

# The Biodiversity Metric 3.1

auditing and accounting for biodiversity

#### **Calculation Tool**

Open Tool

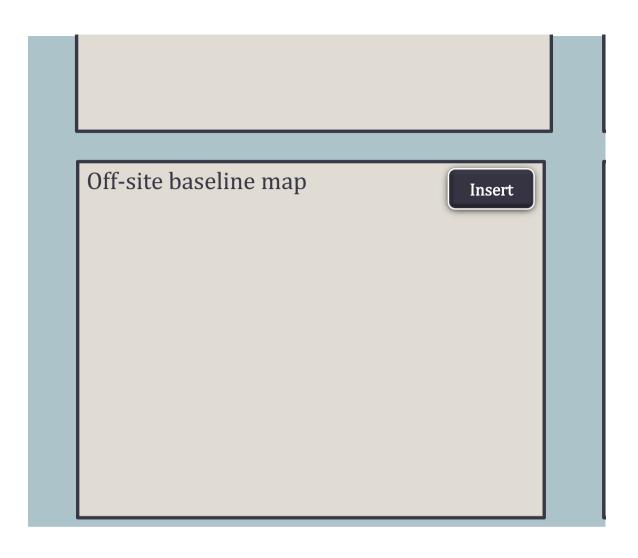
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# The Biodiversity Metri Start

	Project details
Planning authority:	
Project name:	На
Applicant:	
Application type:	
Planning application reference:	
Assessor:	
Reviewer:	
Metric version:	
Assessment date:	
Planning authority reviewer:	
	Cell style conventions
On-site baseline map	Insert



# ic 3.1 - Calculation Tool t page

Exeter City Council	Instructions
ven Banks Retail Park	
Union 4 Planning	
Outline	Main menu
Joseph Small	
3.1	
27/06/2022	Results
Enter data	View all
Automatic lookup  Result	Reset view
On-site post intervention map	Insert

Off-site post intervention map	Insert

# The Biodiversity Metric 3.1 Instruction

Start page

Main menu

Double click the front pag

Natural England Joint Publication JP039

Biodiversity M

Auditing and accounting

Calculation Tool: \$

First published 21st April 2022

www.gov.uk/natural-england



### - Calculation Tool

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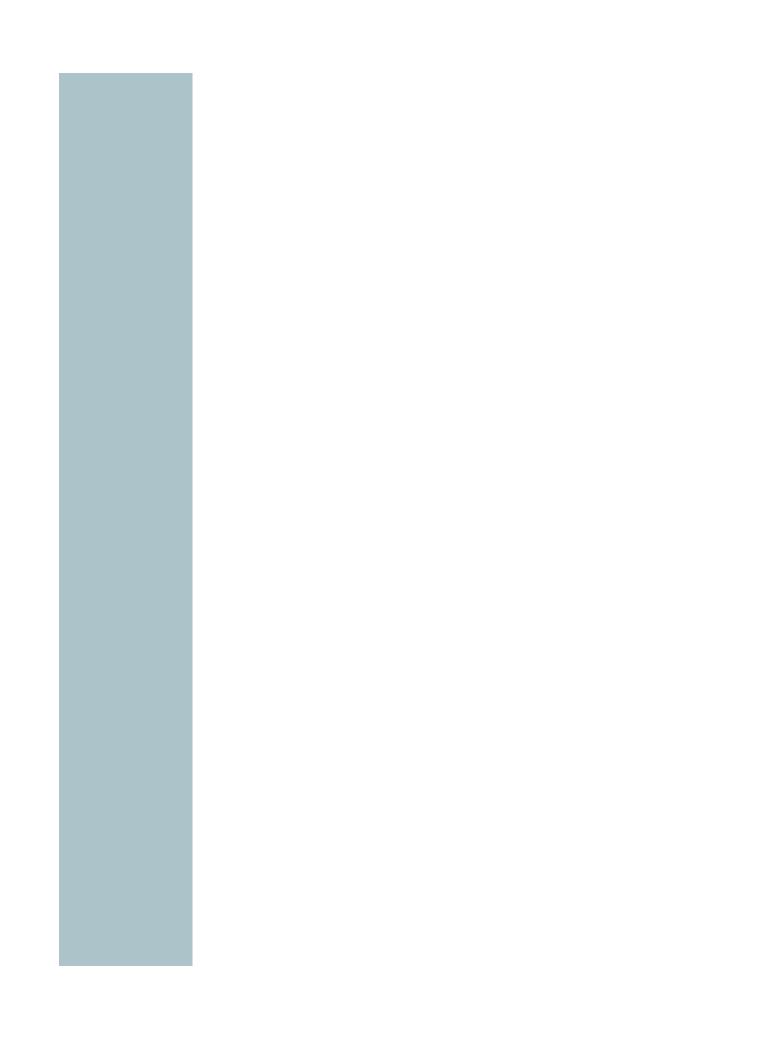
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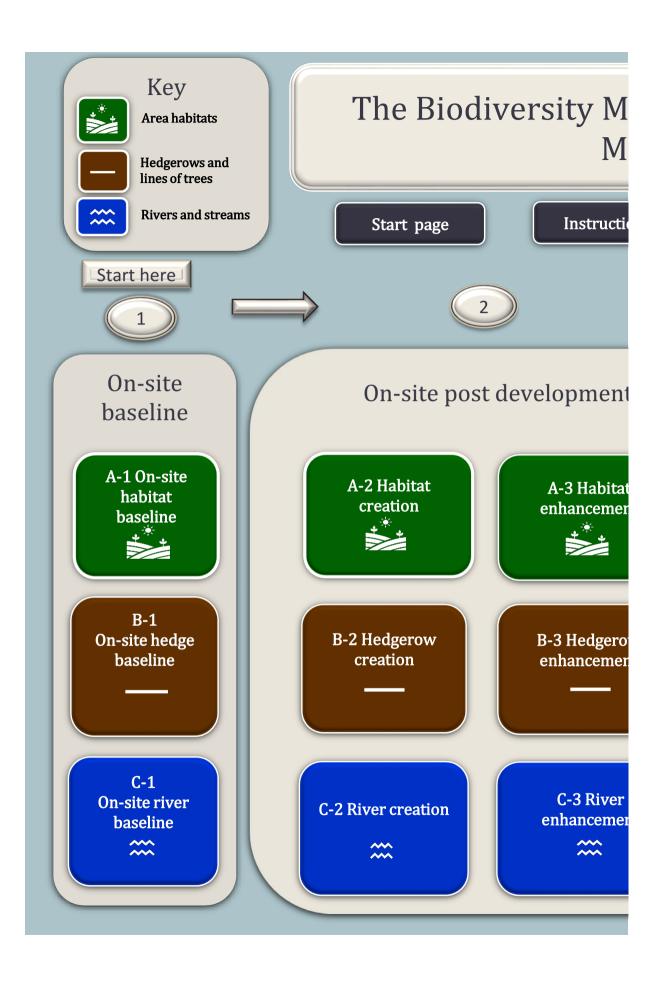
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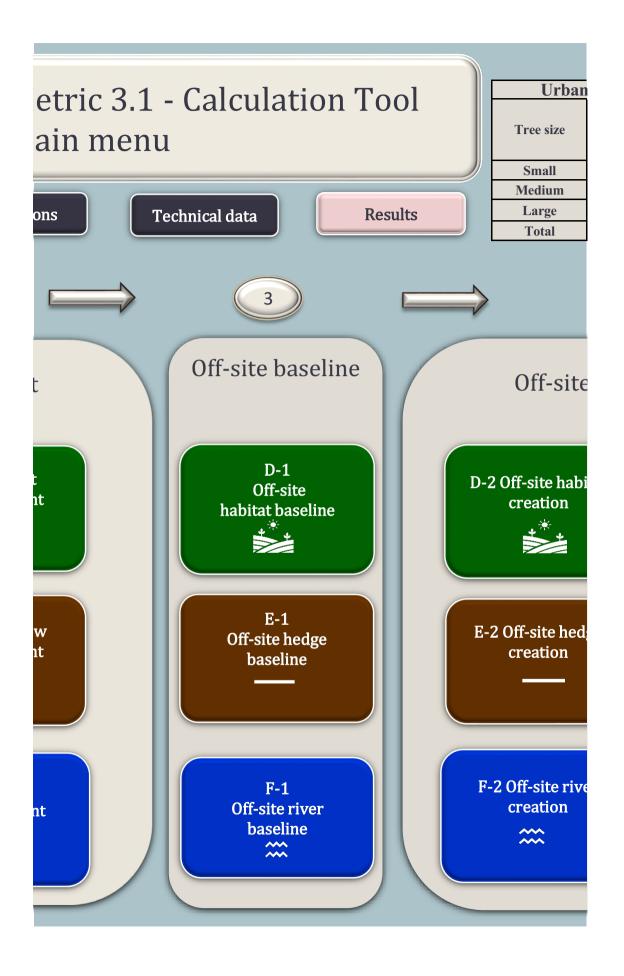
for biodiversity

