

The Biodiversity Metric 4.0 - Calculation Tool

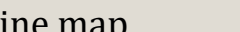
Start page

Project details			
Planning authority:	Leicester County Council		
Project name:	Leicter Road, Markfield		
Applicant:	Charterpoint		
Application type:	Full		
Planning application reference:			
Completed by:	Victoria Halford, Consultant Ecologist		
Date of metric completion:	07 September 2023		
Reviewer:	Kinzie Watts, Ecology Team Leader		
Version control:			
Consenting body reviewer:			
Date of consenting body review:			
Target % net gain:	10%		
Irreplaceable habitat present on-site at baseline:		You must specify if irreplaceable habitats are on-site at baseline ▲	
Total site area (including irreplaceable habitat area):	1.15	Irreplaceable habitat area at baseline:	0.00

Instructions

Main menu

Results

Cell style conventions	
	Attention required
	Input error/rules and principles not met
	Use of this cell is not appropriate
	Enter data
	Automatic lookup
	Result

View all

Reset view

On-site baseline map

Insert



On-site baseline map reference number

On-site post intervention map

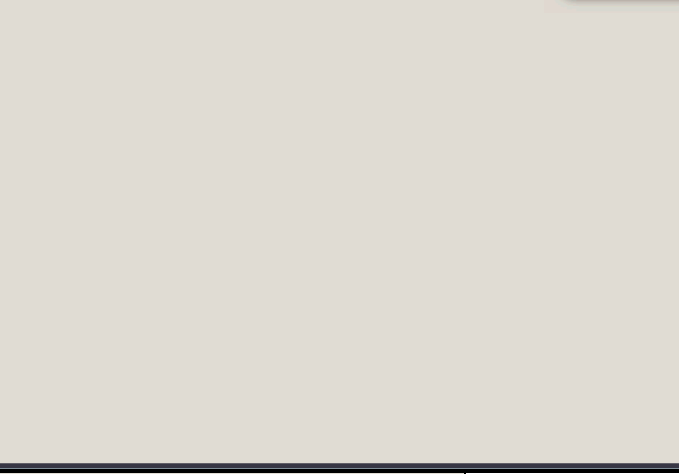
Insert



On-site post-intervention map reference number

Off-site baseline map

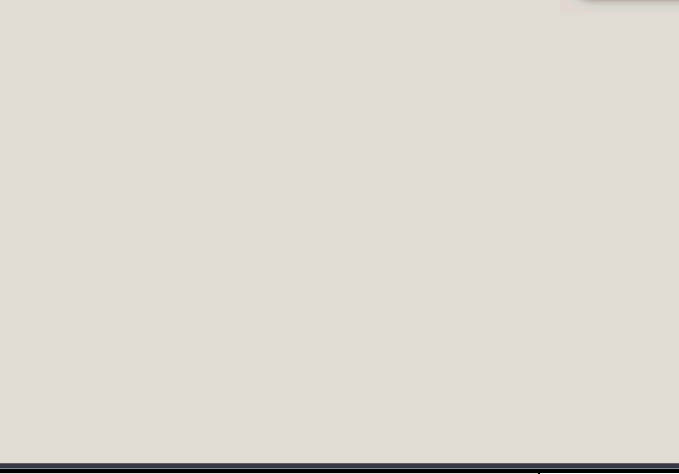
Insert



Off-site baseline map reference number

Off-site post intervention map

Insert



Off-site post-intervention reference number

Leicter Road, Markfield

Headline Results

Scroll down for final results ☐

Return to results menu

Errors flagged below - please investigate further ▲

On-site baseline	Habitat units	8.94		
	Hedgerow units	2.46		
	Watercourse units	0.54		
On-site post-intervention (Including habitat retention, creation & enhancement)	Habitat units	6.68		
	Hedgerow units	2.44		
	Watercourse units	0.54		
On-site net change (units & percentage)	Habitat units	-2.27	-25.34%	On-site net gain is less than target set ☐
	Hedgerow units	-0.03	-1.02%	On-site net gain is less than target set ☐
	Watercourse units	0.00	0.00%	On-site net gain is less than target set ☐

Off-site baseline	Habitat units	0.00		
	Hedgerow units	0.00		
	Watercourse units	0.00		
Off-site post-intervention (Including habitat retention, creation & enhancement)	Habitat units	0.00		
	Hedgerow units	0.00		
	Watercourse units	0.00		
Off-site net change (units & percentage)	Habitat units	0.00	0.00%	
	Hedgerow units	0.00	0.00%	
	Watercourse units	0.00	0.00%	

Combined net unit change (Including all on-site & off-site habitat retention, creation & enhancement)	Habitat units	-2.27		
	Hedgerow units	-0.03		
	Watercourse units	0.00		
Spatial risk multiplier (SRM) deductions	Habitat units	0.00		
	Hedgerow units	0.00		
	Watercourse units	0.00		

FINAL RESULTS

Total net unit change (Including all on-site & off-site habitat retention, creation & enhancement)	Habitat units	-2.27		
	Hedgerow units	-0.03		
	Watercourse units	0.00		
Total net % change (Including all on-site & off-site habitat retention, creation & enhancement)	Habitat units	-25.34%	Total net gain achieved is less than target set ☐	
	Hedgerow units	-1.02%	Total net gain achieved is less than target set ☐	
	Watercourse units	0.00%	Total net gain achieved is less than target set ☐	

Trading rules satisfied?

