

Ecology – Appendix D

Table 13.18: The residual impacts of the development on the ecological receptors identified during the baseline studies

Ecological Receptor	Value	Phase of development	Design Mitigation	Potential Impact prior to mitigation (taking in to account Design Mitigation)	Mitigation Measures	Residual Impacts and likely significance at geographic scale of reference
Oxford Meadows SAC	International	Construction	None	Short-term negligible / low magnitude impact, localised to The Site from air pollution due to construction traffic	None required	No significant impact at any geographic level
		Operational	None	Short term negligible / low negative due to air pollution from traffic associated with dwellings and commercial developments.	None required	No significant impact at any geographic level
Blenheim Park SSSI	National	Construction	None	Short term low magnitude, short-term negative due to air pollution from construction traffic	None required	No significant impact at any geographic level
		Operational	None	Low magnitude, long-term negative impact due to air pollution from traffic associated with	None required	No significant impact at any geographic level

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				dwelling and commercial developments.		
All Local Wildlife Sites	County / National	Construction	None	None	None required	No significant impact at any geographic level
		Operational	Open space areas provided on site for residents	Low magnitude, long-term negative impact as a result of increased visitor pressure	None required	No significant impact at any geographic level
Woodland and lines of trees	Parish	Construction and Operational	Retention of most of the on-site woodland (total 3 ha) with 4% (0.18 ha) removed along eastern boundary of The Site. Appropriate use of lighting during construction. Green Network tree planting scheme includes; 6.54 ha of newly created woodland composed of a native species mix; and 3284 m of scattered and	Long term positive impact of medium magnitude at Parish level.	Adherence to British standards in relation to trees. Adoption of Lighting Strategy.	Long-term, positive impact at a Parish level.

Ecological Receptor	Value	Phase of development	Design Mitigation	Potential Impact prior to mitigation (taking in to account Design Mitigation)	Mitigation Measures	Residual Impacts and likely significance at geographic scale of reference
			individual trees. Tree species will be native and of local provenance.			
Semi-improved grassland – field margins	Parish	Construction and Operational	Retention of semi improved grassland habitats along The Site boundary, with 2.0 ha retained. The Green Network includes the creation of the following grassland habitats: <ul style="list-style-type: none"> • conservation species-rich lawns (6.57 ha); • amenity grassland (11.11 ha); and • amenity grassland (gardens) (9.84 ha) 	Long term positive impact of medium magnitude at a Parish level	None required	Long term positive impact at a Parish level


Ecological Receptor	Value	Phase of development	Design Mitigation	Potential Impact prior to mitigation (taking in to account Design Mitigation)	Mitigation Measures	Residual Impacts and likely significance at geographic scale of reference
Hedgerows	Parish	Construction and post construction	Retention of most hedgerows on Site (2949 m) with only 148 m being removed (5% loss). Inclusion in the Green Network of additional tree line and hedge planting 751 m. Hedgerow species will be native and of local provenance. Appropriate use of lighting during construction.	Long-term, positive impact of medium magnitude on hedgerow habitat significant at a Parish level	Adherence to British standards in relation to trees. Best practice management of hedgerows Adoption of Lighting Strategy.	Long-term, positive impact on hedgerow habitat significant at a Parish level
Great crested newt terrestrial habitat	Site	Construction	Retention of hedgerow (H5) closest to the pond (north-western corner of The Site).	Short term, negative impact of negligible/neutral impact magnitude upon terrestrial habitat at Site level.	Adherence to British standards in relation to trees and hedgerows Best practice management of hedgerows	Short term neutral impact at Site level
	Site	Operational	Inclusion in the Green	Long term, positive	Adherence to British	Long term positive

