
From: Daniel Finegan <Daniel.Finegan@sefton.gov.uk>
Sent: 30 May 2023 13:18
To: Quinn, Mark
Cc: Towers, James
Subject: External Mail: FW: Former Contract Chemicals Site Penrhyn Road Knowsley Business Park Knowsley L34 9HY - BNG update 26.5.23
Attachments: 10585-E-03 Habitat Retention 26.05.23.pdf; 10585-E-01 Habitat Baseline 26.05.23.pdf; 10585-E-02 Habitat Proposed 26.05.23.pdf; 10585 - Former Chemical Works - Biodiversity Metric 3.0 Auditing and accounting for biodiversity Calculation tool Rev 24.05.23.xlsm

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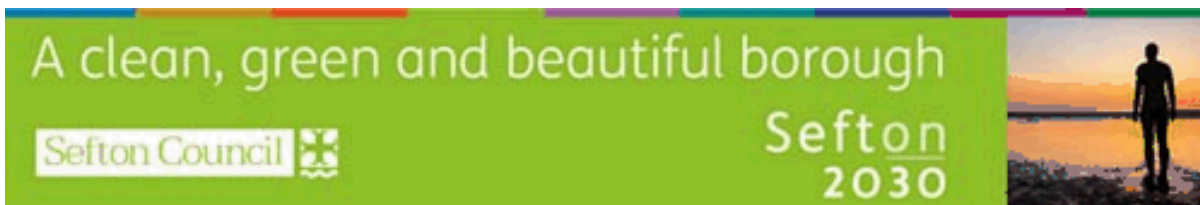
Hi both,

Further to your comments last week James, the ecological consultant has provided the attached.

Kind regards,

Daniel Finegan
Ecologist – Merseyside EAS

📞 0151 934 4951 ✉️ Daniel.Finegan@sefton.gov.uk
🌐 www.meas.org.uk



From: Ed J. Feetham <ed.feetham@fpcr.co.uk>
Sent: Friday, May 26, 2023 3:36 PM
To: Daniel Finegan <Daniel.Finegan@sefton.gov.uk>
Cc: Claire E. Heeks <claire.heeks@fpcr.co.uk>
Subject: RE: Former Contract Chemicals Site Penrhyn Road Knowsley Business Park Knowsley L34 9HY - BNG update 26.5.23

Hi Daniel

Apologies for the delay on this, I misunderstood an issue and was expecting some possible change to layout but I was mistaken.

I've attached the revised draft of the BNG for your review and comment. This is predicated on a number of things as discussed, in most cases discussed in our meetings;

- firstly the reclassification of the bare ground to artificial unvegetated unsealed surface which after review we feel is more accurate to the site baseline. As you can see this has dramatically improved the score.
- secondly the removal of urban trees from most of the metric as these will be placed over woody habitats so cannot be counted in the metric (if they were over grassland that would be possible) which has removed

their value/contribution to the metric. However the trees themselves are still on landscape plans and will still be provided.

- thirdly, the BNG expert here considers we can make the large area of grassland along the easement to the west attain good condition with appropriate management.
- finally, the small area of scrub/woodland to the north is counted as being on-site in this metric.

I'm back Tuesday afternoon, any questions or queries do let me know. If the query is RE planting mixes I'm sure Claire can assist on that front.

Thanks

Ed Feetham CIEEM | Principal Ecologist
BSc(Hons) Environmental Conservation

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Office: 01509 672772. Mobile: 07966 827946. www.fpcr.co.uk

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Myself and the team are doing a 25km walk for Mental Health on the 8th July 2023. If you want to support the walk, please click on this link. Thank you.

https://www.justgiving.com/fundraising/fpcrmentalhealth23?utm_source=copyLink&utm_medium=fundraising&utm_content=fpcrshare&utm_term=c03d087f1ddc4ee7af7ba6e91a6dc00d



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Unit 8 Dunley Hill Court, Dunley Hill Farm, Ranmore, Dorking. RH5 6SX. 01483 282523
The National Agri-Food Innovation Campus, Sand Hutton, York, YO41 1LZ. 01904 406112

Please note, I am currently working 9 days per fortnight and am typically away one in every two Mondays.



Job Ref:

From: Ed J. Feetham

Sent: Friday, April 28, 2023 1:17 PM

To: 'Daniel Finegan' <Daniel.Finegan@sefton.gov.uk>

Cc: Claire E. Heeks <claire.heeks@fpcr.co.uk>

Subject: RE: Former Contract Chemicals Site Penrhyn Road Knowsley Business Park Knowsley L34 9HY - BNG update

Perfect, thank you. I'll send an invite shortly

Kind regards

Ed Feetham CIEEM | Principal Ecologist
BSc(Hons) Environmental Conservation

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Job Ref:

From: Daniel Finegan <Daniel.Finegan@sefton.gov.uk>

Sent: Friday, April 28, 2023 12:32 PM

To: Ed J. Feetham <ed.feetham@fpcr.co.uk>

Cc: Claire E. Heeks <claire.heeks@fpcr.co.uk>

Subject: RE: Former Contract Chemicals Site Penrhyn Road Knowsley Business Park Knowsley L34 9HY - BNG update

Hi Ed,

Yes that's fine thank you.

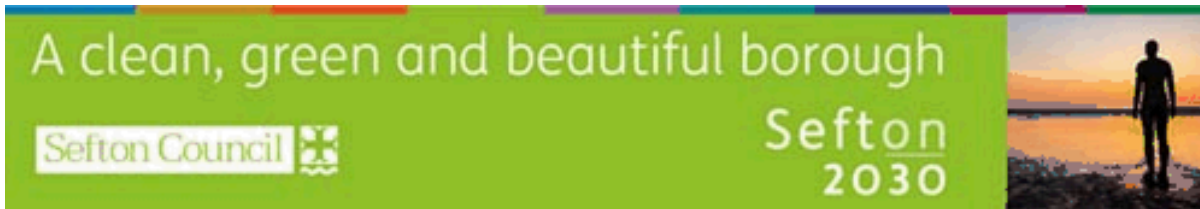
Kind regards,

Daniel Finegan
Ecologist – Merseyside EAS

☎ 0151 934 4951 ✉ Daniel.Finegan@sefton.gov.uk

🌐 www.meas.org.uk





From: Ed J. Feetham <ed.feetham@fpcr.co.uk>

Sent: 28 April 2023 12:08

To: Daniel Finegan <Daniel.Finegan@sefton.gov.uk>

Cc: Claire E. Heeks <claire.heeks@fpcr.co.uk>

Subject: RE: Former Contract Chemicals Site Penrhyn Road Knowsley Business Park Knowsley L34 9HY - BNG update

Hi Daniel

Is 2pm next Friday ok? We can do it on teams

Kind regards

Ed Feetham CIEEM | Principal Ecologist
BSc(Hons) Environmental Conservation

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Job Ref:

From: Daniel Finegan <Daniel.Finegan@sefton.gov.uk>

Sent: Thursday, April 27, 2023 2:33 PM

To: Ed J. Feetham <ed.feetham@fpcr.co.uk>

Cc: Claire E. Heeks <claire.heeks@fpcr.co.uk>

Subject: RE: Former Contract Chemicals Site Penrhyn Road Knowsley Business Park Knowsley L34 9HY - BNG update

Hello again Ed,

Thanks for the meeting.

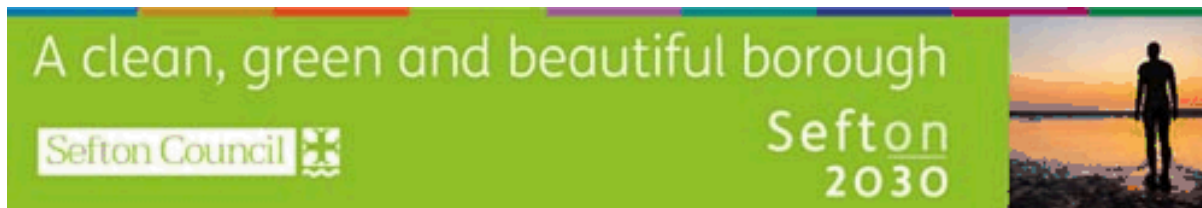
That's great. I look forward to speaking again soon.

Currently next Wednesday morning and any time Friday are free?

Kind regards,

Daniel Finegan
Ecologist – Merseyside EAS

☎ 0151 934 4951 ✉ Daniel.Finegan@sefton.gov.uk
🌐 www.meas.org.uk



From: Ed J. Feetham <ed.feetham@fpcr.co.uk>

Sent: 27 April 2023 14:28

To: Daniel Finegan <Daniel.Finegan@sefton.gov.uk>

Cc: Claire E. Heeks <claire.heeks@fpcr.co.uk>

Subject: RE: Former Contract Chemicals Site Penrhyn Road Knowsley Business Park Knowsley L34 9HY - BNG update

Hi Daniel

To confirm following our chat, that I have prepared a new draft of the metric and will have it checked with our BNG seniors and to you ASAP.

I will also shortly be forwarding the planting queries to landscape and we will sort a discussion between myself, you and landscape as soon as is practical. If you can let me know if you have any availability Wednesday to Friday next week (or the week after) we can book something in.

Once again apologies for the delay in getting back to your initial request.

Kind regards

Ed Feetham CIEEM | Principal Ecologist
BSc(Hons) Environmental Conservation

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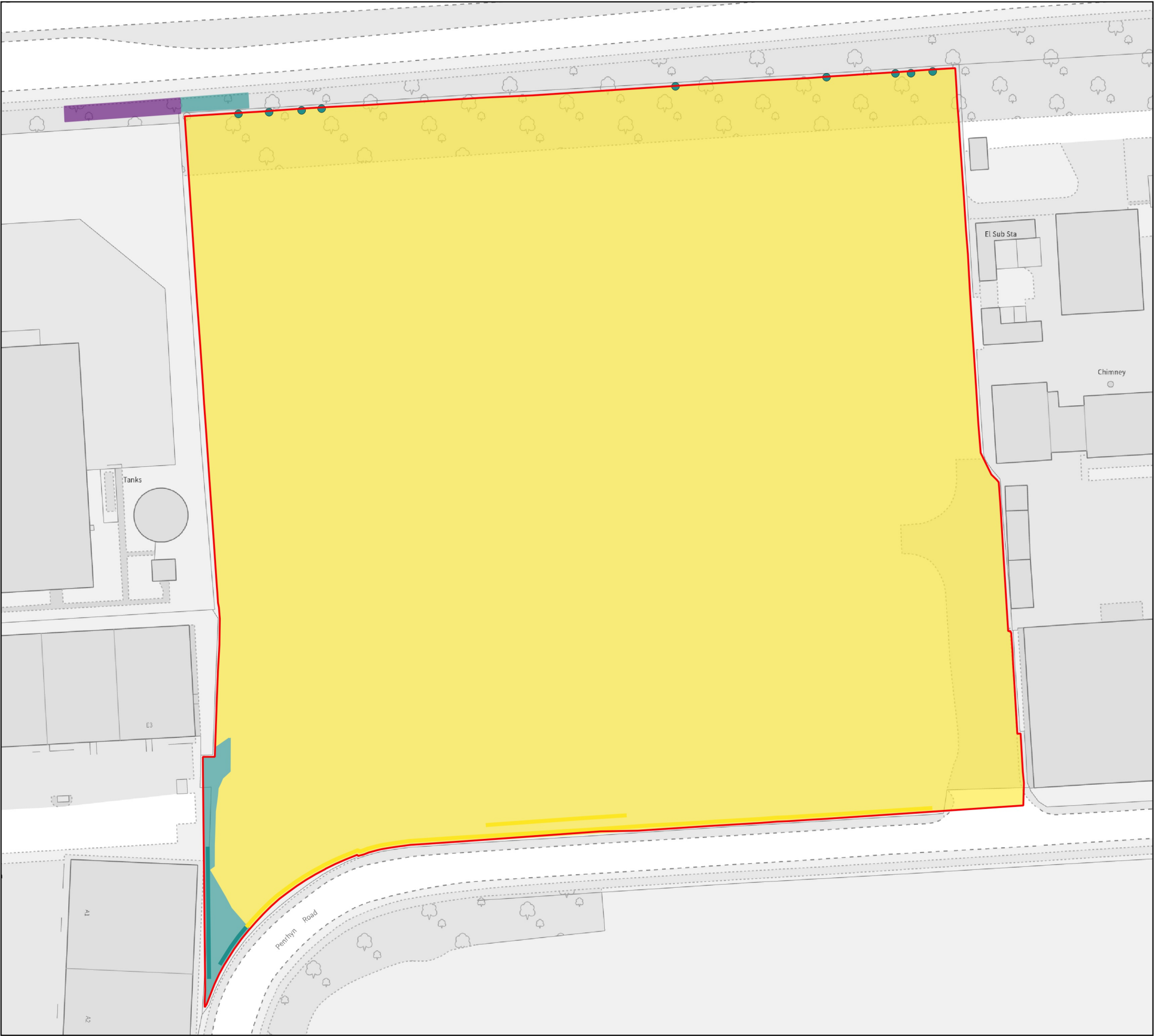
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Key

 **Site Boundary**

Habitats Retention

 **Lost**

 **Retained**

 **Enhanced**

Hedgerows Retention

 **Lost**

 **Retained**

Urban Trees Retention

 **Retained**



client
Knowsley Redevelopments Ltd
project
Penrhyn Road,
Knowsley Industrial Estate
drawing title
Habitat Retention

scale @ A3
1:1,000

drawn
IJ/ RAM

issue date
26/5/2023



drawing / figure number
Figure 3



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Key

 **Site Boundary**

Habitats Baseline

 **Artificial unvegetated, unsealed surface**

 **Developed land; sealed surface**

 **Introduced shrub**

 **Mixed scrub**

 **Modified grassland**

 **Other woodland; mixed**

 **Ruderal/Ephemeral**

Hedgerow Baseline

 **Line of Trees (w1g6NE2)**

Urban Trees Baseline

 **Existing Medium**





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Key

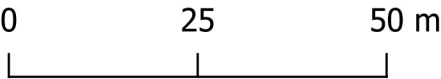
Site Boundary

Habitats Proposed

- Developed land; sealed surface
- Mixed scrub
- Modified grassland
- Other neutral grassland
- Other woodland; broadleaved
- Other woodland; mixed

Hedgerows Proposed

Line of Trees (w1g6NE2)





client
Knowsley Redevelopments Ltd

project
Penrhyn Road,
Knowsley Insdustrial Estate

drawing title
Proposed Habitats

scale @ A3
1:1,000

drawn
IJ/ RAM

issue date
26/5/2023



Figure 2

The Biodiversity Metric 3.0

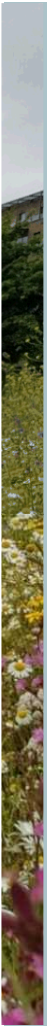
auditing and accounting for biodiversity

Calculation Tool

[Open Tool](#)

ISBN: 978-1-78354-781-4





The Biodiversity Metric

Start

Project details

Planning authority:	
Project name:	
Applicant:	
Application type:	
Planning application reference:	
Assessor:	
Reviewer:	
Metric version:	
Assessment date:	
Planning authority reviewer:	