No - Check Trading Summaries ▲

You must specify if irreplaceable habitats are on-site at baseline ▲

Unit Type	Target	Baseline Units	Units Required	Unit Deficit
Habitat units	10.00%	8.94	9.84	3.16
Hedgerow units	10.00%	2.46	2.71	0.27
Watercourse units	10.00%	0.54	0.59	0.05

Project Name: Leicester Road, MarkfieldMap Reference:

A-1 On-Site Habitat Baseline

Condense / Show ColumnsCondense / Show Rows

Main MenuInstructions

Area habitat summary

Total Net Unit Change

-3.27

Total Net % Change

-25.84%

Trading Rules Satisfied

No - check trading summaries ▲

Existing area habitats

Distinctiveness

Condition

Strategic significance

Required Action to Meet Trading Rules

Ecological baseline

Ref

Broad Habitat

Habitat Type

Area (hectares)

Distinctiveness

Score

Condition

Score

Strategic significance

Strategic significance

Strategic Significance multiplier

Total habitat units

1

Grassland

Other neutral grassland

0.13

Medium

4

Good

3

Location ecologically desirable but not in local strategy

Medium strategic significance

1.1

Same broad habitat or a higher distinctiveness habitat required (2)

1.72

2

Grassland

Other neutral grassland

0.52

Medium

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 (2)

4.16

3

Heathland and shrub

Mixed scrub

0.08

Medium

4

Poor

1

Area/compensation not in local strategy/ no local strategy

Low Strategic Significance

1

Same broad habitat or a higher distinctiveness habitat required (4)

0.32

4

Urban

Developed land; sealed surface

0.006

V.Low

0

N/A - Other

0

Area/compensation not in local strategy/ no local strategy

Low Strategic Significance

1

Compensation Not Required

0.00

5

Heathland and shrub

Mixed scrub

0.004

Medium

4

Poor

1

Area/compensation not in local strategy/ no local strategy

Low Strategic Significance

1

Same broad habitat or a higher distinctiveness habitat required (2)

0.02

6

Grassland

Other neutral grassland

0.2

Medium

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 (2)

1.60

7

Grassland

Other neutral grassland

0.13

Medium

4

Poor

1

Area/compensation not in local strategy/ no local strategy

Low Strategic Significance

1

Same broad habitat or a higher distinctiveness habitat required (2)

0.52

8

Individual trees

Rural tree

0.0765

Medium

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 (2)

0.61

9

10

11

12

Total habitat area

1.15

Site Area (Excluding area of Individual trees and Green walls)

1.07

Retention category biodiversity value

Bespoke compensation agreed for unacceptable losses

Comments

Area retained

Area enhanced

Baseline units retained

Baseline units enhanced

Area habitat lost

Units lost

User comments

Consenting body comments

GIS reference number

0.13

0

1.72

0.00

0.00

0.00

Area qualifies as LWS status due to the presence of 10 indicator species listed in the guidelines for the selection of local wildlife site in Leicester, Leicestershire and Rutland. Keys out as UKHAB g3c5 grassland, passing essential criteria 1. However, the area does not pass the 2500m2 minimum size classification for LWS selection. Therefore, the area has strategic multiplier applied and

0.18

0

1.44

0.00

0.34

2.72

Area does not have the same level of species diversity as the southeastern grassland field. Area displayed 6 indicators species, not greater than frequent. Area considered enhanceable using management techniques to improve diversity of forbs. Area to be largely lost under the proposals as will support the proposed residential care home building. Retained grassland down towards scrub

0

0.08

0.00

0.32

0.00

0.00

Area of scrub around the onsite stream. Area dominated by bramble and blackthorn, disqualified from bramble scrub classification. Area poor as passes 2 criteria (C, D)

0

0

0.00

0.00

0.01

0.00

Two stable buildings present within the site - both to be lost under the proposals

0

0

0.00

0.00

0.00

0.02

Area of scrub in the north western corner of the scheme - area poor, only passes criteria C and D. Area to be lost under the proposals. 0.004 to be lost to grassland.

0

0.08

0.00

0.64

0.12

0.96

Corresponds to area along northeastern site boundary. The area does not have the same level of species diversity as the south-eastern grassland field. Area displayed 6 indicators species, not greater than frequent. Area considered enhanceable using management techniques to improve diversity of forbs. Area to be largely retained by the scheme and will not be used by

0

0.014

0.00

0.06

0.12

0.46

Area of grassland in the north eastern corner of the site. Area considered to support similar species composition as other areas of grassland within the site, however, the grassland failed to meet the close specification for the UKHab classification, and there was significant poaching in this area reducing its quality. This area is eligible for enhancement under the scheme, and will be fenced off during construction as it lies within the RPA of the

0.0765

0

0.61

0.00

0.00

0.00

Single large oak tree in the southern extent of the site - to be fully retained and protected