#### **Short Guide**











Number of trees and area (ha) for each condition state

Poor	Area	Moderate	Area	Good	Area
	0.0000		0.0000		0.0000
	0.0000		0.0000		0.0000
	0.0000		0.0000		0.0000
0	0.0000	0	0.0000	0	0.0000



#### post development

tat

D-3 Off-site habitat enhancement



ge

E-3 Off-site hedge enhancement

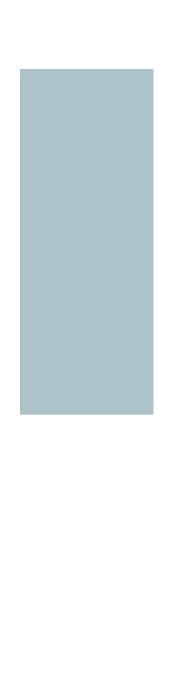
er

F-3 Off-site river enhancement



# The Biodiversity Metric 3.1 - Calcu Results Return to start page Headline results Detailed results





Haven Banks Retail Park  Headline Results	Return to results menu
On-site baselin	ie
On-site post-interve	
On-site net % cha	ınge

0 :4 4.0/ 1	Habitat units
On-site net % change	Hedgerow units
(Including habitat retention, creation & enhancement)	River units
	Habitat units
Off-site baseline	Hedgerow units
	River units
	Habitat units
Off-site post-intervention	Hedgerow units
(Including habitat retention, creation & enhancement)	River units

Habitat units

Hedgerow units
River units

Habitat units
Hedgerow units
River units

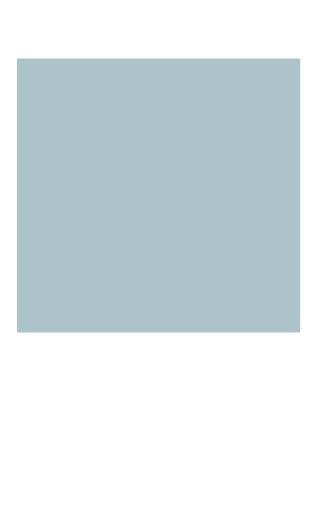
Total net unit change (including all on-site & off-site habitat retention, creation & enhancement)	Habitat units Hedgerow units River units
Total on-site net % change plus off-site surplus (including all on-site & off-site habitat retention, creation & enhancement)	Habitat units Hedgerow units River units
Trading rules Satisfied?	No - Check Trac

3.02
0.00
0.00
3.42
0.00
0.00
13.19%
0.00%
0.00%
0.00
0.00
0.00
0.00
0.00
0.00

0.40
0.00
0.00

13.19% 0.00% 0.00%

ling Summary ▲



Haven Banks Retail Park
Detailed Results
Summary Figures
Net project biodiversi (including all on-site & off-site habitat re
Total project biodiversity (including all On-site & Off-site Habitat Creation
Combined
Total on-site and off-site baseline area / length
Total on-site and off-site baseline units
Total on site and off site hassline area / langth retained
Total on-site and off-site baseline area / length retained  Total on-site and off-site baseline units retained
TOWN ON DIVO WING DIVO CONSCIENCE WHILE TOWNING
Area / length proposed for enhancement
Baseline units proposed for enhancement
Total on-site and off-site baseline area / length lost
Total on-site and off-site baseline units lost
Area habitats
Al Ca Habitats
On site ch

