The Biodiversity Metric 2.0 - Calculation Tool Start page

Project details

Planning authority:	
Project name:	SWS - to - Route 2
Applicant:	Southern Water
Application type:	
Planning application reference:	
Assessor:	TP
Reviewer:	LP
Revision:	
Assessment date:	
Planning authority reviewer:	



Main menu

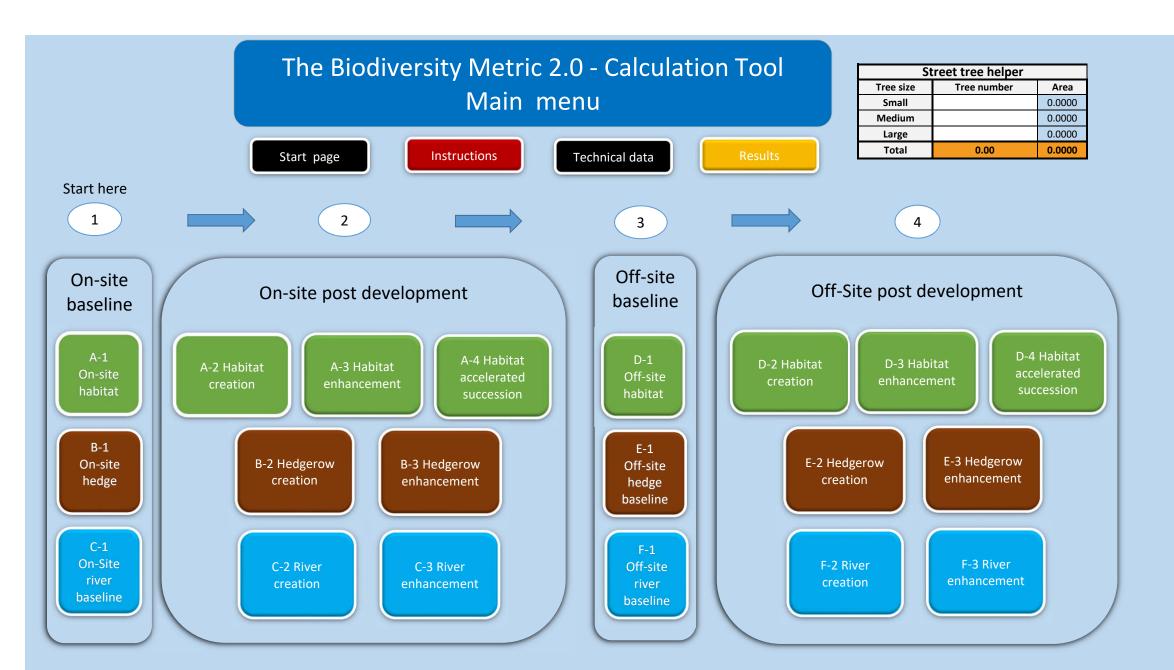
Results

Enter data
Automatic lookup
Result

Cell style conventions



Reset view



The Biodiversity Metric 2.0 - Calculation Tool



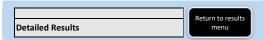


Detailed results

Habitat trading summary

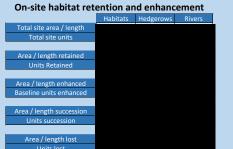
Headline Results Return to

	Habitat units	
On-site baseline	Hedgerow units	
	River units	
On-site post-intervention	Habitat units	
· · · · · · · · · · · · · · · · · · ·	Hedgerow units	
(Including habitat retention, creation, enhancement & succession)	River units	
	Habitat units	
Off-site baseline	Hedgerow units	
Off Site buseline	River units	
Off site most intermention	Habitat units	
Off-site post-intervention	Hedaerow units	
(Including habitat retention, creation, enhancement & succession)	River units	
Total net unit change	Habitat units	
Total fiet utilt change	Hedgerow units	
(including all on-site & off-site habitat retention/creation)	River units	
Total net % change	Habitat units	
o de la companya de	Hedgerow units	
(including all on-site & off-site habitat creation + retained habitats)	River units	



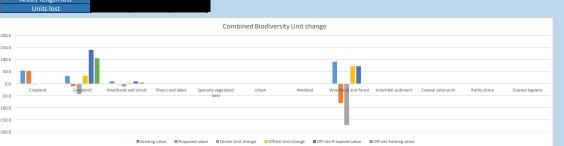
Summary Figures

Net project biodiversity units (including all on-site & off-site habitat retention/creation)	Habitat units Hedgerow units River units	
Total project biodiversity % change (including all On-site & Off-site Habitat Creation + Retained Habitats)	Habitat units Hedgerow units River units	







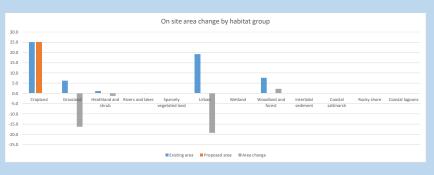


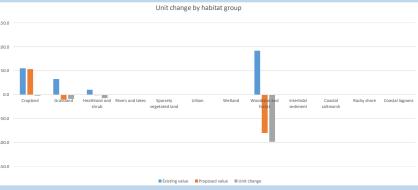
	Base	eline	Post develo	pment on site	Onsit	e Change		
Habitat group	Existing area	Existing value	Proposed area	Proposed value	Area change	Onsite Uni change		
Cropland								
Grassland								
Heathland and shrub								
Rivers and lakes								
Sparsely vegetated land								
Urban								
Wetland								
Woodland and forest								
Intertidal sediment								
Coastal saltmarsh								
Rocky shore								
Coastal lagoons								