0.39

0.17

3.77

1.02

0.59

4.16

Total area lost (excluding area of Individual trees and Green walls)

0.59

M² to hectares conversion tool:

Select a unit

Hectares

M²

Area Acceptable ✓

M ³ to hectares conversion tool:	Select a unit	Hectares	M ³

Project Name: Leicester Road, Markfield	Map Reference:
A-3 On-Site Habitat Enhancement	

Condense / Show Columns Condense / Show Rows
Main Menu Instructions

Area habitat summary	
Total Net Unit Change	-3.27
Total Net % Change	-25.84%
Trading Rules Satisfied	No - check trading summaries 

[illegible]

Project Name: Leicester Road, Markfield Map Reference:

B-1 On-Site Hedge Baseline

Hedgerow summary	
Total Net Unit Change	-0.03
Total Net % Change	-1.02%
Trading Rules Satisfied	No - check trading summary ▲

Condense / Show Columns

Condense / Show Rows

Main Menu

Instructions

Baseline ref	Existing hedgerow habitats			Distinctiveness	Condition	Strategic significance	Required Action to Meet Trading Rules	Ecological baseline Total hedgerow units
	Hedge number	Hedgerow type	Length (km)	Distinctiveness	Condition	Strategic significance		
1	North	Native hedgerow with trees	0.065	Medium	Moderate	Location ecologically desirable but not in local strategy	Same distinctiveness band or better	0.57
2	West	Native hedgerow with trees	0.215	Medium	Moderate	Location ecologically desirable but not in local strategy	Same distinctiveness band or better	1.89
3								
4								
5								
6								
7								
			0.28					2.46

Retention category biodiversity value						Comments		
Length retained	Length enhanced	Units retained	Units enhanced	Length lost	Units lost	User comments	Consenting body comments	GIS reference number
0.065	0	0.57	0.00	0.00	0.00	hedgerow along northern boundary, with trees, to be fully retained		
0.2	0	1.76	0.00	0.02	0.13	hedgerow along site frontage to be retained with exception of 15m area to be cleared for access		
0.27	0.00	2.33	0.00	0.02	0.13			

Project Name: Leiter Road, MarkfieldMap Reference:

B-2 On-Site Hedge Creation

Condense / Show ColumnsCondense / Show Rows

Main MenuInstructions

Hedgerow summary	
Total Net Unit Change	-0.03
Total Net % Change	-1.02%
Trading Rules Satisfied	No - check trading summary ▲

		Proposed habitats		Distinctiveness		Condition		Strategic significance			Temporal multiplier					Difficulty risk multipliers				Hedge units delivered	Comments			
Baseline ref	New hedge number	Habitat type	Length (km)	Distinctiveness	Score	Condition	Score	Strategic significance	Strategic significance	Strategic position multiplier	Standard Time to target condition (years)	Habitat created in advance (years)	Delay in starting habitat creation (years)	Standard or adjusted time to target condition	Final time to target condition (years)	Final time to target multiplier	Standard difficulty of creation	Applied difficulty multiplier	Final difficulty of creation	Difficulty multiplier applied		User comments	Consenting body comments	GIS reference number
1	A	Species-rich native hedgerow	0.005	Medium	4	Moderate	2	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	5	0	0	Standard time to target condition applied	5	0.837	Low	Standard difficulty applied	Low	1	0.03	Top filling of existing access in the south western site boundary		
2	B	Species-rich native hedgerow	0.019	Medium	4	Poor	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	1	0	0	Standard time to target condition applied	1	0.965	Low	Standard difficulty applied	Low	1	0.07	New hedgerow proposed around area of neutral grassland creation in the north west of the site		
3																								
4																								
5																								
6																								
7																								
																					-0.03			
																					-0.11			

Project Name: Leicester Road, Markfield Map Reference: C-1 On-Site WaterC* Baseline

Condense / Show Columns

Condense / Show Rows

Main Menu

Instructions

Watercourse summary

Total Net Unit Change

0.00

Total Net % Change

0.00%

Trading Rules Satisfied

Yes✔

Existing watercourse type			Distinctiveness		Condition		Strategic significance			Watercourse encroachment		Riparian encroachment		Required Action to Meet Trading Rules	Ecological baseline
Baseline ref	Watercourse type	Length (km)	Distinctiveness	Score	Condition	Score	Strategic significance	Strategic significance	Strategic significance multiplier	Extent of encroachment	Multiplier	Extent of encroachment for both banks	Multiplier		Total watercourse units
1	Other rivers and streams	0.056	High	6	Moderate	2	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Minor	0.8	No Encroachment/ No Encroachment	1	Some habitat Acquired =	0.54
2															
3															
4															
5															
6		0.06													0.54

Retention category biodiversity value						Bespoke compensation agreed for unacceptable loss	Comments		GIS reference number
Length retained	Length enhanced	Units retained	Units enhanced	Length Lost	Units Lost		User Comments	Consenting body comments	
0.056	0	0.54	0.00	0.00	0.00		Low risk condition assessment applied as development lies beyond the 10m buffer		
0.06	0.00	0.54	0.00	0.00	0.00				