Cell style conventions

On-site baseline map

Insert

Off-site baseline map

Insert

ic 3.0 - Calculation Tool

t page

Enter data
Automatic lookup
Result

Instructions

Main menu

Results

View all

Reset view

On-site post intervention map

Insert

Off-site post intervention map

Insert





The Biodiversity Metric 3.0 - Instructions

Double click the front page

Start page

Main menu

Natural England Joint Publication

The Biodiversity

Auditing and account

Calculati Short c

First published July 2021

- Calculation Tool

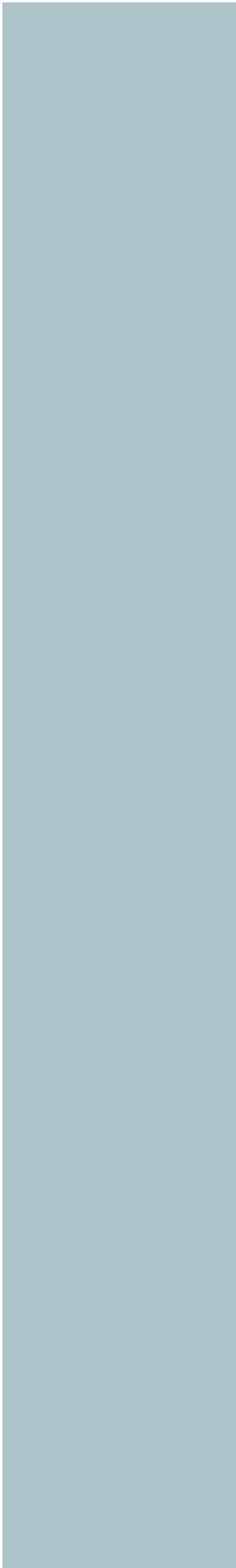
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JP029

ity Metric 3.0

ating for biodiversity

**on Tool:
Guide**



The Biodiversity Metric

Main

Start page

Instructions

Start here

1



2

On-site baseline

A-1 On-site
habitat
baseline

B-1
On-site hedge
baseline

C-1
On-site river
baseline

On-site post development

A-2 Habitat
creation

A-3 Habitat
enhancement

B-2 Hedgerow
creation

B-3 Hedgerow
enhancement

C-2 River creation

C-3 River
enhancement

ic 3.0 - Calculation Tool

n menu

U
Tree size
Small
Medium
Large
Total

Technical data

Results



3



Off-site baseline

D-1
Off-site
habitat baseline

E-1
Off-site hedge
baseline

F-1
Off-site river
baseline

Off-site

D-2 Off-site habi
creation

E-2 Off-site hed
creation

F-2 Off-site river
creation

Urban tree helper	
Tree number	Area
	0.0000
	0.0000
	0.0000
0.00	0.0000



e post development



The Biodiversity Metric 3.0 - Calculators

Start page

[Return to start
page](#)

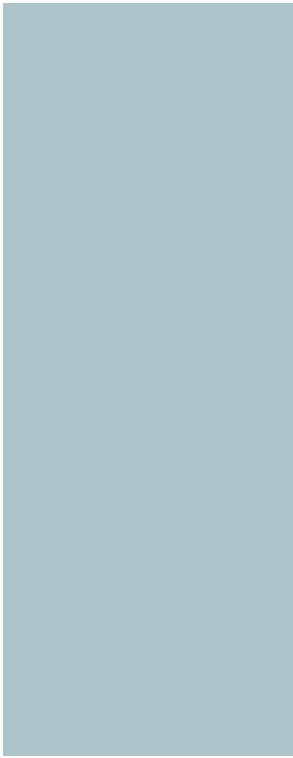
[Headline results](#)

[Detailed results](#)

ulation Tool

alts

Habitat trading
summary



Headline Results

[Return to
results menu](#)

On-site baseline

Habitat units

Hedgerow units

River units

On-site post-intervention

(Including habitat retention, creation & enhancement)

Habitat units

Hedgerow units

River units

On-site net % change

(Including habitat retention, creation & enhancement)

Habitat units

Hedgerow units

River units

Off-site baseline

Habitat units

Hedgerow units

River units

Off-site post-intervention

(Including habitat retention, creation & enhancement)

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 Tr

2.79
0.00
0.00

2.90
0.00
0.00

3.93%
0.00%
0.00%

0.00
0.00
0.00

0.00
0.00
0.00

0.11
0.00
0.00
3.93%
0.00%
0.00%
ading Summary





Detailed Results

Summary Figures

Net project biodiversity
(including all on-site & off-site habitat re

Total project biodiversity
(including all On-site & Off-site Habitat Creation

Combined

Total area / length

Total units

Area / length retained

Units Retained

Area / length proposed for enhancement

Baseline units proposed for enhancement

Area / length lost

Units lost

Area habitats

On site ch

Area Habitats	
	Habitat group
	Cropland
	Grassland
	Heathland and shrub
	Lakes
	Sparsely vegetated land
	Urban
	Wetland
	Woodland and forest
	Intertidal sediment
	Coastal saltmarsh
	Rocky shore
	Coastal lagoons
	Intertidal Hard Structures
Area Habitats	Off site ch
	Habitat group
	Cropland
	Grassland
	Heathland and shrub
	Lakes
	Sparsely vegetated land
	Urban
	Wetland
	Woodland and forest
	Intertidal sediment
	Coastal saltmarsh
	Rocky shore
	Coastal lagoons
	Intertidal Hard Structures
	Combined on site and

Area Habitats	Habitat group	
	Cropland	
	Grassland	
	Heathland and shrub	
	Lakes	
	Sparsely vegetated land	
	Urban	
	Wetland	
	Woodland and forest	
	Intertidal sediment	
	Coastal saltmarsh	
	Rocky shore	
	Coastal lagoons	
	Intertidal Hard Structures	
Hedgerows and Lines of Trees		
	Hedgerows and lines of trees	
	On site	
	Hedgerow type	
	Native Species Rich Hedgerow with trees - Associated with bank or ditch	
	Native Species Rich Hedgerow with trees	
	Native Species Rich Hedgerow - Associated with bank or ditch	
	Native Hedgerow with trees - Associated with bank or ditch	
	Native Species Rich Hedgerow	
	Native Hedgerow - Associated with bank or ditch	
	Native Hedgerow with trees	
	Line of Trees (Ecologically Valuable)	
	Line of Trees (Ecologically Valuable) - with Bank or Ditch	
	Native Hedgerow	
	Line of Trees	
	Line of Trees - Associated with bank or ditch	
	Hedge Ornamental Non Native	

Hedgerows and Lines of Trees	
	Off site
	Hedgerow type
	Native Species Rich Hedgerow with trees - Associated with bank or ditch
	Native Species Rich Hedgerow with trees
	Native Species Rich Hedgerow - Associated with bank or ditch
	Native Hedgerow with trees - Associated with bank or ditch
	Native Species Rich Hedgerow
	Native Hedgerow - Associated with bank or ditch
	Native Hedgerow with trees
	Line of Trees (Ecologically Valuable)
	Line of Trees (Ecologically Valuable) - with Bank or Ditch
	Native Hedgerow
	Line of Trees
	Line of Trees - Associated with bank or ditch
	Hedge Ornamental Non Native
	Combined on and
	Hedgerow type
	Native Species Rich Hedgerow with trees - Associated with bank or ditch
	Native Species Rich Hedgerow with trees
	Native Species Rich Hedgerow - Associated with bank or ditch
	Native Hedgerow with trees - Associated with bank or ditch
	Native Species Rich Hedgerow
	Native Hedgerow - Associated with bank or ditch
	Native Hedgerow with trees
	Line of Trees (Ecologically Valuable)
	Line of Trees (Ecologically Valuable) - with Bank or Ditch
	Native Hedgerow
	Line of Trees
	Line of Trees - Associated with bank or ditch
	Hedge Ornamental Non Native

Rivers and Streams	Rivers and Streams	
	On site	
	River type	
	Priority Habitat	
	Other Rivers and Streams	
	Ditches	
	Canals	
	Culvert	
Rivers and Streams	Off site	
	River type	
	Priority Habitat	
	Other Rivers and Streams	
	Ditches	
	Canals	
	Culvert	
	Combined on a	

Rivers and Streams	
	River type
	Priority Habitat
	Other Rivers and Streams
	Ditches
	Canals
	Culvert

Return to results menu

ty units (retention/creation)	<i>Habitat units</i>
	<i>Hedgerow units</i>
	<i>River units</i>

r % change (+ Retained Habitats)	<i>Habitat units</i>
	<i>Hedgerow units</i>
	<i>River units</i>

habitat retention and enhancement

	Habitats	Hedgerows
	3.75	0.00
	2.79	0.00
	0.04	0.00
	0.18	0.00
	0.01	0.00
	0.05	0.00
	3.71	0.00
	2.57	0.00

ange by broad habitat type

Baseline		Post development on site		Onsite
Existing area	Existing value	Proposed area	Proposed value	Area change
0.00	0.00	0.00	0.00	0.00
0.11	0.21	0.23	1.57	0.12
0.08	0.32	0.13	0.77	0.05
0.00	0.00	0.00	0.00	0.00
0.05	0.09	0.00	0.00	-0.05
3.26	0.02	3.29	-0.02	0.03
0.00	0.00	0.00	0.00	0.00
0.27	2.15	0.11	0.56	-0.16
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	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 broad habitat type

Baseline		Post development Off-site		Off-site
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
0.00	0.00	0.00	0.00	0.00

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d off site change by broad habitat type

Baseline	On-site and Off-site post development	Combination
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change by hedgerow type

Off site baseline		Post development off site		Off site
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
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
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00

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

0.11
0.00
0.00

3.93%
0.00%
0.00%

Rivers
0.00
0.00

0.00
0.00

0.00
0.00

0.00
0.00

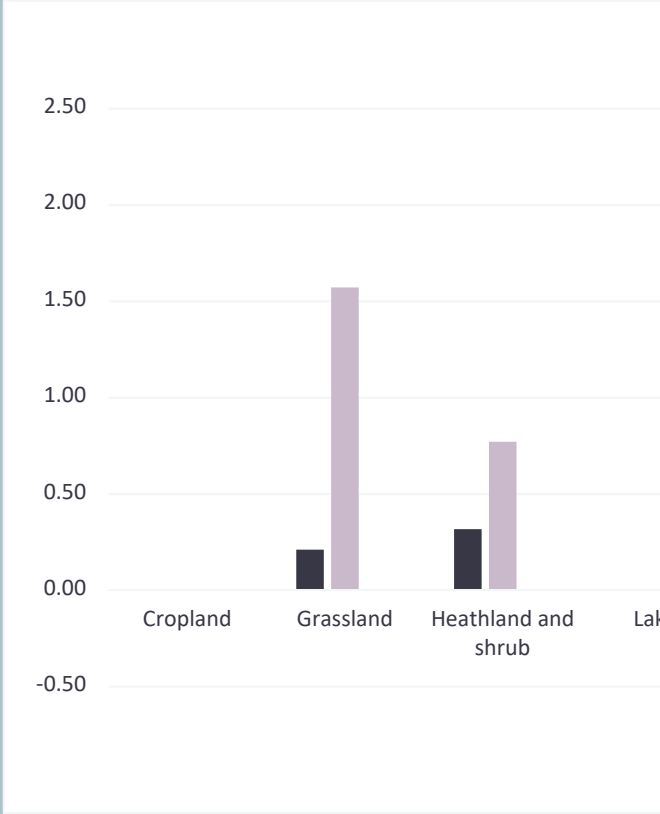
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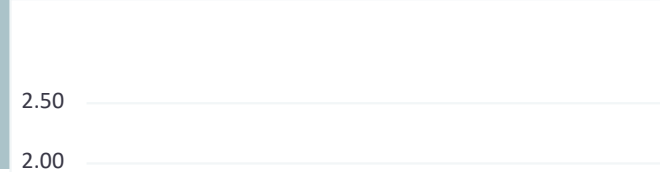
Onsite Unit change
0.00
1.36
0.45
0.00
-0.09
-0.04
0.00
-1.59
0.00
0.00
0.00
0.00
0.00

Combined area lost by distribution	
Category	Area lost (hectares)
V.High	0
High	0
Medium	0.2987
Low	0.1601
V.Low	3.2469

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



Combined change



Proposed value
0.00
1.36
0.45
0.00
-0.09
-0.04
0.00
-1.59
0.00
0.00
0.00
0.00
0.00
0.00



Change
On-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

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

Value Change
Off site Unit change
0.00
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0.00



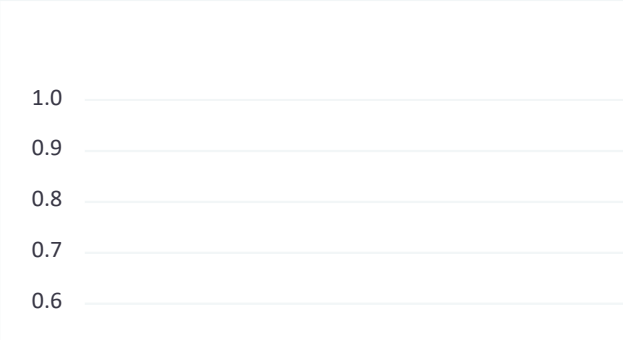
Value Change
Onsite Unit change
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Change
Onsite Unit change
0.0
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0.0

