.
- Line of trees had a project wide loss of -0.01 BU this has been accounted for with a surplus of biodiversity units from the creation of medium distinctiveness habitats therefore trading standards have been passed for this habitat

4.5.3 Assumptions and criteria

The calculations above are based on both default assumptions that are built into the Metric and criteria/assumptions selected from a series of drop-down menus. They include the following for transparency:

Habitat Creation

- Habitats proposed to be wildflower mix will be modified grassland in 'moderate' condition and will be required
- Habitats proposed to be species rich grassland and additional areas for biodiversity enhancement mix will be other neutral grassland in 'poor'.
- Habitats proposed to be native scrub woodland planting will be other broadleaved woodland in 'poor'.
- Hedgerows proposed to be created will species-rich native hedgerows with trees in 'good' condition and will require to fail no more than two failures of condition criteria and no more than one failure in any functional group.

Habitat Enhancement

- The ditch within the Site will be enhanced through reducing the encroachment of the riparian habitat from Major/Major to No encroachment/No Encroachment through changing the adjacent habitat from arable cereal crop to grassland.

5. Conclusion

It has been demonstrated that the Proposed Development will achieve well in excess over the minimum statutory requirement for biodiversity net gain with the overall biodiversity net gain for area habitats of **61.88%**, an overall biodiversity net gain for linear habitats of **26.03%** and an overall biodiversity net gain for watercourse based habitats of **14.75%**.

This overall biodiversity net gain for the area based habitats is achieved through the creation of other neutral grassland, modified grassland and other woodland broadleaved. The overall biodiversity net gain for the linear based habitats is achieved through the retention of most linear features and creation of new species rich native hedgerows with trees. The overall biodiversity net gain for watercourse based habitat is achieved through reducing the level of encroachment on the riparian habitat of one of the ditches within the Site.