	Rivers and Streams		
	Kivers and Streams		
	On si		
	River type		
	Priority Habitat		
	Other Rivers and Streams  Ditches		
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	River type
	Priority Habitat
	Other Rivers and Streams
<u>S</u>	Ditches
eam	Canals
Stre	Culvert
Rivers and Streams	
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y units	
y units	
<i></i>	Habitat units
ention/creation)	Hedgerow units River units
,	10,0,0,0,0
% change	Habitat units
	Hedgerow units
Retained Habitats)	River units
Habitats 2.38	Hedgerows 0.00
3.02	0.00
0.10	0.00
0.10 0.40	0.00
0.40	0.00
0.40	0.00
0.40	0.00
0.40	0.00

Baseline		Post development on site		Onsit
Existing area	Existing value	Proposed area	Proposed value	Area change
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.10	0.35	0.10
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
2.38	3.02	2.45	3.07	0.06
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00

#### ange by broad habitat type

Baseline		Post development Off-site		Off-sit
Existing area	Off-site Existing value	Off-site proposed area	Off site Proposed value	Off-site area change
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00

#### l off site change by broad habitat type

Baseline	On-site and Off-site post development	Combin

Existing area	Existing value	Combined proposed area	Combined proposed value	Proposed area
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.10	0.35	0.10
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
2.38	3.02	2.45	3.07	0.06
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00

#### S

#### change by hedgerow type

Baseline		Post development on site		Onsite	
Existing length on-site	Existing value	Proposed length on-site	Proposed value on-site	On-site length change	
0.00	0.00	0.00	0.00	0.00	
0.00	0.00	0.00	0.00	0.00	
0.00	0.00	0.00	0.00	0.00	
0.00	0.00	0.00	0.00	0.00	
0.00	0.00	0.00	0.00	0.00	
0.00	0.00	0.00	0.00	0.00	
0.00	0.00	0.00	0.00	0.00	
0.00	0.00	0.00	0.00	0.00	
0.00	0.00	0.00	0.00	0.00	
0.00	0.00	0.00	0.00	0.00	
0.00	0.00	0.00	0.00	0.00	
0.00	0.00	0.00	0.00	0.00	
0.00	0.00	0.00	0.00	0.00	

change by hedgerow type

Off site baseline		Post develop	ment off site	Off sit
Existing length off-site	Existing value off- site	Proposed length off-site	Proposed value off-site	Off-site length change
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00

l off site change by hedgerow type

Baseline		Post development on site		Onsite
Existing length	Existing value	Proposed length	Proposed value	length change
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00

## te change by river type

Baseline		Post development on site		Onsite
Existing length	Existing value	Proposed length	Proposed value	length change
0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0

## te change by river type

Baseline		Post development off-site		Off-sit
Existing length off-site	Existing value off- site	Proposed length off-site	Proposed value off-site	Off-site length change
0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0

# and off site change by river type

Baseline		Post development on site		Onsite
Existing length	Existing value	Proposed length	Proposed value	length change
0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0

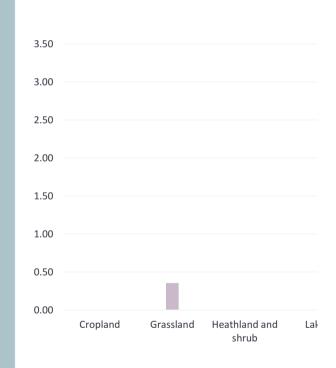
	0.40 0.00		
	0.00		
	3.19% .00%		
	.00%		
R	Rivers		
	0.00		
	0.00		
	0.00		
	0.00		
	0.00		
	0.00		
	0.00		
	0.00		
	0.00		

## e Change Onsite Unit change 0.00 0.35 0.00 0.00 0.00 0.04 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Combined area lost by distin		
Category	Area lost (hectares)	
V.High	0	
High	0	
Medium	0.6	
Low	0.112	
V.Low	1.568	

## te Change

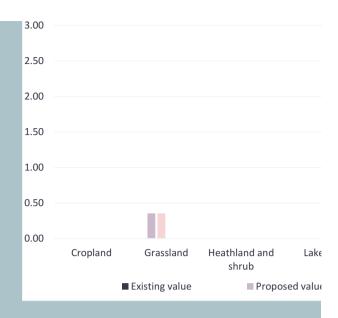
Off-site unit
change
0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.00



3.50

ned change

Proposed value
0.00
0.35
0.00
0.00
0.00
0.04
0.00
0.00
0.00
0.00
0.00
0.00
0.00



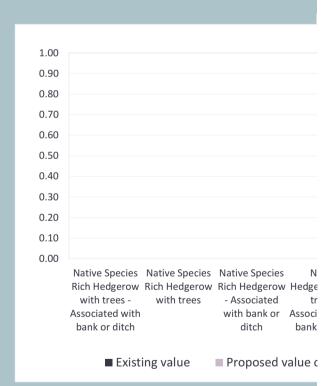
e Change
On-site Unit change
0.00
0.00
0.00
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0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.00

Combined length lost by d	
Category	Length lost (KM)
V.High	0
High	0
Medium	0
Low	0
V.Low	0

e Change
Off site Unit change
0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.00
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0.00
0.00
0.00
0.00

e Change
Onsite Unit
change
0.00
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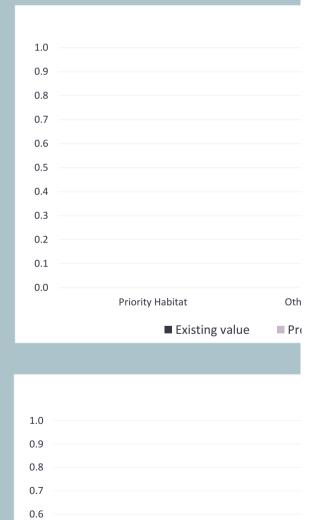