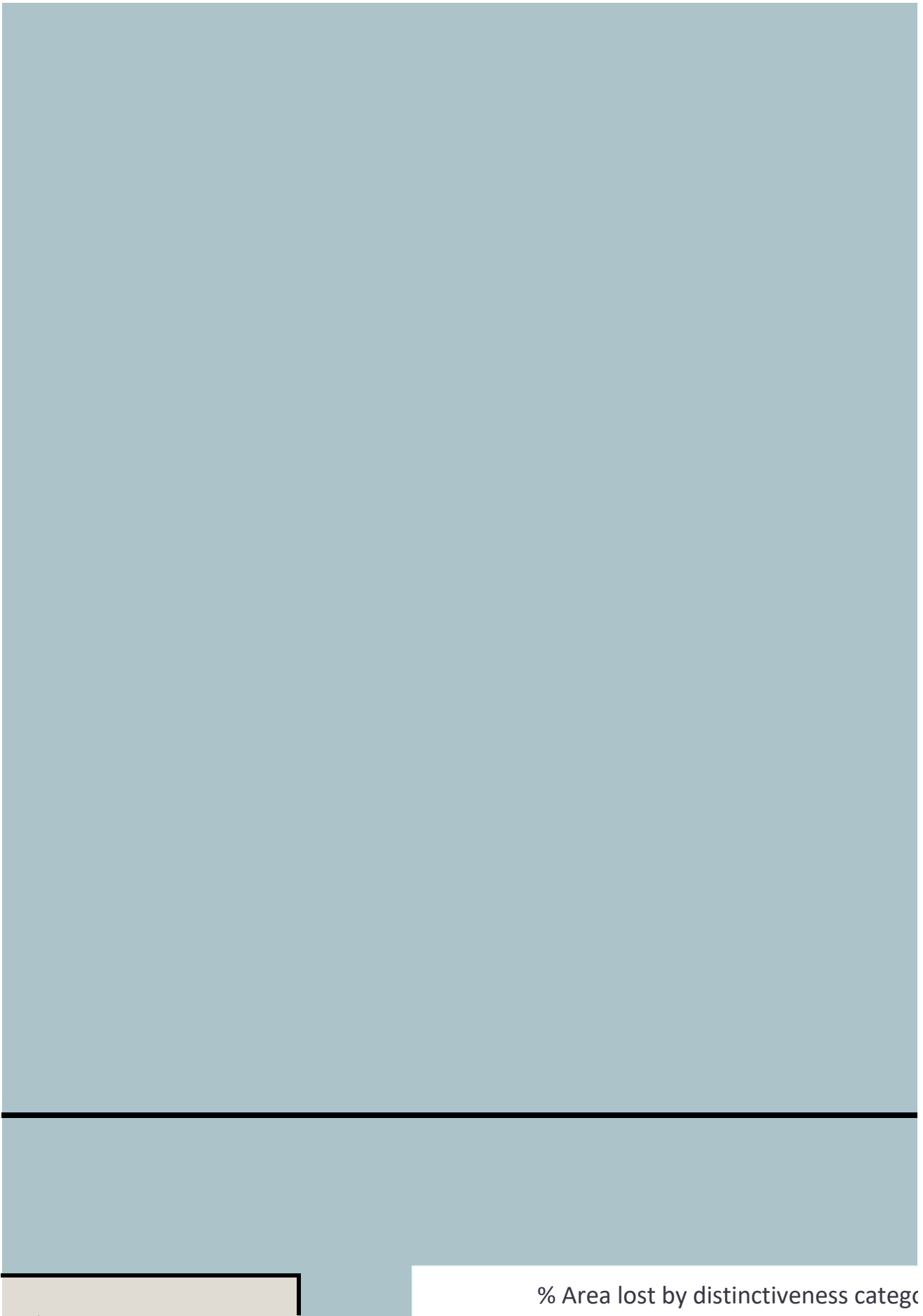
Combined length lost by distribution	
Category	Length lost (KM)
V.High	0
High	0
Medium	0
Low	0

Change
Off-site unit change
0.0
0.0
0.0
0.0
0.0

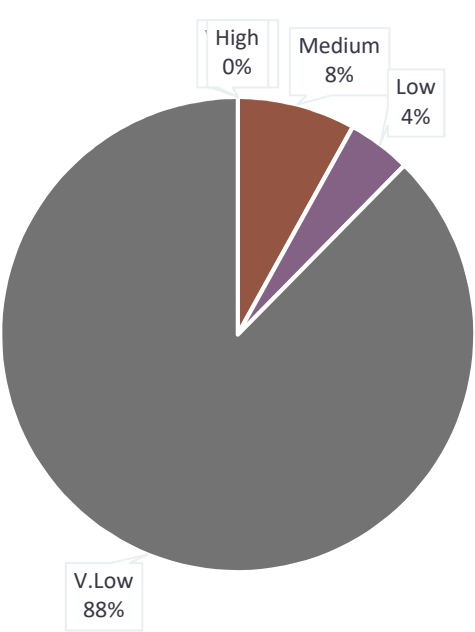
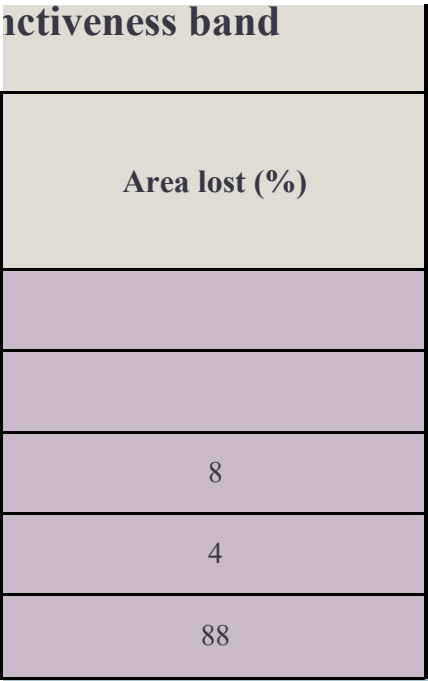


Change
Onsite Unit change
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0.0
0.0
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0.0

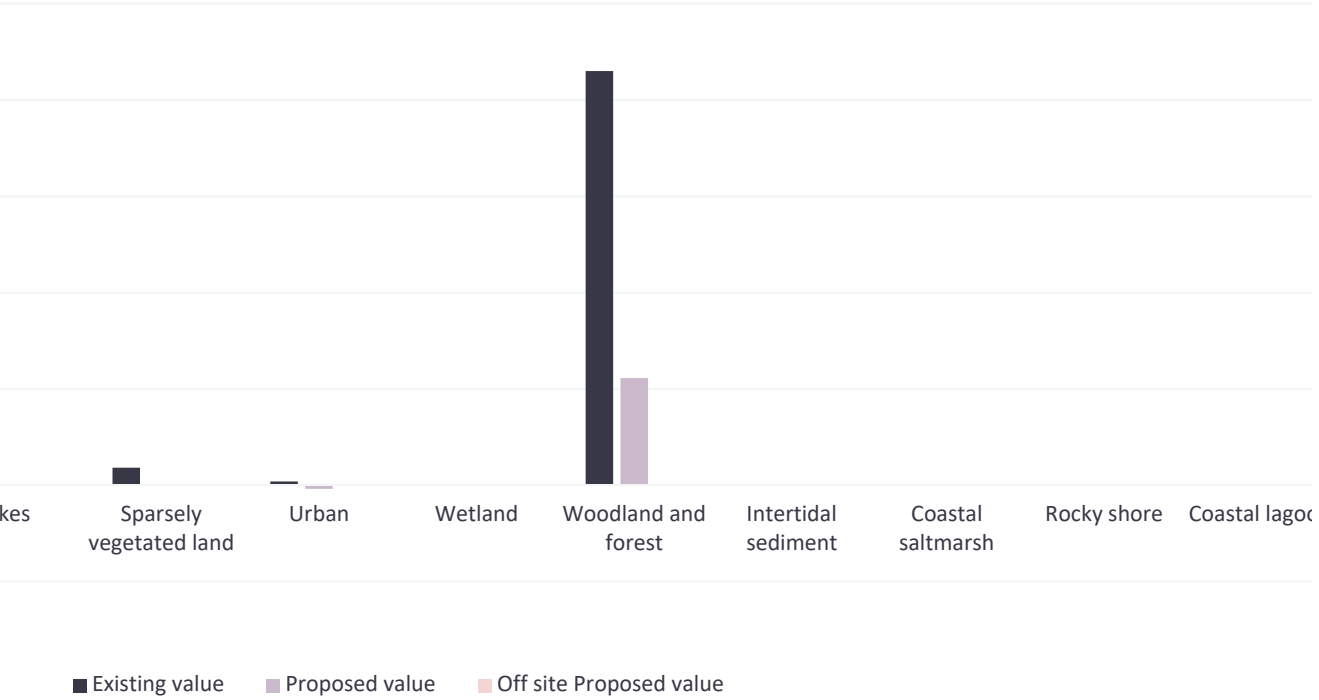




% Area lost by distinctiveness category

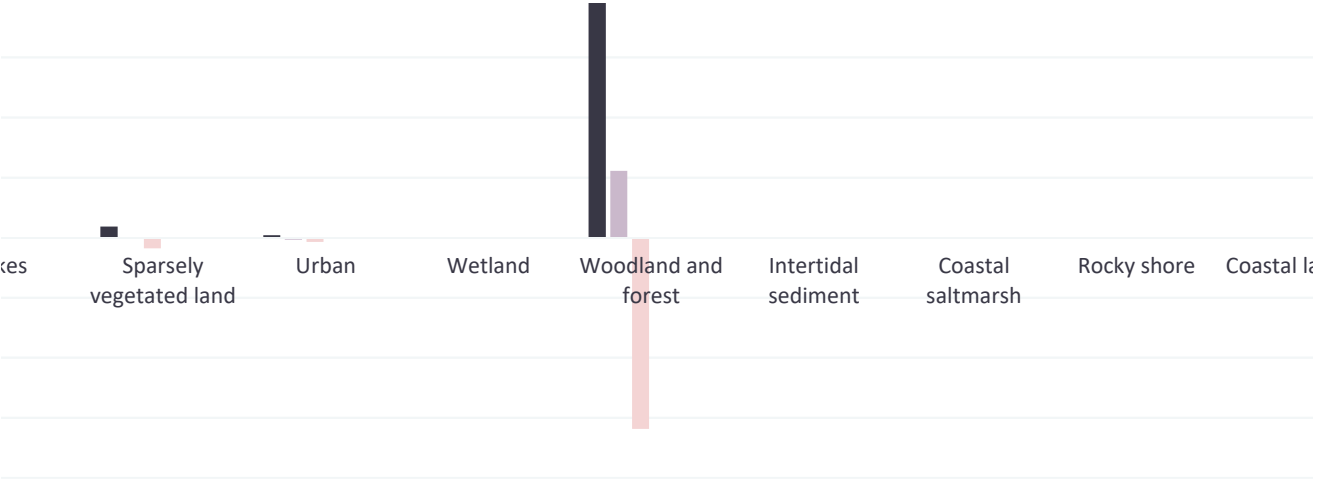


Unit change by habitat group



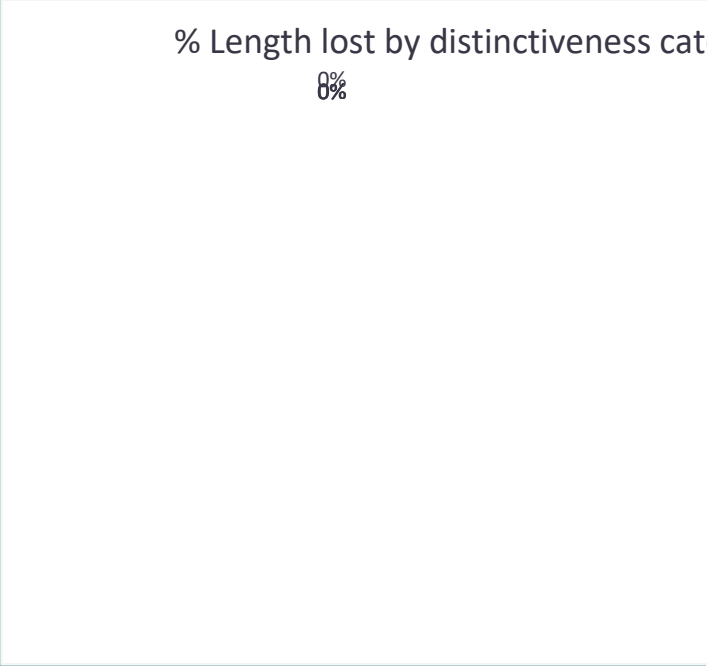
Combined Biodiversity Unit change





Legend: Onsite Unit change (pink), Off-site unit change (grey), Off site Proposed value (green), Off-site Existir (brown)

Distinctiveness band
Length lost (%)



Change by hedgerow type
(Hedgerow units)

Native Species	Native Hedgerow - Associated with bank or ditch	Native Hedgerow with trees	Line of Trees (Ecologically Valuable)	Line of Trees (Ecologically Valuable) - with Bank or Ditch	Native Hedgerow	Line of Trees	Line of Trees
Native Species	Native Hedgerow - Associated with bank or ditch	Native Hedgerow with trees	Line of Trees (Ecologically Valuable)	Line of Trees (Ecologically Valuable) - with Bank or Ditch	Native Hedgerow	Line of Trees	Line of Trees

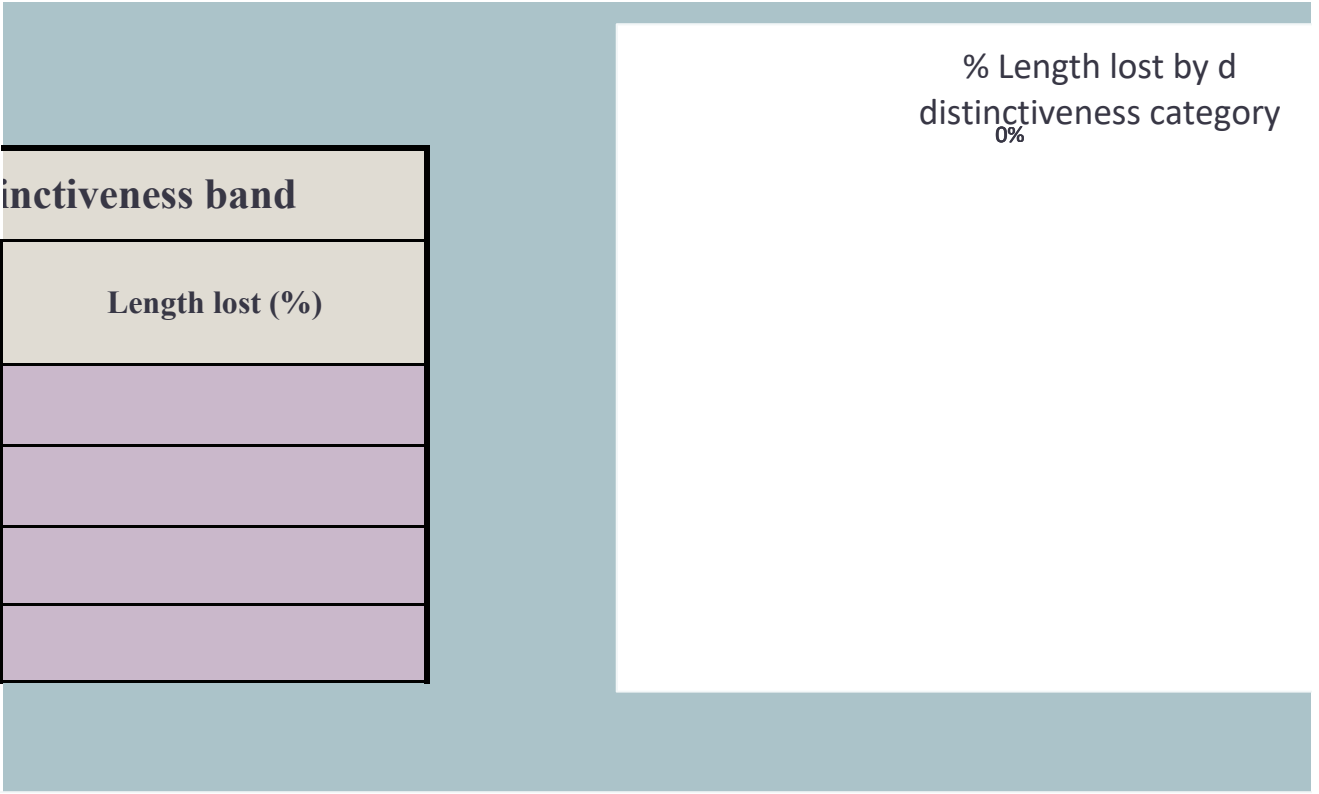
■ Proposed value on-site ■ Existing length off-site ■ Proposed value off-site