Ecological Receptor	Value	Phase of development	Design Mitigation	Potential Impact prior to mitigation (taking in to account Design Mitigation)	Mitigation Measures	Residual Impacts and likely significance at geographic scale of reference
			<p>Network to include additional planting of trees and scrub (L7) and additional double hedgerow (H14) adjacent to hedgerow (H5).</p> <p>Off Site habitat recreation within arable field to the north of The Site including the additional planting of hedgerows (H11) and woodlands (W8 and W9).</p> <p>Hedgerow species will be native and of local provenance.</p>	<p>impact of medium magnitude to the great crested newt terrestrial habitat in the north-west of The Site</p> <p>Long term, positive impact of medium magnitude to the great crested newt terrestrial habitat in off Site in</p>	<p>standards in relation to trees.</p> <p>Best practice management of hedgerows</p>	impact at Parish level
Reptiles	Parish	Construction	<p>Retention of most hedgerows on Site (2949 m) with only 148 m being removed.</p> <p>Retention of semi improved grassland habitats along The Site</p>	Short Negative permanent impact low magnitude	Preparation of mitigation strategy: translocation of reptile population from construction footprint to newly created receptor site	No negative impact at any geographic level

Ecological Receptor	Value	Phase of development	Design Mitigation	Potential Impact prior to mitigation (taking in to account Design Mitigation)	Mitigation Measures	Residual Impacts and likely significance at geographic scale of reference
			boundary, with 2.0 ha retained.			
		Operational	<p>Inclusion in the Green Network (on and off site) of additional tree line and hedge planting 751 m</p> <p>The Green Network includes the creation of the following grassland habitats:</p> <ul style="list-style-type: none"> conservation species-rich lawns (6.54 ha); and amenity grassland (11.11 ha) amenity grassland including gardens (9.84 ha) 	Positive permanent impact medium magnitude	Management of receptor site for reptiles	Long term positive at at Parish level
Overall breeding bird community	Site	Construction	Retention of most of the on-site woodland (total	Low short term negative impact at Site level	Site clearance at appropriate time of year	No negative impact at any geographic level

Ecological Receptor	Value	Phase of development	Design Mitigation	Potential Impact prior to mitigation (taking in to account Design Mitigation)	Mitigation Measures	Residual Impacts and likely significance at geographic scale of reference
			<p>3 ha) with 4% removed along eastern boundary of The Site.</p> <p>Retention of most hedgerows on Site (2949 m) with only 148 m being removed.</p>		to avoid nesting season, or check by ecologist	
Overall breeding bird community		Operational	<p>Green Network tree planting scheme includes; 6.54 ha of newly created woodland composed of a native species mix; and 4204 m of scattered and individual trees.</p> <p>Tree species will be native and of local provenance.</p> <p>The Green Network includes the creation of the following grassland habitats:</p> <ul style="list-style-type: none"> • conservation species-rich lawns 	Long term positive impact at Parish level	<p>Adherence to British standards in relation to trees.</p> <p>Best practice management of hedgerows</p> <p>Adoption of Lighting Strategy.</p>	Long term positive impact at Parish level

Ecological Receptor	Value	Phase of development	Design Mitigation	Potential Impact prior to mitigation (taking in to account Design Mitigation)	Mitigation Measures	Residual Impacts and likely significance at geographic scale of reference
			(6.54 ha); and <ul style="list-style-type: none"> • amenity grassland (11.11 ha) • amenity grassland including gardens (9.84 ha) 			
Yellowhammer and skylark	Site/Parish	Construction	Appropriate use of lighting during construction.	Short term negative low impact at Site level	Site clearance at appropriate time of year to avoid nesting season, or check by ecologist	No negative impact at any geographic level
		Operational	Off Site development of suitable breeding habitat for skylark and yellowhammer within Areas of the Blenheim Estate	Long term positive impact at Parish level	On going management of nesting habitat	Long term positive impact at Parish level