e Change
Onsite Unit
change
0.0
0.0
0.0
0.0
0.0

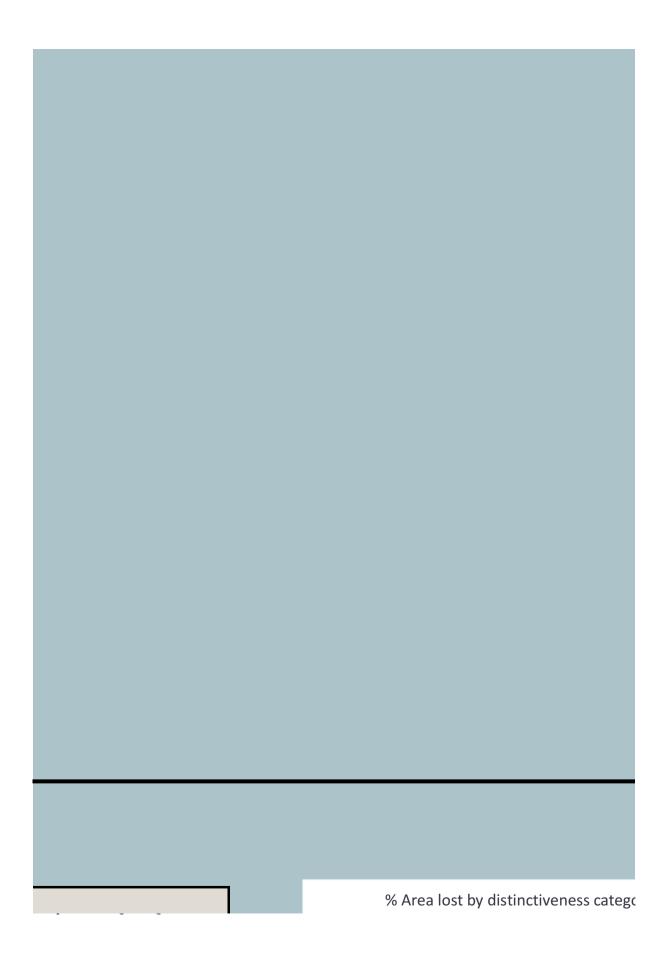
Category	Length lost (KM)
V.High	0
High	0
Medium	0
Low	0

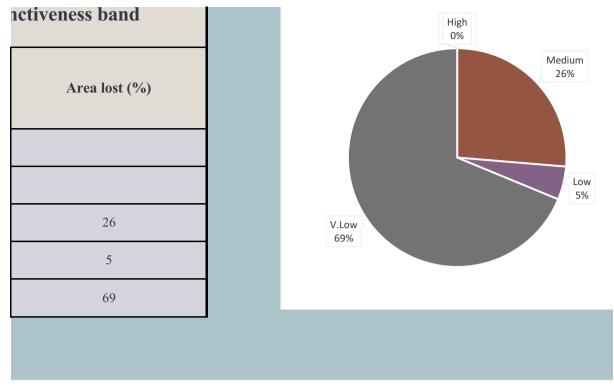
Combined length lost by disti

te Change
Off-site unit change
0.0
0.0
0.0
0.0
0.0

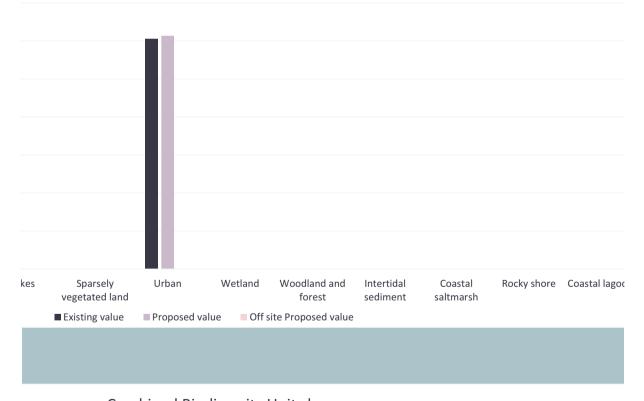


e Change	0.5	
Onsite Unit	0.4	
change	0.3	
0.0	0.2	
0.0	0.1	
0.0	0.0	
0.0	Priority Habitat	Oth
	■ Existing value ■ Prop	osed value