Combined Biodiversity unit change

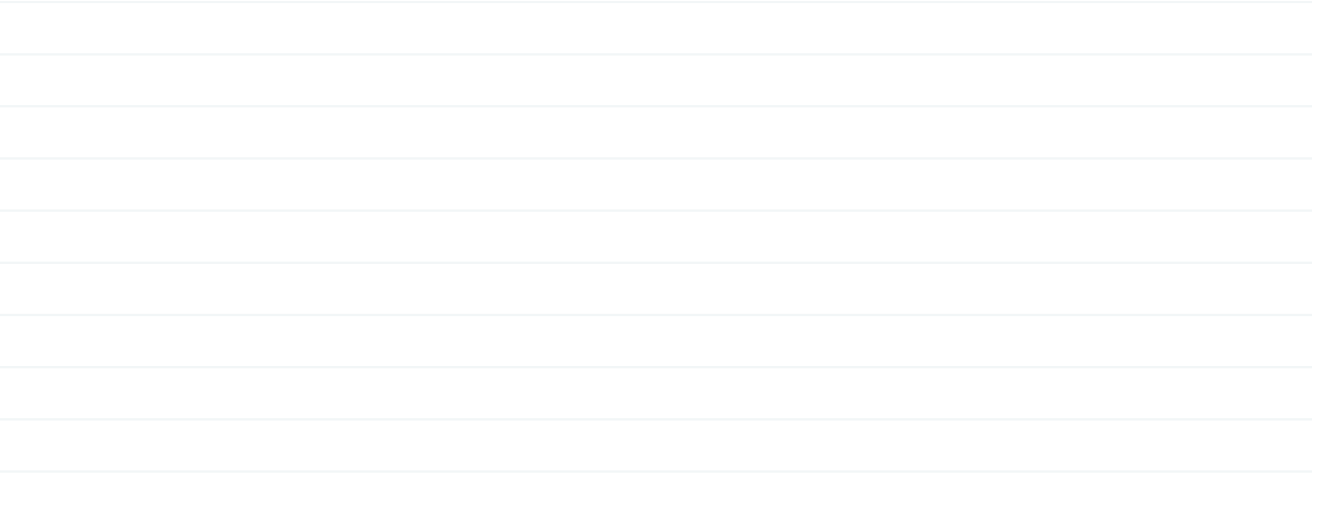
Native Species	Native Hedgerow - Associated with bank or ditch	Native Hedgerow with trees	Line of Trees (Ecologically Valuable)	Line of Trees (Ecologically Valuable) - with Bank or Ditch	Native Hedgerow	Line of Trees	Line of Trees	Line of Trees
Native Species	Native Hedgerow - Associated with bank or ditch	Native Hedgerow with trees	Line of Trees (Ecologically Valuable)	Line of Trees (Ecologically Valuable) - with Bank or Ditch	Native Hedgerow	Line of Trees	Line of Trees	Line of Trees

On-site On-site Unit change Off site Unit change Proposed value off-site Existing value





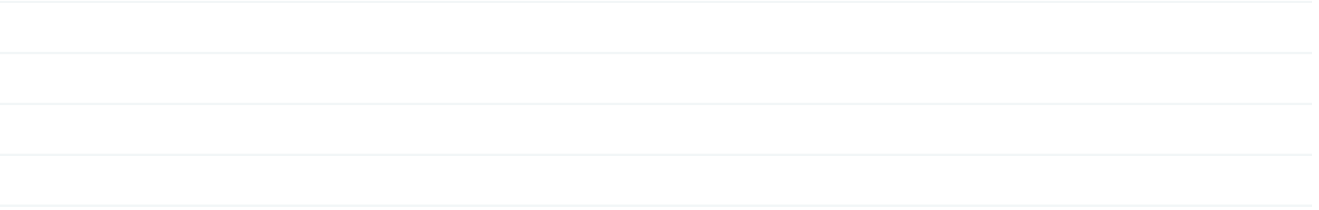
Unit change by river type

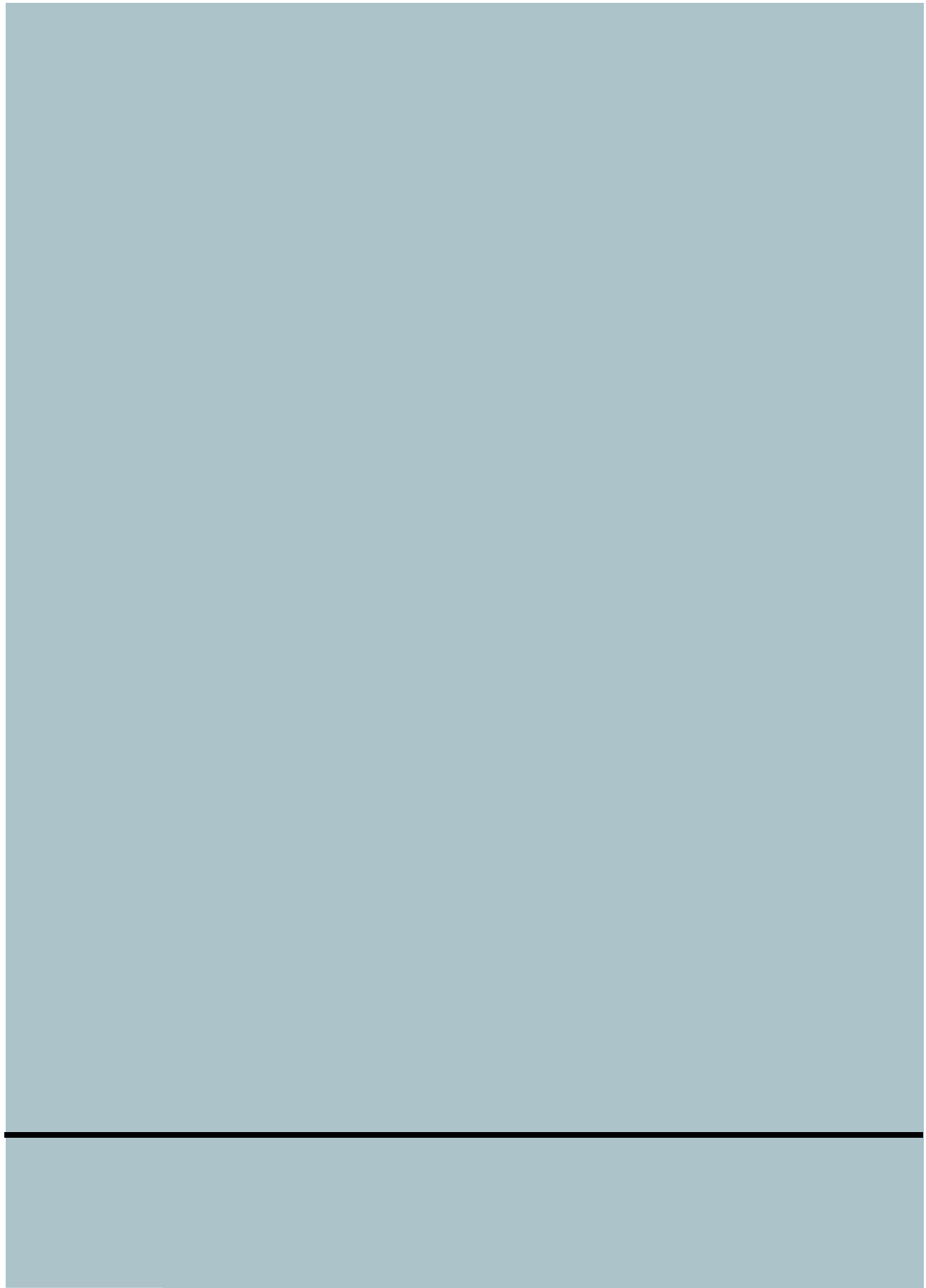


oposed value Existing value off-site Proposed value off-site



Combined Biodiversity Unit change





■ V.High

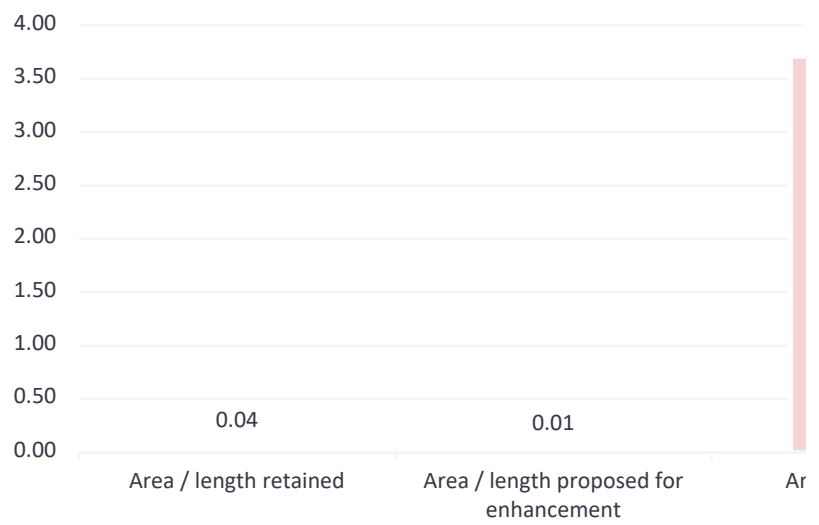
■ High

■ Medium

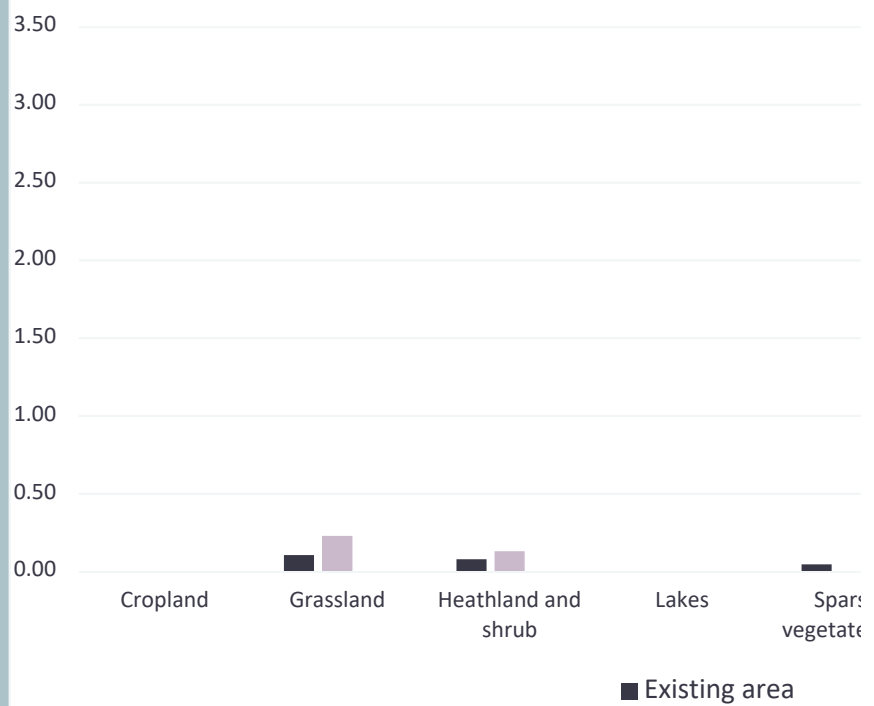
■ Low

■ V.Low

On site and off site habitat retention by catchment area (hectares)