Ecological Receptor	Value	Phase of development	Design Mitigation	Potential Impact prior to mitigation (taking in to account Design Mitigation)	Mitigation Measures	Residual Impacts and likely significance at geographic scale of reference
			Retention of most hedgerows on Site (2949 m) with only 148 m being removed.			
		Operational	Provision of traffic calming measures. Green Network tree planting scheme includes; 6.54 ha of newly created woodland composed of a native species mix; and 4204 m of scattered and individual trees.			No significant impact/neutral at a Parish level
Dormouse	District	Construction	Retention of most of the on-site woodland (total 3 ha) with 4% removed along eastern boundary of The Site. Retention of most hedgerows on Site (2949 m) with only 148 m being removed.	Short term negative impact of low magnitude through loss of habitat and severance of commuting routes	European Protected Species Licence Derogation	Long term positive impact at District level

Ecological Receptor	Value	Phase of development	Design Mitigation	Potential Impact prior to mitigation (taking in to account Design Mitigation)	Mitigation Measures	Residual Impacts and likely significance at geographic scale of reference
			Appropriate use of lighting during construction.			
		Operational	<p>Appropriate use of lighting during construction.</p> <p>Inclusion in the Green Network (on and off site) of additional tree line and hedge planting 751 m.</p> <p>Hedgerow species will be native and of local provenance.</p> <p>Creation of arboreal bridges at road junctions within The Site.</p>	Long term positive impact at District level	<p>Adherence to British standards in relation to trees.</p> <p>Best practice management of trees and hedgerows</p> <p>Adoption of Lighting Strategy.</p>	Long term positive impact at District level
Bats	Parish	Construction	Retention of most of the on-site woodland (total 3 ha) with 4% removed along eastern boundary of The Site.	<p>Negative impact on roosting bats of significance at site level.</p> <p>No impact on bat</p>	Further survey to establish presence/absence of roosts prior to demolition of buildings	No significant impact at any geographic level.

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			Retention of most hedgerows on Site (2949 m) with only 148 m being removed. Appropriate use of lighting during construction.	activity as a result of direct loss of habitat (minimal woodland and foraging habitat loss). Negative impact on commuting and foraging bats as a result of construction lighting.	and removal of trees, and preparation of a mitigation strategy, if required. Adoption of appropriate lighting strategy.	
		Operational	Green Network tree planting scheme includes; 6.54 ha of newly created woodland composed of a native species mix, providing potential bat tree roosts. Inclusion in the Green Network (on and off site) of additional tree line and hedge planting 751 m. Hedgerow species will be native and of local provenance. Creation of arboreal	Neutral impact on bat species with low magnitude of significance at The Site level only	Adoption of appropriate lighting strategy Erection of bat boxes to increase roosting opportunities	No significant impact at any geographic level.

Ecological Receptor	Value	Phase of development	Design Mitigation	Potential Impact prior to mitigation (taking in to account Design Mitigation)	Mitigation Measures	Residual Impacts and likely significance at geographic scale of reference
			bridges at road junctions within The Site.			
Polecat	Parish	Construction and Operational	Retention of grassland habitats along the site boundary. Inclusion of conservation species-rich lawns (6 ha) in the Green Network. Plantings scheme includes 6.54 ha of newly created woodland composed of a native species mix.	No significant impact/neutral at a Parish level	Adoption of traffic calming measures	No significant impact/neutral at a Parish level
Invertebrates	Site	Construction and Operational	Inclusion in the Green Network (on and off site) of additional tree line and hedge planting 751 m Retention of grassland habitats along the site boundary.	No significant impact/neutral at a Parish level	Areas of dead wood should be retained within the woodland sections	Long term positive impact at Parish level

Ecological Receptor	Value	Phase of development	Design Mitigation	Potential Impact prior to mitigation (taking in to account Design Mitigation)	Mitigation Measures	Residual Impacts and likely significance at geographic scale of reference
			<p>Inclusion of conservation species-rich lawns (6.57 ha) in the Green Network.</p> <p>Plantings scheme includes 6.54 ha of newly created woodland composed of a native species mix.</p>			