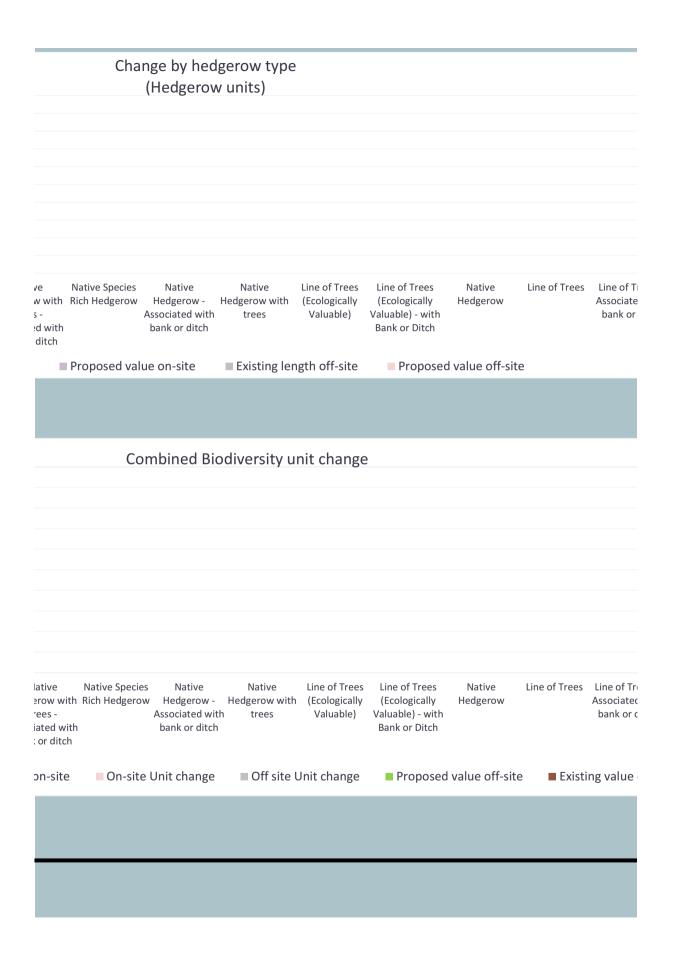


Unit change by habitat group



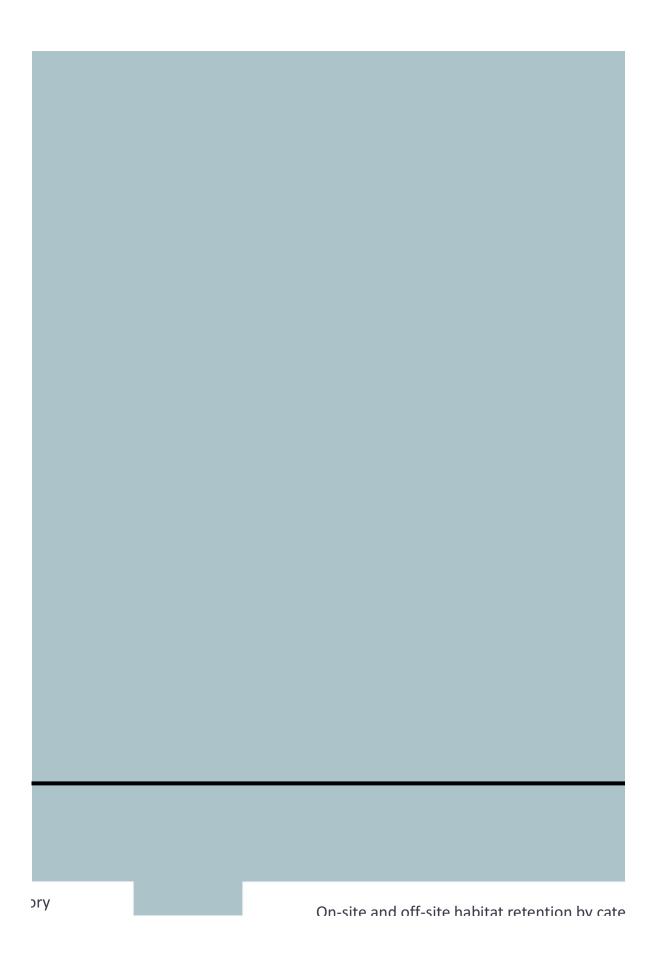
Combined Biodiversity Unit change

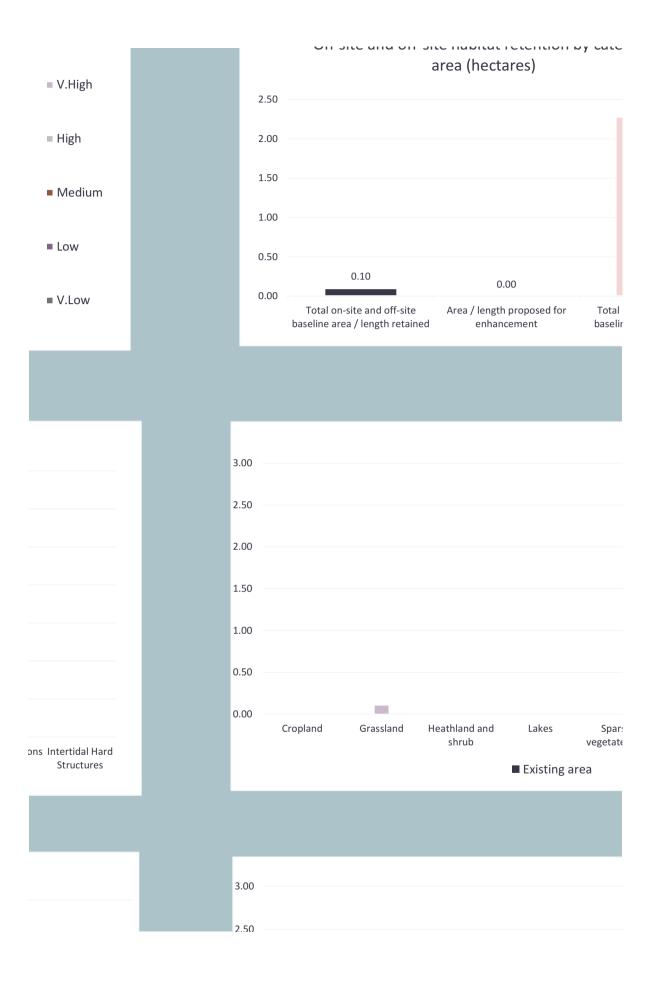
es	Sparsely vegetated land	Urban	Wetland	Woodland and forest	Intertidal sediment	Coastal saltmarsh	Rocky shore	Coastal la
е	Onsite Unit	t change	■ Off-site u	unit change	Off site F	Proposed value	■ Off	-site Existin
inc	tiveness bar	nd	]	Г	% Lengt	th lost by d	listinctiver	iess cat
	Length lost	t (%)						
			-					

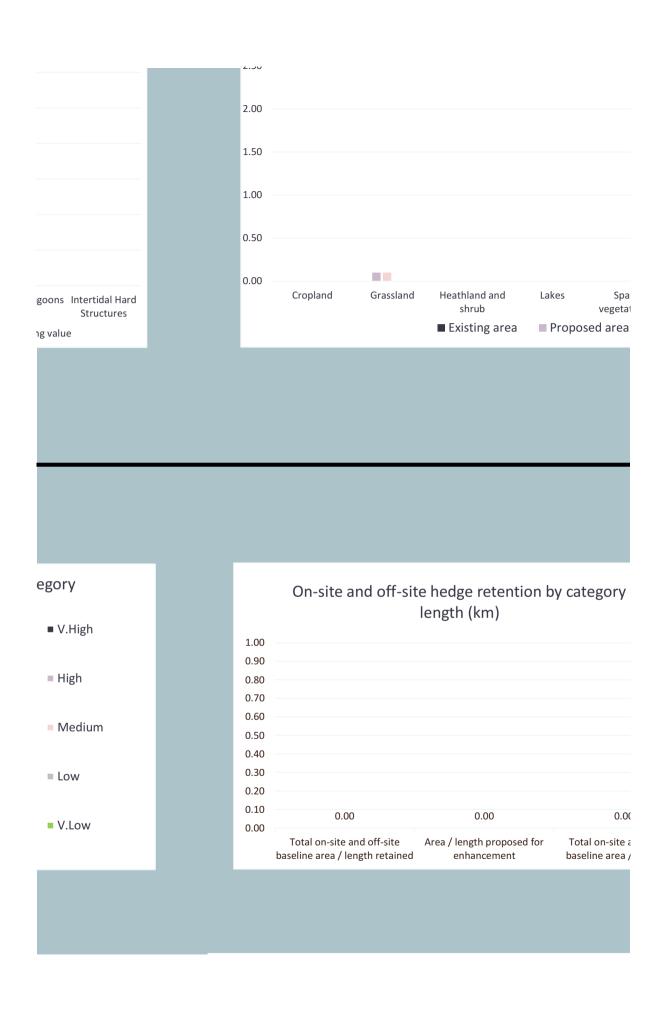


inctiveness	band			% Length lost by d distinctiveness category	у
Length	ı lost (%)				
	Unit change by	y river type			
ier Rivers and Strean	ns	Ditches		Canals	Cu
oposed value	■ Existing value of	ff-site Pro	posed value off-site		
	Combined Bio	diversity Uni	t change		