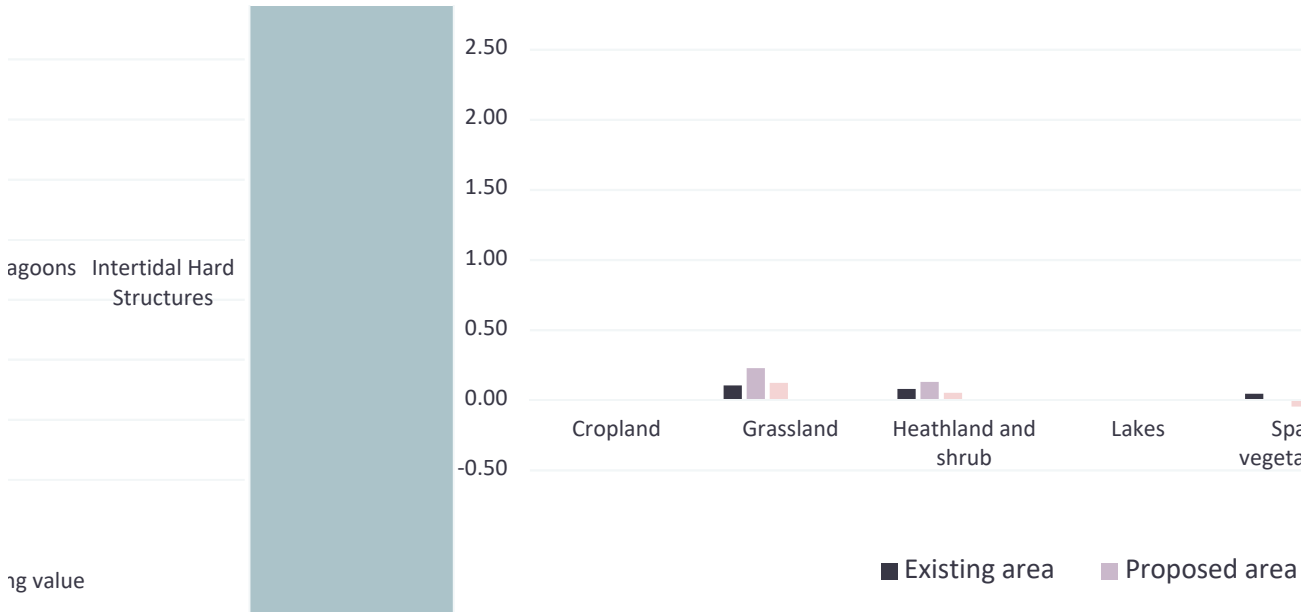


ons Intertidal Hard Structures

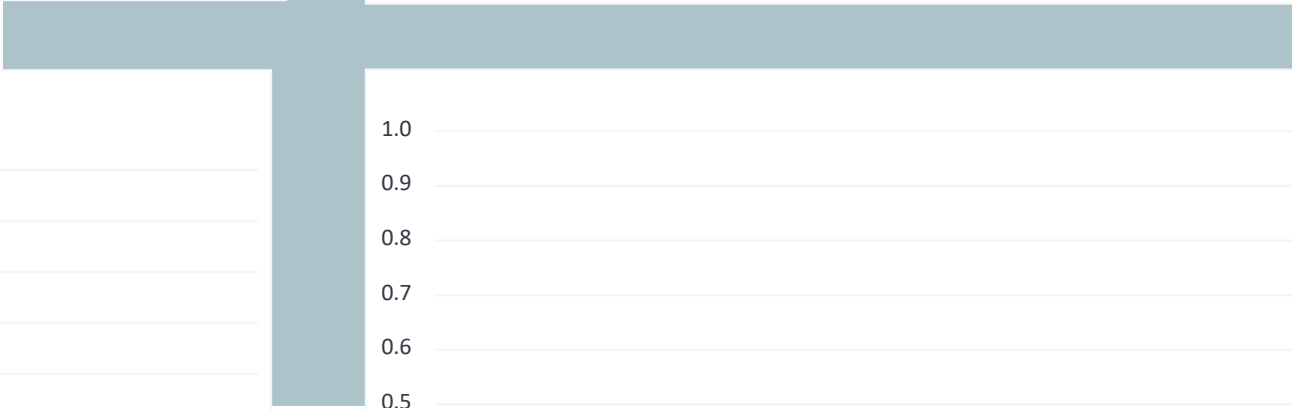
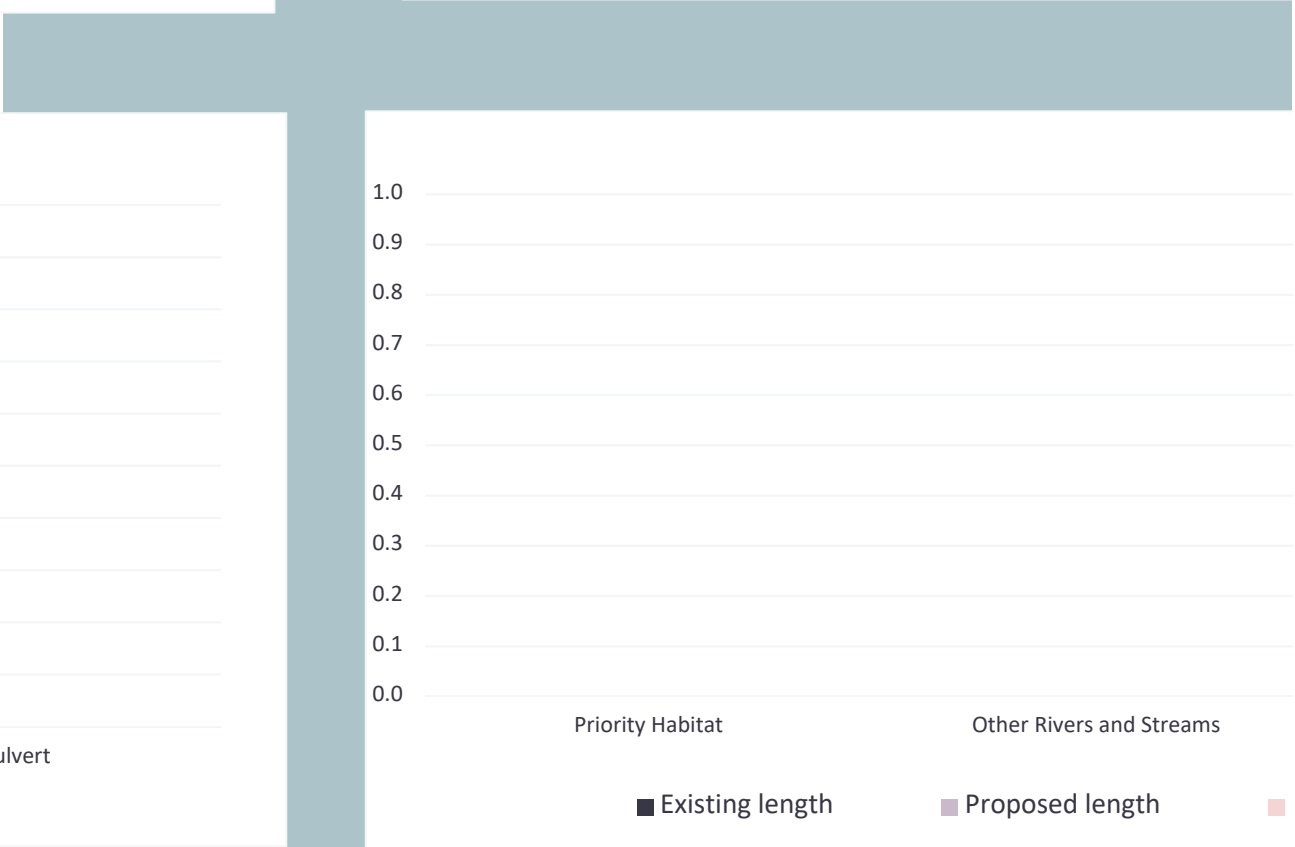
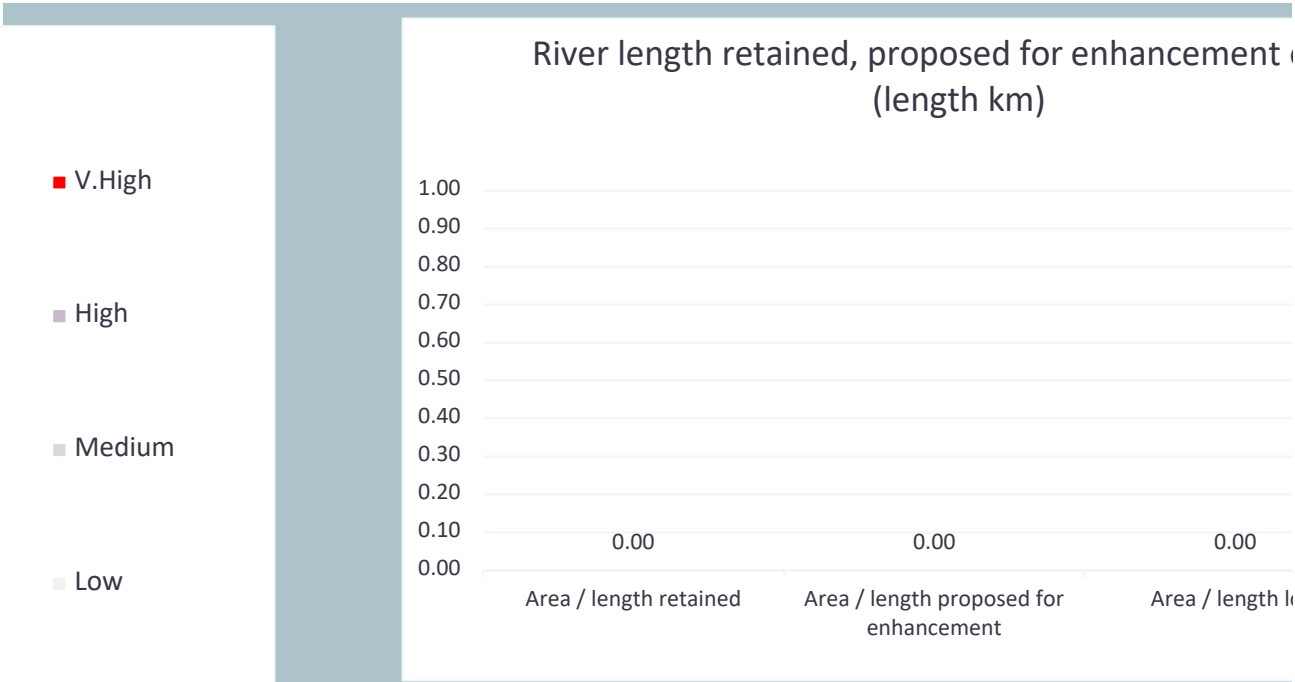