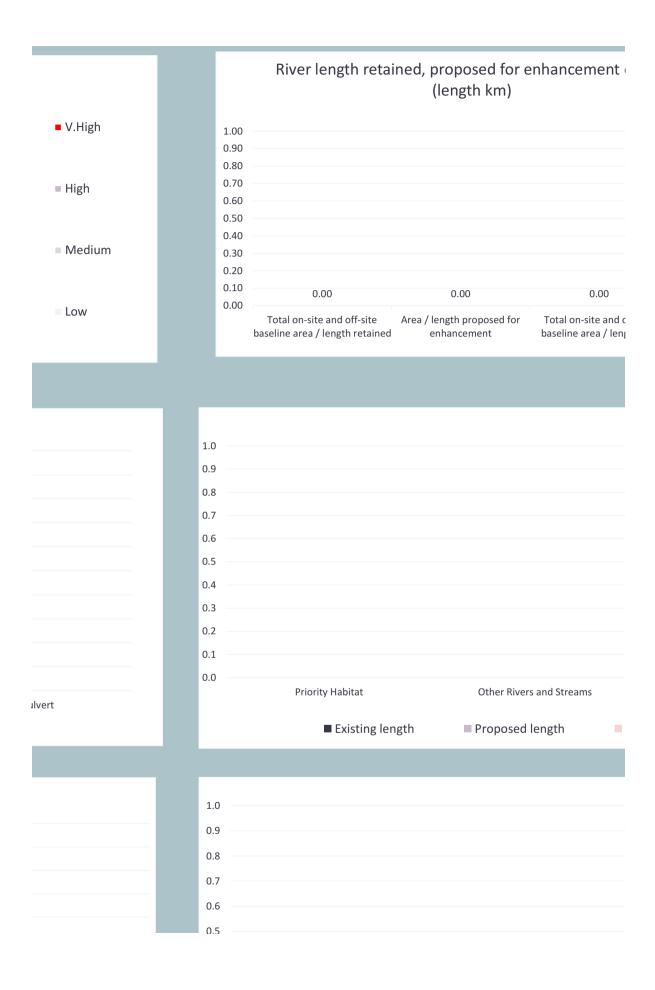
ner Rive	rs and Streams	Ditches	Canals	
11170		Diteries	canais	
.5. 11170	Onsite Unit change	■ Existing value off-site	■ Proposed value off-site	■ Off-site
				■ Off-site



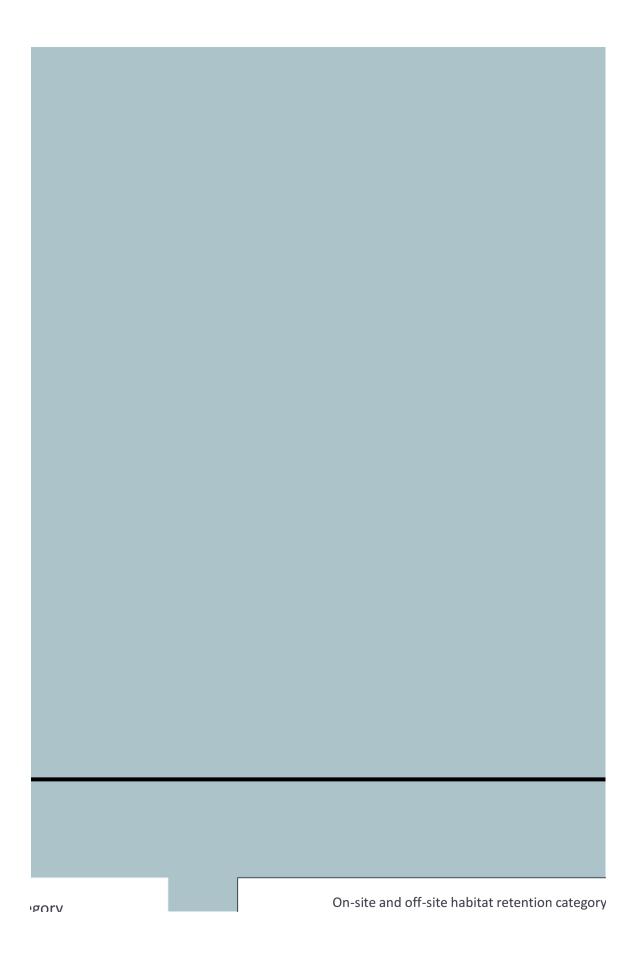


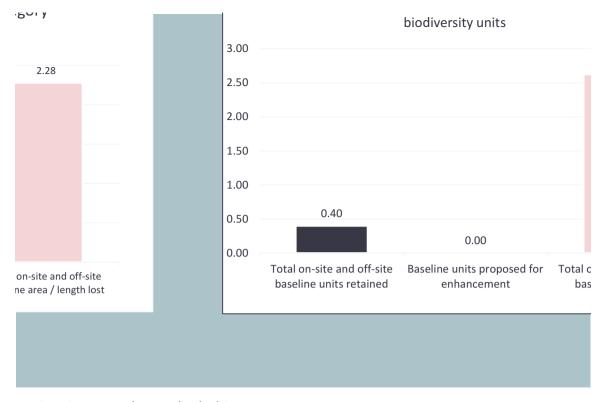


	1.00
	0.90
	0.80
	0.70
	0.60
	0.50
	0.40
	0.30
	0.20
	0.10
	0.00
ees - Hedge d with Ornamental Non ditch Native	Native Species Native Species Native Species Native Hedgerow Native Species Native Nativ
	■ Existing length on-site
	1.00
	1.00
	0.90
	1.00 0.90 0.80
	1.00 0.90 0.80 0.70
	1.00 0.90 0.80 0.70 0.60
	1.00 0.90 0.80 0.70 0.60 0.50
	1.00 0.90 0.80 0.70 0.60 0.50 0.40
	1.00 0.90 0.80 0.70 0.60 0.50
	1.00 0.90 0.80 0.70 0.60 0.50 0.40
	1.00 0.90 0.80 0.70 0.60 0.50 0.40
	1.00 0.90 0.80 0.70 0.60 0.50 0.40 0.30 0.20 0.10 0.00
res - Hedge with Ornamental itch Non Native	1.00 0.90 0.80 0.70 0.60 0.50 0.40 0.30 0.20 0.10



	0.5					
	0.4					
	0.3					
	0.2					
	0.1					
	0.0					
Culvert		F	riority Habitat		Other Rivers and	Streams
						longth
unit change			■ Existing leng	th ■ Pr	oposed length	length
unit change			■ Existing leng	th ■ Pr	oposed length	length
unit change			■ Existing leng	th ■ Pr	oposed length	length
unit change			■ Existing leng	th ■ Pr	oposed length	length
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unit change			■ Existing leng	th ■ Pr	oposed length	length

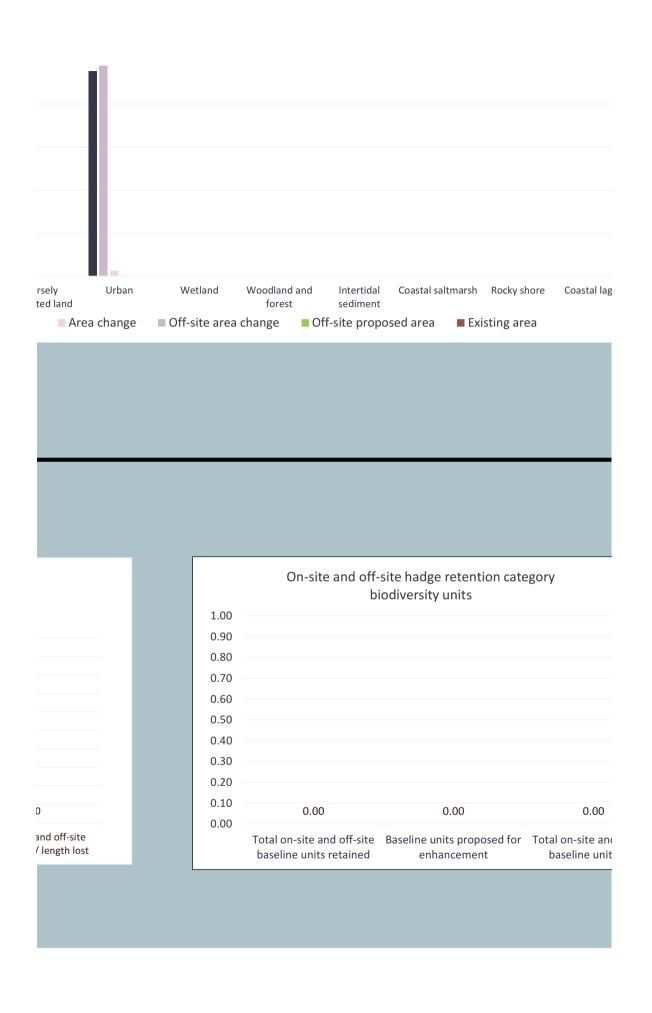




#### On site area change by habitat group



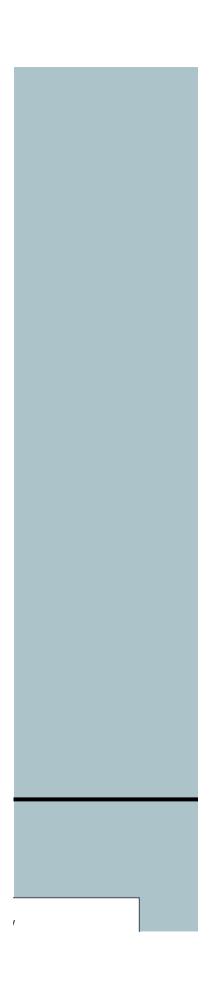
Combined habiat area change

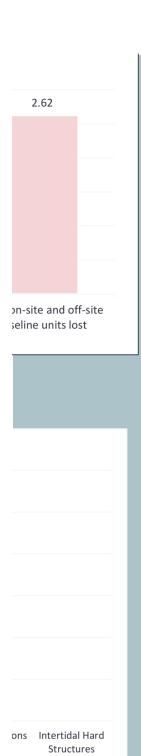


length change by hedge	row length	(km)			
s Native HedgerowNative Hedgerow v - Associated with with trees bank or ditch	Line of Trees (Ecologically Valuable)	Line of Trees (Ecologically Valuable) - with Bank or Ditch	Native Hedgerow		Line of Trees - Associated with Orn bank or ditch
roposed length on-site ■ E	xisting length	off-site	■ Proposed leng	gth off-site	
mbined hedgerow length	change (k	m)			
es Native Hedgerow Native Hedgerov w - Associated with with trees bank or ditch	v Line of Trees (Ecologically Valuable)		ly vith	ow Line of Tree	s Line of Trees - Associated with bank or ditch
)n-site length change ■ Of	ff-site length	change	■ Proposed leng	th off-site	■ Existing lengt

or lost				etention category liversity units)	
		1.00			
		0.90			
		0.80			
		0.70			
		0.60			
		0.50			
		0.40			
		0.30			
		0.20			
		0.10	0.00	0.00	0.00
- ff -:h-		0.00	0.00	0.00	0.00
off-site gth lost			Total on-site and off-site baseline units retained	Baseline units proposed for enhancement	Total on-site ar baseline uni
	Ditches		Canal	s	Culvert
Proposed length			■ Existing length off-site		
Combined r	iver len	gth ch	ange		

change	Ditches ■ Existing length off-site	Canals ■ Proposed length off-site	Culver  ■ Off-site length change