3.50

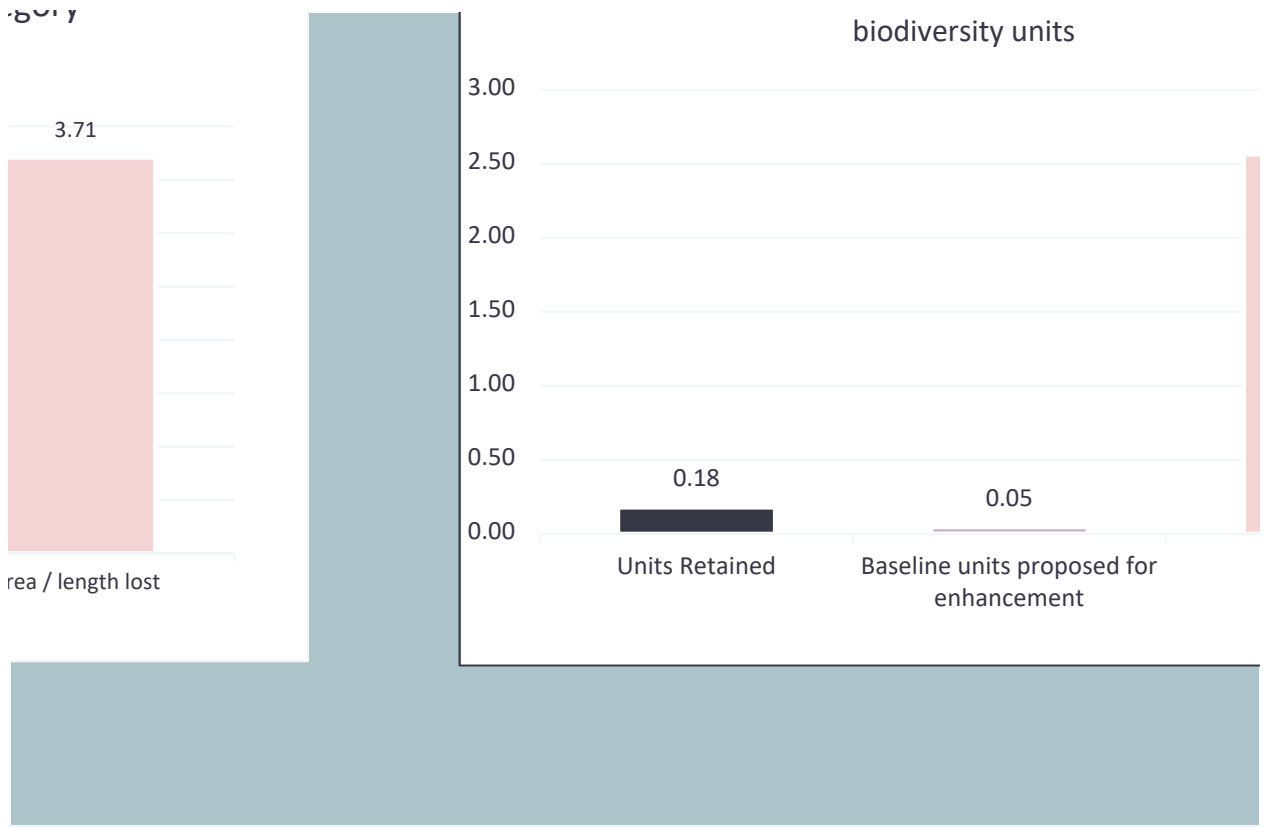
3.00



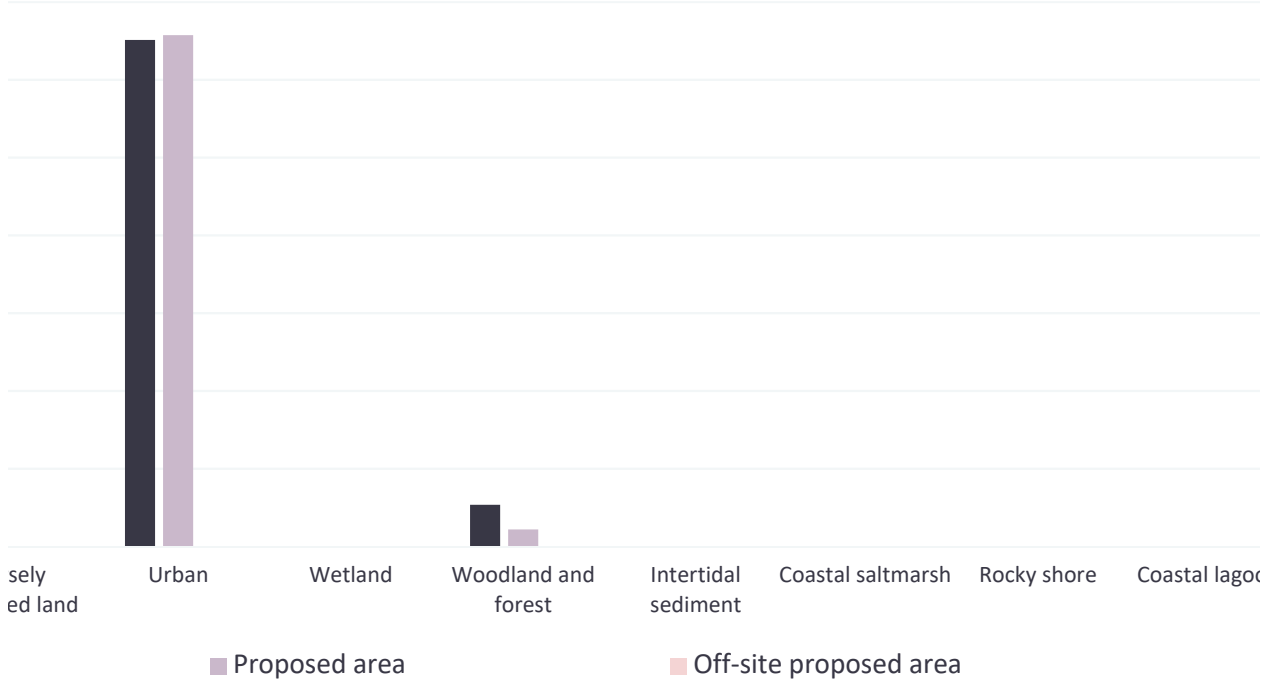






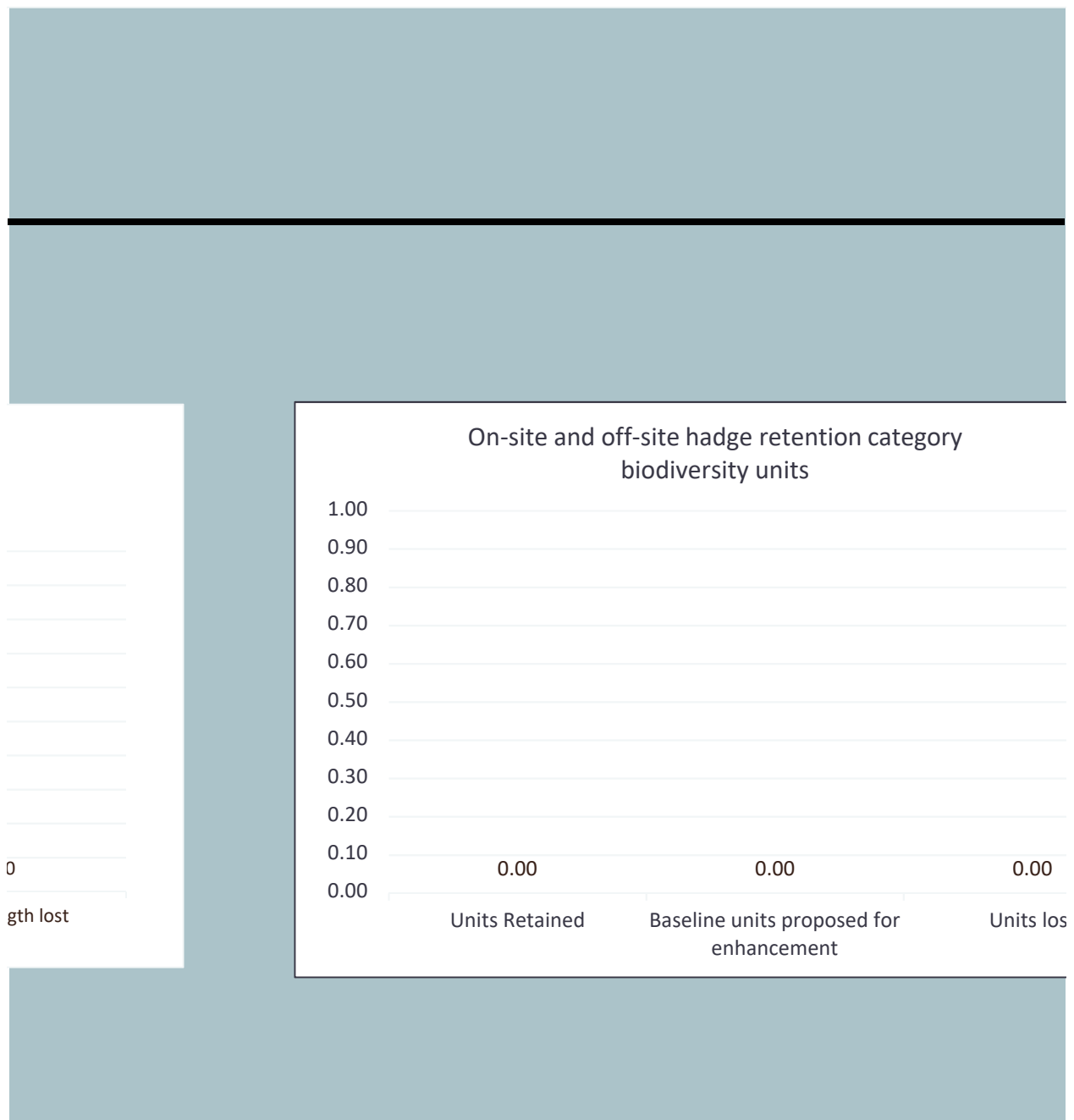
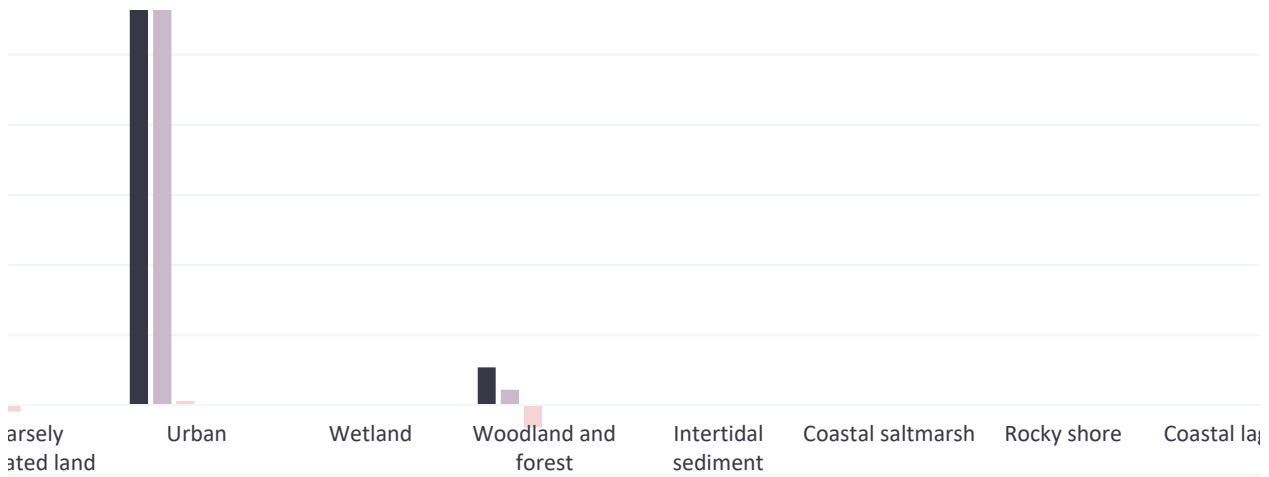


On site area change by habitat group



Combined habitat area change



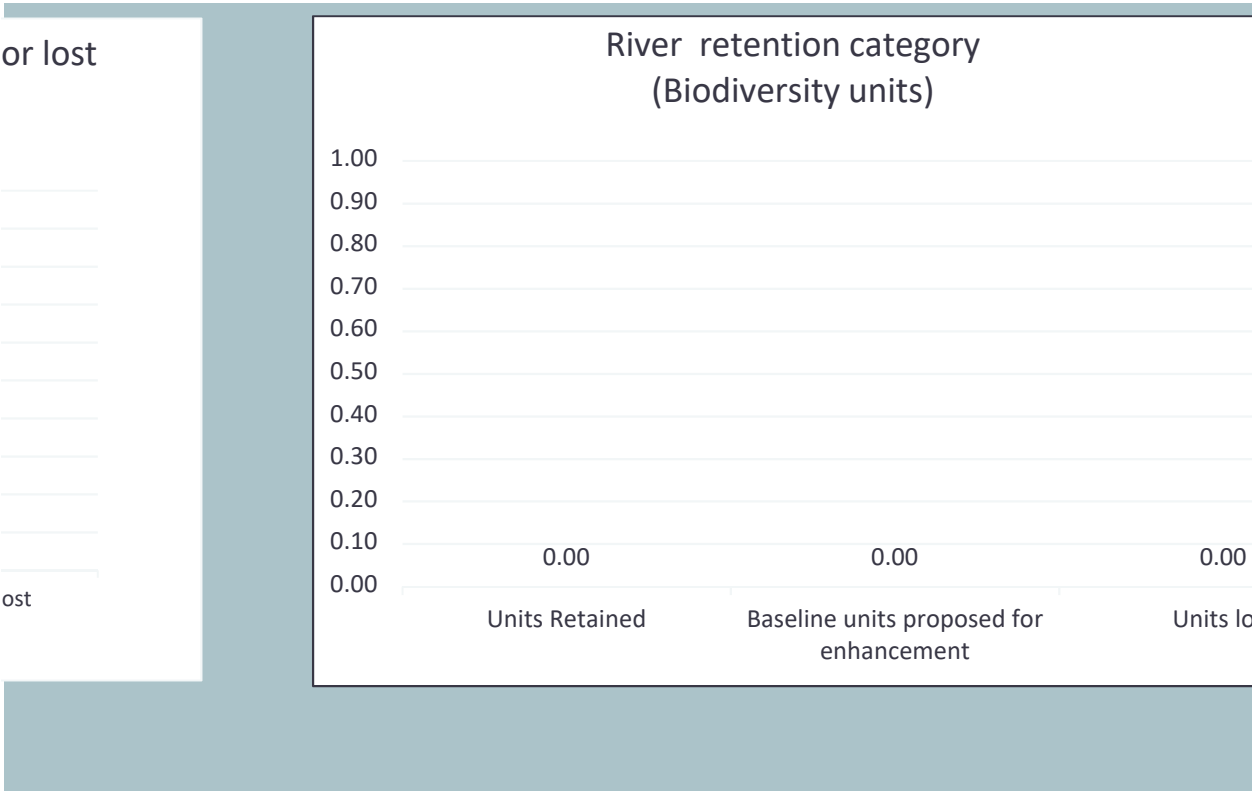


Proposed length change by hedgerow length (km)

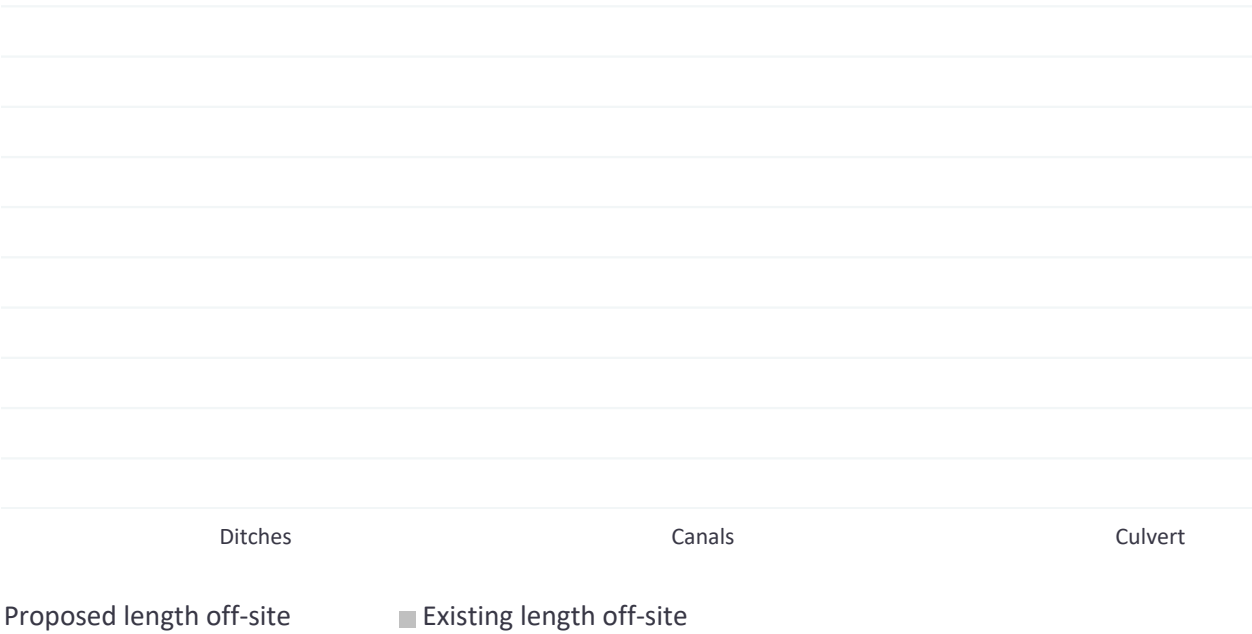
Native Hedgerow - Associated with bank or ditch	Native Hedgerow with trees	Line of Trees (Ecologically Valuable)	Line of Trees (Ecologically Valuable) - with Bank or Ditch	Native Hedgerow	Line of Trees	Line of Trees - Associated with Orn
Proposed length on-site	Existing length off-site	Proposed length off-site				

Combined hedgerow length change (km)

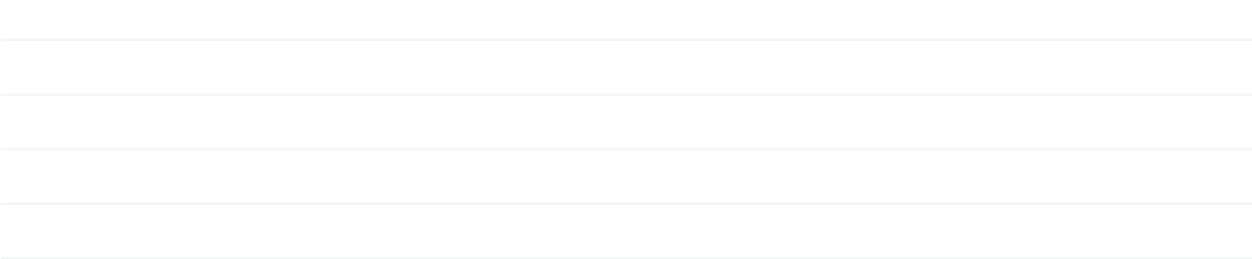
Native Hedgerow - Associated with bank or ditch	Native Hedgerow with trees	Line of Trees (Ecologically Valuable)	Line of Trees (Ecologically Valuable) - with Bank or Ditch	Native Hedgerow	Line of Trees	Line of Trees - Associated with bank or ditch
On-site length change	Off-site length change	Proposed length off-site	Existing length			



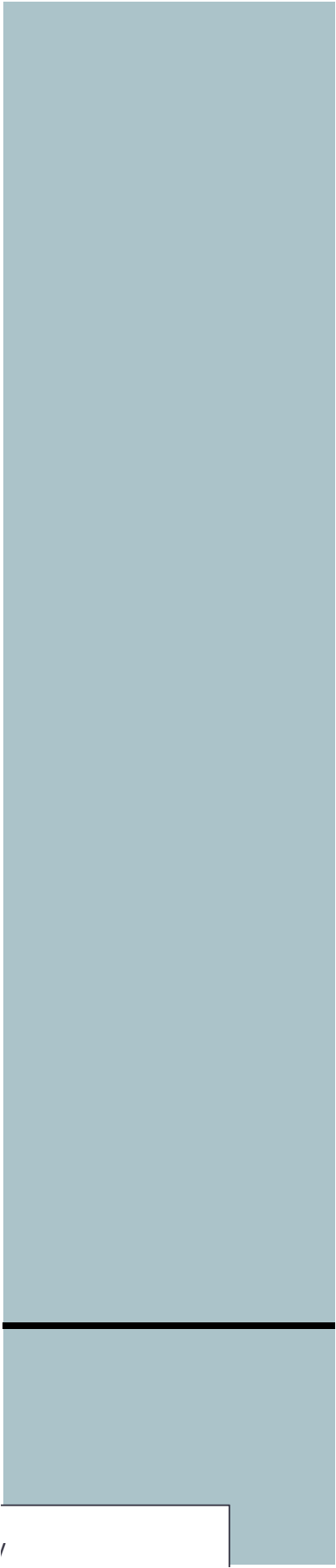
Length change by river type

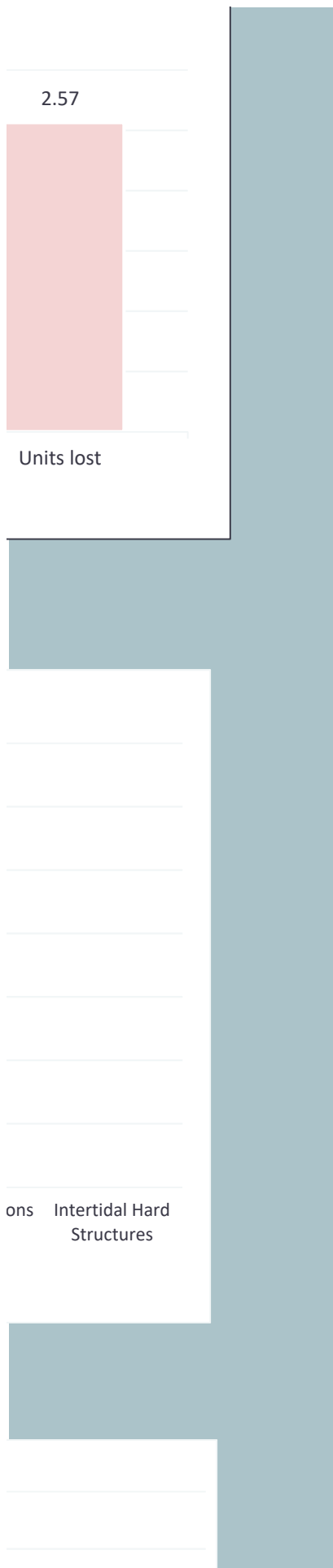


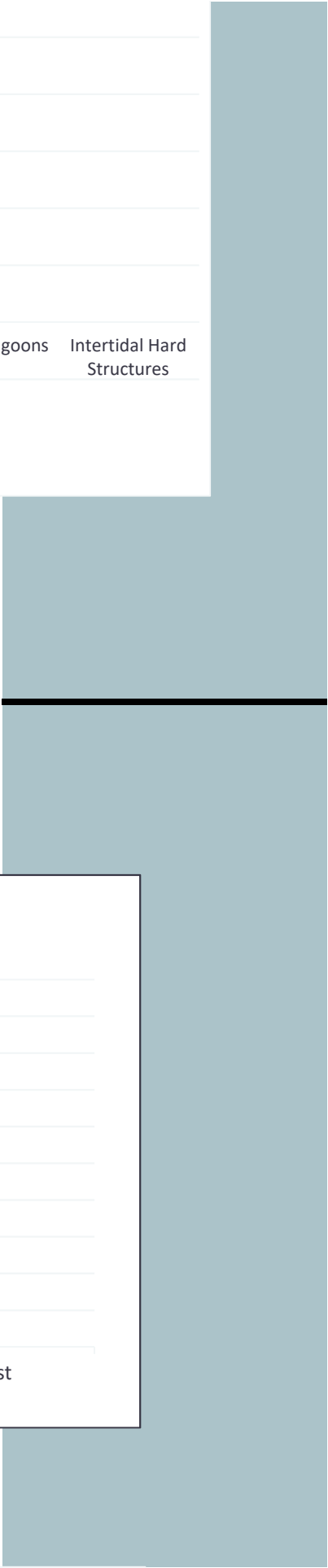
Combined river length change



	Ditches	Canals	Culvert
change	Existing length off-site Proposed length off-site Off-site length change		