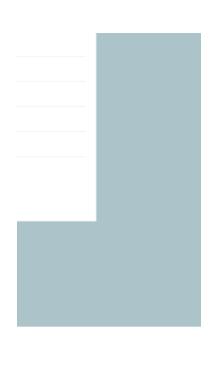




goons .	Intertidal Structu		
d off-s ts lost	ite		

Hedge	
amental Non	
Native	
Hadaa	
Hedge Ornamental Non	
Native	
h off-site	

nd off-site	
its lost	



Condense / Show C

Main Menu

Ref	Broad Habitat
1	Urban
2	Urban
3	Urban
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5	
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## **Haven Banks Retail Park**

## **A-1 Site Habitat Baseline**

olumns	Condense / Show Rows
	Instructions

## Habitats and areas

Habitat Type	Area (hectares)	
Developed land; sealed surface	1.568	
Introduced shrub	0.112	
Urban Tree	0.7	

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Total habitat area	2.38

Distinctiveness		Condition	
Distinctiveness	Score	Condition	Score
V.Low	0	N/A - Other	0
Low	2	Condition Assessment N/A	1
Medium	4	Poor	1

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Strategic significance				
Strategic significance	Strategic significance	Strategic Significance multiplier		
Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1		
Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1		
Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1		

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Suggested action to address habitat	<b>Ecological baseline</b>		
Suggested action to address habitat losses	Total habitat units		
Compensation Not Required	0.00		
Same distinctiveness or better habitat required ≥	0.22		
Same broad habitat or a higher distinctiveness habitat required (≥)	2.80		

		Retention ca
Area retained	Area enhanced	Baseline units retained
0	0	0.00
0	0	0.00
0.1	0	0.40

-		1	

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	3.02		0.10	0.00	0.40
	3.02		0.10	0.00	0.40
		1			
			Total area	lost (excludin	g area of Urb
				Gree	n walls)
					,

ategory biodiv	ersity value		Bespoke
Baseline units enhanced	Area habitat lost	Units lost	compensation agreed for unacceptable losses
0.00	1.57	0.00	
0.00	0.11	0.22	
0.00	0.60	2.40	

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0.00	2.28	2.62	
an trees and	1.68		

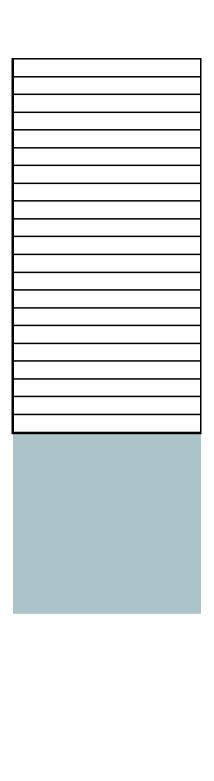
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Assessor comments	
xisting buildings and hardstanding.	
xisting introduced shrub within the carpark and margin of the.	e
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Condense / Sh  Main N  Broad Habitat  Urban  Urban  Urban  Grassland  Urban  Grassland  Urban	
Broad Habitat  Urban  Grassland  Urban  Urban  Grassland	
Broad Habitat  Urban  Grassland  Urban  Urban  Grassland	Condense / Sh
Broad Habitat  Urban  Grassland  Urban  Urban  Grassland	
Urban  Grassland  Urban  Urban  Grassland	Mani P
Urban  Grassland  Urban  Urban  Grassland	
Grassland  Urban  Urban  Grassland	Broad Habitat
Urban Urban Grassland	Urban
Urban Grassland	Grassland
Grassland	Urban
	Urban
Urban	Grassland
	Urban







## **Haven Banks Retail Park**

## **A-2 Site Habitat Creation**

ow Columns

Condense / Show Rows

Menu

Instructions

Proposed habitat	Area (hectares)
Developed land; sealed surface	1.31
Modified grassland	0.07
Introduced shrub	0.22
Urban Tree	0.77
Other neutral grassland	0.03
Other green roof	0.045
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Total habitat area	2.45
Site Area (Excluding area of Urban trees and Green walls)	1.68

Distinctiveness		Condition	
Distinctiveness	Score	Condition	Score
V.Low	0	N/A - Other	0
Low	2	Moderate	2
Low	2	Condition Assessment N/A	1
Medium	4	Poor	1
Medium	4	Poor	1
Low	2	Condition Assessment N/A	1

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Strategic significance		
Strategic significance	Strategic significance	Strategic position multiplier
Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1
Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1
Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1
Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1
Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1
Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1

Post development/ post intervention habitats

1 ost development post met vention napitats		
Standard time to target condition/years	Habitat created in advance/years	Delay in starting habitat creation/years
0	0	0
4	0	0
1	0	0
10	0	0
2	0	0
1	0	0

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Temporal multiplier		
Standard or adjusted time to target condition	Final time to target condition/years	Final time to target multiplier
Standard time to target condition applied	0	1.000
Standard time to target condition applied	4	0.867
Standard time to target condition applied	1	0.965
Standard time to target condition applied	10	0.700
Standard time to target condition applied	2	0.931
Standard time to target condition applied	1	0.965

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Difficulty multipliers			
Applied difficulty multiplier	Final difficulty of creation	Difficulty multiplier applied	
Standard difficulty applied	Medium	0.67	
Standard difficulty applied	Low	1	
Standard difficulty applied	Low	1	
Standard difficulty applied	Low	1	
Standard difficulty applied	Low	1	
Standard difficulty applied	Low	1	
	Standard difficulty applied  Standard difficulty applied  Standard difficulty applied  Standard difficulty applied  Standard difficulty applied	Applied difficulty multiplier  Standard difficulty applied  Medium  Standard difficulty applied  Low  Standard difficulty applied  Low  Standard difficulty applied  Low  Standard difficulty applied  Low  Standard difficulty applied  Low	

Total Units		
Total Units		
		<b>Total Units</b>

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Habitat units delivered	Assessor comments
0.00	Proposed buildings and hardstanding.
0.24	Proposed modified (amenity) grassland planting.
0.42	Proposed introudced shrub planting.
2.16	Area calculated using the urban tree helper.
0.11	Proposed neutral (wildflower) planting.
0.09	Proposed vegetated roof planting.

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Reviewer comments