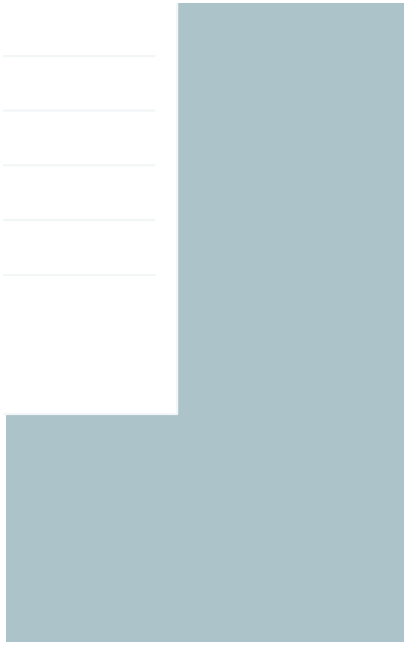


Hedge
 Fundamental Non
 Native

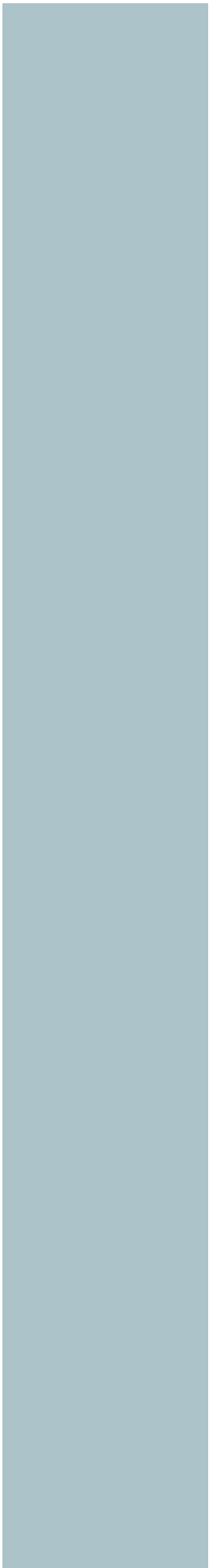
Hedge
Ornamental Non
Native

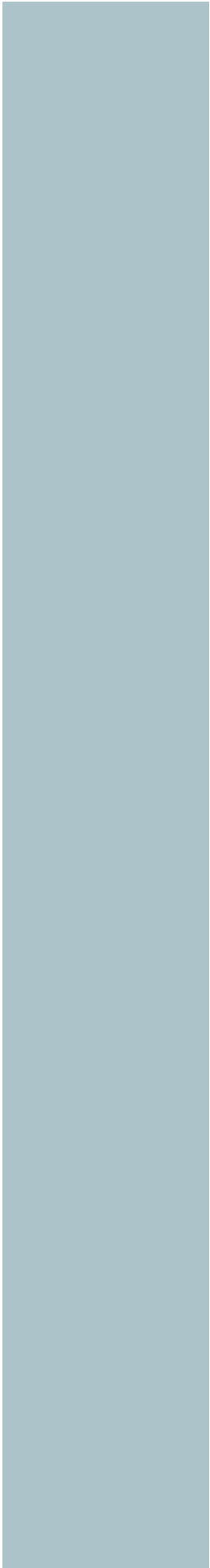
th off-site

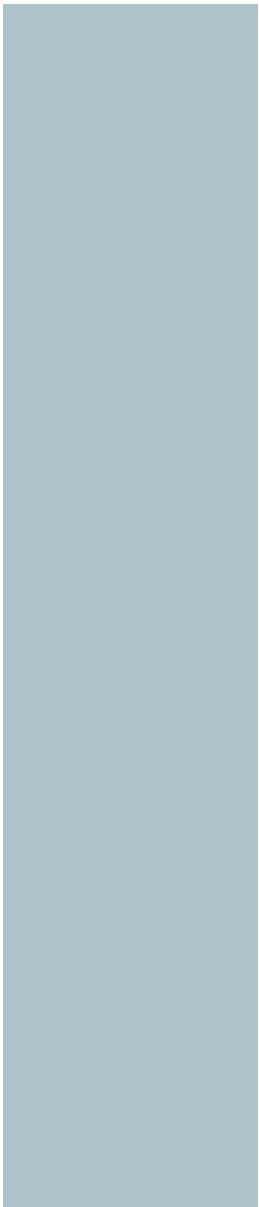
Week	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
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Return to
results
menu







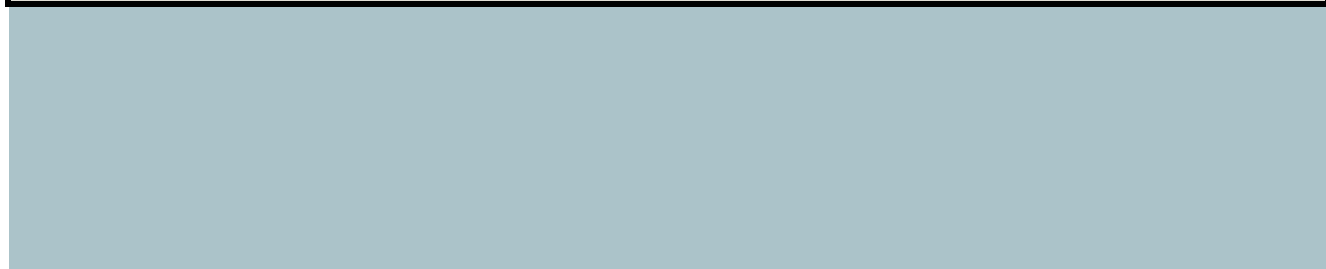
Trading S	
Distinctiveness Group	
Very High	
High	
Medium	
Low	
Very High D	
Habitat group	
Grassland - Lowland dry acid grassland	
Grassland - Lowland meadows	
Grassland - Upland hay meadows	
Heathland and shrub - Mountain heaths and willow scrub	
Lakes - Aquifer fed naturally fluctuating water bodies	
Sparsely vegetated land - Calaminarian grasslands	
Sparsely vegetated land - Limestone pavement	
Wetland - Blanket bog	
Wetland - Depressions on Peat substrates (H7150)	
Wetland - Fens (upland and lowland)	
Wetland - Lowland raised bog	
Wetland - Oceanic Valley Mire[1] (D2.1)	
Wetland - Purple moor grass and rush pastures	
Wetland - Transition mires and quaking bogs (H7140)	
Woodland and forest - Wood-pasture and parkland	
Rocky shore - High energy littoral rock - on peat, clay or chalk	
Rocky shore - Moderate energy littoral rock - on peat, clay or chalk	
Rocky shore - Low energy littoral rock - on peat, clay or chalk	
Rocky shore - Features of littoral rock - on peat, clay or chalk	
Intertidal sediment - Littoral seagrass on peat, clay or chalk	
High Dist	
Habitat group	
Grassland - Traditional orchards	
Grassland - Floodplain Wetland Mosaic (CFGM)	
Grassland - Lowland calcareous grassland	

Grassland - Tall herb communities
Grassland - Upland calcareous grassland
Heathland and shrub - Lowland Heathland
Heathland and shrub - Sea buckthorn scrub (Annex 1)
Heathland and shrub - Upland Heathland
Lakes - High alkalinity lakes
Lakes - Low alkalinity lakes
Lakes - Marl Lakes
Lakes - Moderate alkalinity lakes
Lakes - Peat Lakes
Lakes - Ponds (Priority Habitat)
Lakes - Temporary lakes, ponds and pools
Sparsely vegetated land - Coastal sand dunes
Sparsely vegetated land - Coastal vegetated shingle
Sparsely vegetated land - Inland rock outcrop and scree habitats
Sparsely vegetated land - Maritime cliff and slopes
Urban - Open Mosaic Habitats on Previously Developed Land
Wetland - Reedbeds
Woodland and forest - Felled
Woodland and forest - Lowland beech and yew woodland
Woodland and forest - Lowland mixed deciduous woodland
Woodland and forest - Native pine woodlands
Woodland and forest - Upland birchwoods
Woodland and forest - Upland mixed ashwoods
Woodland and forest - Upland oakwood
Woodland and forest - Wet woodland
Coastal lagoons - Coastal lagoons
Rocky shore - High energy littoral rock
Rocky shore - Moderate energy littoral rock
Rocky shore - Low energy littoral rock
Rocky shore - Features of littoral rock
Intertidal sediment - Littoral mud
Intertidal sediment - Littoral mixed sediments
Coastal saltmarsh - Saltmarshes and saline reedbeds
Intertidal sediment - Littoral biogenic reefs - Mussels
Intertidal sediment - Littoral biogenic reefs - Sabellaria
Intertidal sediment - Features of littoral sediment
Intertidal sediment - Littoral muddy sand



Medium Dis	
Habitat Group	
Cropland - Arable field margins cultivated annually	

Cropland - Arable field margins game bird mix
Cropland - Arable field margins pollen & nectar
Cropland - Arable field margins tussocky
Cropland - Cereal crops winter stubble
Grassland - Other lowland acid grassland
Grassland - Other neutral grassland
Grassland - Upland acid grassland
Heathland and shrub - Blackthorn scrub
Heathland and shrub - Bramble scrub
Heathland and shrub - Gorse scrub
Heathland and shrub - Hawthorn scrub
Heathland and shrub - Hazel scrub
Heathland and shrub - Mixed scrub
Lakes - Ponds (Non- Priority Habitat)
Lakes - Reservoirs
Sparsely vegetated land - Other inland rock and scree
Urban - Brown roof
Urban - Cemeteries and churchyards
Urban - Intensive green roof
Woodland and forest - Other Scot's Pine woodland
Woodland and forest - Other woodland; broadleaved
Woodland and forest - Other woodland; mixed
Intertidal sediment - Littoral coarse sediment
Intertidal sediment - Littoral sand
Intertidal Hard Structures - Artificial hard structures with Integrated Greening of Grey Infrastructure (IGGI)



Low Distinctiveness	
Habitat group	
Cropland - Cereal crops	
Cropland - Cereal crops other	
Cropland - Horticulture	
Cropland - Intensive orchards	
Cropland - Non-cereal crops	
Cropland - Temporary grass and clover leys	
Grassland - Modified grassland	
Grassland - Bracken	
Heathland and shrub - Rhododendron scrub	
Lakes - Ornamental lake or pond	
Sparsely vegetated land - Ruderal/Ephemeral	

Urban - Bioswale
Urban - Allotments
Urban - Facade-bound green wall
Urban - Ground based green wall
Urban - Ground level planters
Urban - Extensive green roof
Urban - Introduced shrub
Urban - Rain garden
Urban - Sand pit quarry or open cast mine
Urban - Urban Tree
Urban - Sustainable urban drainage feature
Urban - Vacant/derelict land/ bareground
Urban - Vegetated garden
Woodland and forest - Other coniferous woodland
Coastal saltmarsh - Artificial saltmarshes and saline reedbeds
Intertidal sediment - Artificial littoral coarse sediment
Intertidal sediment - Artificial littoral mud
Intertidal sediment - Artificial littoral sand
Intertidal sediment - Artificial littoral muddy sand
Intertidal sediment - Artificial littoral mixed sediments
Intertidal sediment - Artificial littoral seagrass
Intertidal sediment - Artificial littoral biogenic reefs
Intertidal Hard Structures - Artificial hard structures
Intertidal Hard Structures - Artificial features of hard structures
Heathland and shrub - Sea buckthorn scrub (other)



Trading Rule

Bespoke compensation likely to be required

Same habitat required

Same broad habitat or a higher distinctiveness habitat required

Same distinctiveness or better habitat required

Group	On Site Unit Change	Off Site Unit Change	Project wide Unit Change
Grassland	0.00	0.00	0.00
Grassland	0.00	0.00	0.00
Grassland	0.00	0.00	0.00
Heathland and shrub	0.00	0.00	0.00
Lakes	0.00	0.00	0.00
Sparsely vegetated land	0.00	0.00	0.00
Sparsely vegetated land	0.00	0.00	0.00
Wetland	0.00	0.00	0.00
Wetland	0.00	0.00	0.00
Wetland	0.00	0.00	0.00
Wetland	0.00	0.00	0.00
Wetland	0.00	0.00	0.00
Wetland	0.00	0.00	0.00
Wetland	0.00	0.00	0.00
Woodland and forest	0.00	0.00	0.00
Rocky shore	0.00	0.00	0.00
Rocky shore	0.00	0.00	0.00
Rocky shore	0.00	0.00	0.00
Rocky shore	0.00	0.00	0.00
Intertidal sediment	0.00	0.00	0.00
	0.00	0.00	0.00

Effectiveness

Group	On Site Unit Change	Off Site Unit Change	Project wide Unit Change
Grassland	0.00	0.00	0.00
Grassland	0.00	0.00	0.00
Grassland	0.00	0.00	0.00

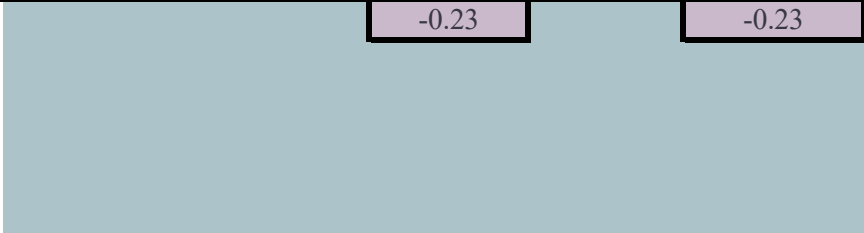
[illegible]

Group	On site unit change	Off Site Unit Change	Project wide unit change
Cropland	0.00	0.00	0.00

Cropland	0.00	0.00	0.00
Cropland	0.00	0.00	0.00
Cropland	0.00	0.00	0.00
Cropland	0.00	0.00	0.00
Grassland	0.00	0.00	0.00
Grassland	1.48	0.00	1.48
Grassland	0.00	0.00	0.00
Heathland and shrub	0.00	0.00	0.00
Heathland and shrub	0.00	0.00	0.00
Heathland and shrub	0.00	0.00	0.00
Heathland and shrub	0.00	0.00	0.00
Heathland and shrub	0.00	0.00	0.00
Heathland and shrub	0.45	0.00	0.45
Lakes	0.00	0.00	0.00
Lakes	0.00	0.00	0.00
Sparsely vegetated land	0.00	0.00	0.00
Urban	0.00	0.00	0.00
Urban	0.00	0.00	0.00
Urban	0.00	0.00	0.00
Woodland and forest	0.00	0.00	0.00
Woodland and forest	0.51	0.00	0.51
Woodland and forest	-2.10	0.00	-2.10
Intertidal sediment	0.00	0.00	0.00
Intertidal sediment	0.00	0.00	0.00
Intertidal	0.00	0.00	0.00
	0.34	0.00	0.34

Group	On site unit change	Off Site Unit Change	Project wide unit change
Cropland	0.00	0.00	0.00
Cropland	0.00	0.00	0.00
Cropland	0.00	0.00	0.00
Cropland	0.00	0.00	0.00
Cropland	0.00	0.00	0.00
Cropland	0.00	0.00	0.00
Grassland	-0.12	0.00	-0.12
Grassland	0.00	0.00	0.00
Heathland and shrub	0.00	0.00	0.00
Lakes	0.00	0.00	0.00
Sparsely vegetated land	-0.09	0.00	-0.09

Sparsely vegetated land	0.00	0.00	0.00
Urban	0.00	0.00	0.00
Urban	0.00	0.00	0.00
Urban	0.00	0.00	0.00
Urban	0.00	0.00	0.00
Urban	0.00	0.00	0.00
Urban	-0.02	0.00	-0.02
Urban	0.00	0.00	0.00
Urban	0.00	0.00	0.00
Urban	0.00	0.00	0.00
Urban	0.00	0.00	0.00
Urban	0.00	0.00	0.00
Urban	0.00	0.00	0.00
Woodland and forest	0.00	0.00	0.00
Coastal saltmarsh	0.00	0.00	0.00
Intertidal sediment	0.00	0.00	0.00
Intertidal sediment	0.00	0.00	0.00
Intertidal sediment	0.00	0.00	0.00
Intertidal sediment	0.00	0.00	0.00
Intertidal sediment	0.00	0.00	0.00
Intertidal sediment	0.00	0.00	0.00
Intertidal sediment	0.00	0.00	0.00
Intertidal	0.00	0.00	0.00
Intertidal	0.00	0.00	0.00
Heathland and shrub	0.00	0.00	0.00
	-0.23		-0.23



Trading Satisfied?
Yes
Yes
No
Yes

Unit Losses
0.00

Losses not yet accounted for

Very High Distinctiveness Summary
Very High Distinctiveness Units available to offset lower distinctiveness deficit

High Distinctiveness Summary
High Distinctiveness Units available to offset lower distinctiveness deficit
Unit Deficit; Like for like not satisfied

0.00
1.48
0.45
0.00
0.00
0.00
-1.59
0.00

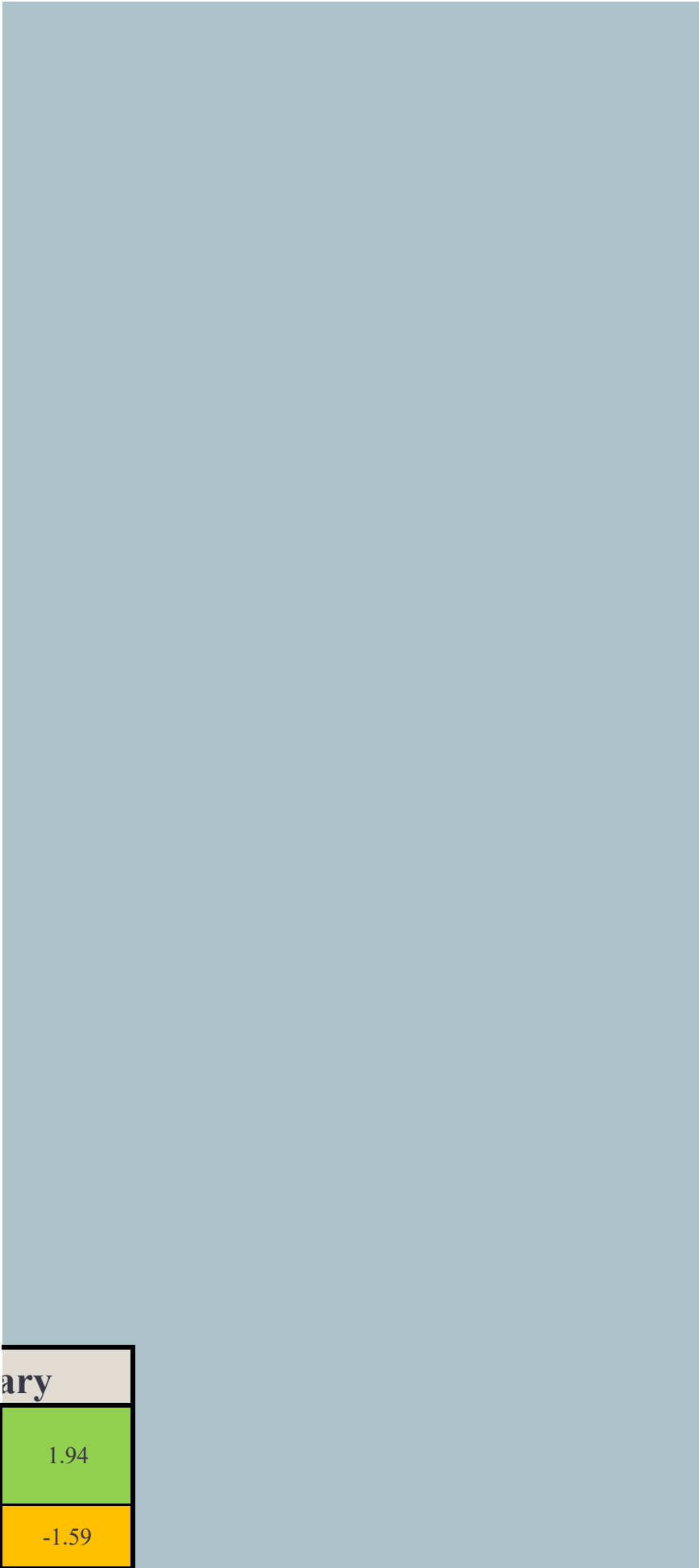
Higher distinctiveness surplus units miunus Medium Distinctivenss Broad Habitat Defecit
Cumulative surplus of units

Low Distinctiveness Summary
Low Distinctiveness Net Change in Units
Cumulative surplus of units



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0.00

y
0.00
0.00



ary
1.94
-1.59

0.00
1.94

y
-0.23
1.70



Condense / Show O

Main Menu

Ref	Broad habitat
1	Grassland
2	Heathland and shrub
3	Heathland and shrub
4	Sparsely vegetated land
5	Urban
6	Urban
7	Urban
8	Woodland and forest
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A-1 Site Habitat Baseline

Columns

Condense / Show Rows

Downloaded from <http://ajph.org/> on November 10, 2015

Habitats and areas	
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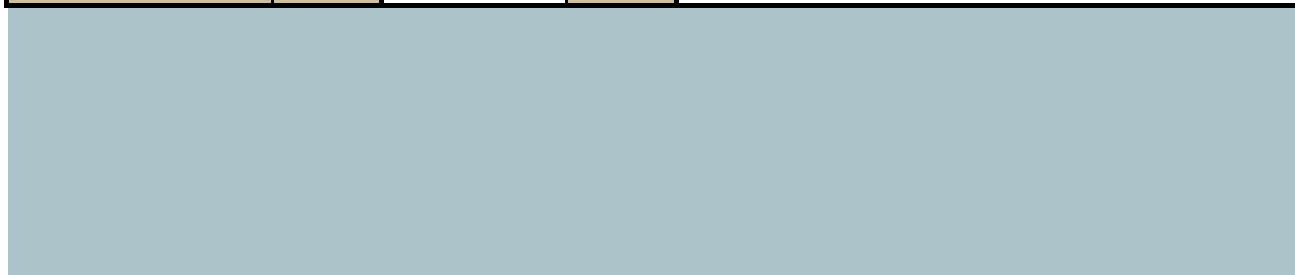
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Conclusions

Reviewer comments

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Condense / Show

Main Me

Broad Habitat
Grassland
Grassland
Grassland
Heathland and shrub
Heathland and shrub
Urban
Woodland and forest

A-2 Site Habitat Creation

Columns

Condense / Show Rows

nu

Instructions

Proposed habitat	Area (hectares)
Modified grassland	0.0453
Other neutral grassland	0.1485
Other neutral grassland	0.0352
Mixed scrub	0.0924
Mixed scrub	0.0063
Developed land; sealed surface	3.2865
Other woodland; broadleaved	0.0915
Total area	3.71

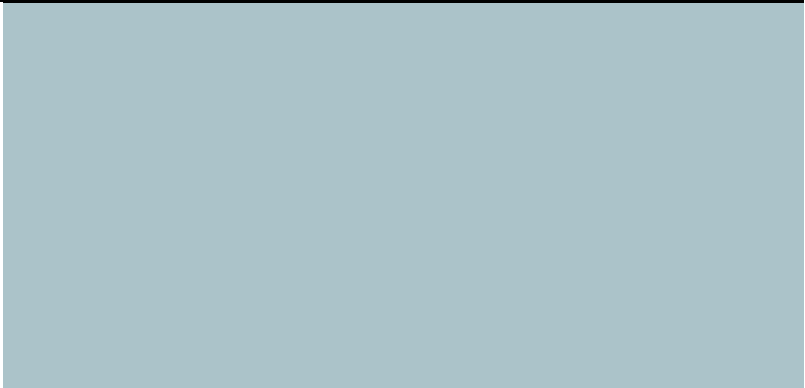
Distinctiveness		Condition	
Distinctiveness	Score	Condition	Score
Low	2	Poor	1
Medium	4	Good	3
Medium	4	Moderate	2
Medium	4	Moderate	2
Medium	4	Poor	1
V.Low	0	N/A - Other	0
Medium	4	Moderate	2

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



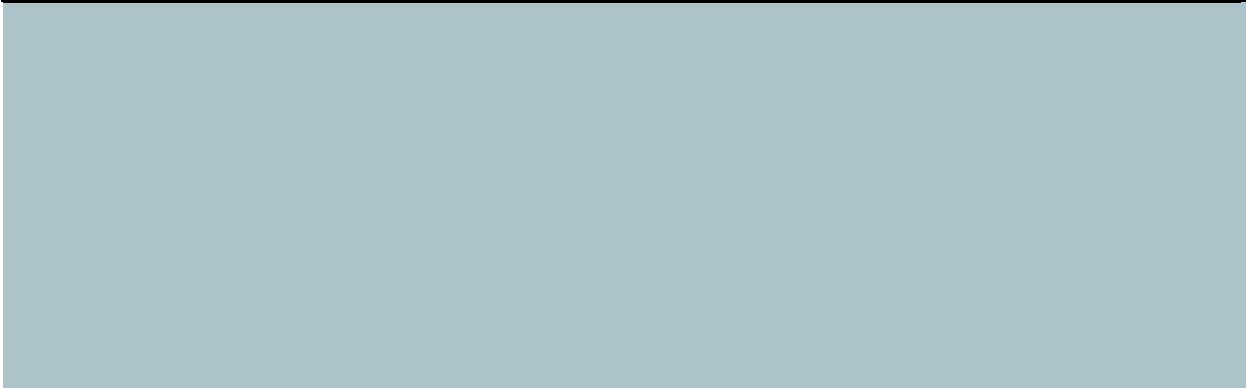
Post development/ post intervention habitats

Standard time to target condition/years	Habitat created in advance/years	Delay in starting habitat creation/years
1	0	0
10	0	0
5	0	0
5	0	0
1	0	0
0	0	0
15	0	0





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	1	0.965
Standard time to target condition applied	10	0.700
Standard time to target condition applied	5	0.837
Standard time to target condition applied	5	0.837
Standard time to target condition applied	1	0.965
Standard time to target condition applied	0	1.000
Standard time to target condition applied	15	0.586



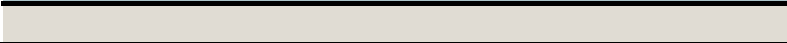


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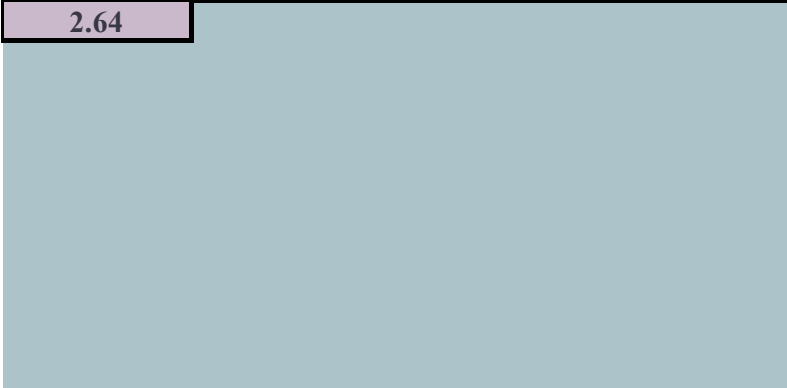
Difficulty multipliers			
Standard difficulty of creation	Applied difficulty multiplier	Final difficulty of creation	Difficulty multiplier applied
Low	Standard difficulty applied	Low	1
Low	Standard difficulty applied	Low	1
Low	Standard difficulty applied	Low	1
Low	Standard difficulty applied	Low	1
Low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

			Total Units
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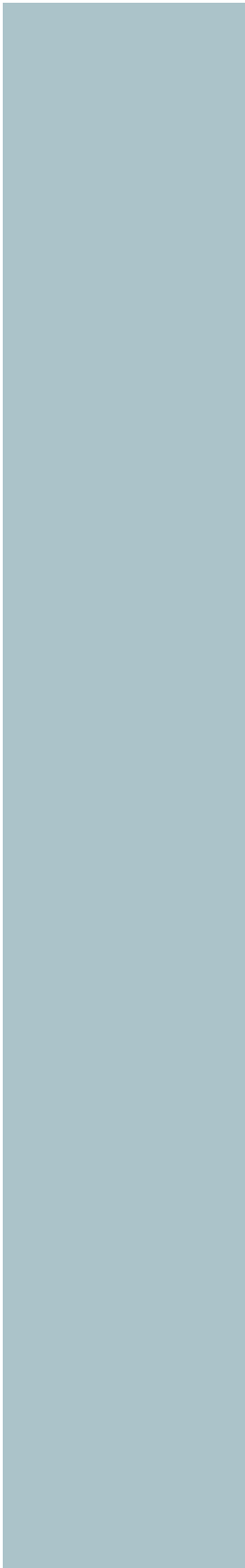




Habitat units delivered	Con
	Assessor comments
0.09	
1.25	
0.24	
0.62	
0.02	
0.00	
0.43	
2.64	



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A-3 Site Habitat Enhancement

Condense / Show Columns

Condense / Show Rows

[Main Menu](#)

Instructions

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Change in broad habitat type detected. Check compliance with g

Temporal risk multiplier

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Guidance.

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