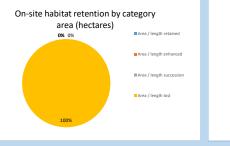


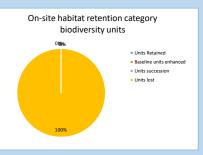
Off-site	Base	eline	Post develo	opment Off-site	Off-site Change		
Habitat group	Existing area	Off-site Existing value	Proposed area	Off site Proposed value	Area change	Offsite Uni change	
Cropland							
Grassland							
Heathland and shrub							
Rivers and lakes							
Sparsely vegetated land							
Urban							
Wetland							
Woodland and forest							
Intertidal sediment							
Coastal saltmarsh							
Rocky shore							
Coastal lagoons							

Combined	Base	eline	Combined Po	st development	Combine	ed change	
Habitat group	Existing area	Existing value	Proposed area	Proposed value	Proposed area	Proposed value	
Cropland							
Grassland							
Heathland and shrub							
Rivers and lakes							
Sparsely vegetated land							
Urban							
Wetland							
Woodland and forest							
Intertidal sediment							
Coastal saltmarsh							
Rocky shore							
Coastal lagoons							











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		Habitats and areas		Habitat disti	nctiveness	Habitat	condition		Ecological connectivit	ty	Strateg	ic significance		Suggested action to address	Ecol bas
Ref	Broad Habitat	Habitat type	Area (hectares)	Distinctiveness	Score	Condition	Score	Ecological connectivity	Connectivity	Connectivity multiplier	Strategic significance	Strategic significance	Strategic position multiplier	habitat losses	Total
1	Cropland	Cropland - Cereal crops		Low	2	N/A - Agricultural	1	Low	Unconnected habitat	1	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	Same distinctiveness or better habitat required	
2	Grassland	Grassland - Other neutral grassland		Medium	4	Moderate	2	Low	Unconnected habitat	1	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	Same broad habitat or a higher distinctiveness habitat required	
3	Grassland	Grassland - Modified grassland		Low	2	Moderate	2	Low	Unconnected habitat	1	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	Same distinctiveness or better habitat required	
4	Heathland and shrub	Heathland and shrub - Mixed scrub		Medium	4	Moderate	2	Low	Unconnected habitat	1	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	Same broad habitat or a higher distinctiveness habitat required	
5	Heathland and shrub	Heathland and shrub - Mixed scrub		Medium	4	Moderate	2	Low	Unconnected habitat	1	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	Same broad habitat or a higher distinctiveness habitat required	
6	Lakes	Lakes - Ponds (Non- Priority Habitat)		High	6	Moderate	2	Medium	Moderately connected habitat	1.1	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	Same habitat required	
7	Heathland and shrub	Heathland and shrub - Mixed scrub		Medium	4	Moderate	2	Low	Unconnected habitat	1	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	Same broad habitat or a higher distinctiveness habitat required	
8	Heathland and shrub	Heathland and shrub - Mixed scrub		Medium	4	Moderate	2	Low	Unconnected habitat	1	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	Same broad habitat or a higher distinctiveness habitat required	
9	Urban	Urban - Developed land; sealed surface		V.Low	0	N/A - Other	0	N/A	Assessment not appropriate	1	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	Compensation Not Required	
10	Urban	Urban - Built linear features		V.Low	0	N/A - Other	0	N/A	Assessment not appropriate	1	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	Compensation Not Required	
11	Woodland and forest	Woodland and forest - Lowland mixed deciduous woodland		High	6	Moderate	2	Medium	Moderately connected habitat	1.1	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	Same habitat required	
12	Woodland and forest	Woodland and forest - Other coniferous woodland		Low	2	Moderate	2	Low	Unconnected habitat	1	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	Same distinctiveness or better habitat required	

		R	etention cat	egory biodi	versity value			Bespoke compensation	Comr	nents
Area retained	Area enhanced	Area succession	Baseline units retained	Baseline units enhanced	Baseline units succession	Area lost	Units lost	agreed for unacceptable losses	Assessor comments	Reviewer comments
			0.00	0.00	0.00					
			0.00	0.00	0.00					
			0.00	0.00	0.00					
			0.00	0.00	0.00					
			0.00	0.00	0.00					
			0.00	0.00	0.00					
			0.00	0.00	0.00					
			0.00	0.00	0.00					
			0.00	0.00	0.00					
			0.00	0.00	0.00					
			0.00	0.00	0.00					
			0.00	0.00	0.00				·	

A-2 Site Habitat Creation	
Condense / Show Columns	Condense / Show Rows
Main Menu	Instructions

	Post development/ post intervention habitats Ecological connectivity Strategic significance Temporal multiplier Difficulty multipliers																	
												Temporal r	multiplier	Difficulty	multipliers		Co	mments
Proposed habitat	Area (hectares)	Distinctiveness	Score	Condition	Score	Ecological connectivity	Connectivity	Connectivity multiplier	Strategic significance	Strategic significance	Strategic position multiplier	Time to target condition/years	Time to target multiplier	Difficulty of creation category	Difficulty of creation multiplier	Habitat units delivered	Assessor comments	Reviewer comments
Cropland - Cereal crops		Low	2	N/A - Agricultural	1	Low	Unconnected habitat	1	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	1	0.965	Low	1			
Grassland - Other neutral grassland		Medium	4	moderate	2	Low	Unconnected habitat	1	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	10	0.700	Low	1			
Grassland - Modified grassland		Low	2	moderate	2	Low	Unconnected habitat	1	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	10	0.700	Low	1			
Heathland and shrub - Mixed scrub		Medium	4	moderate	2	Low	Unconnected habitat	1	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	3	0.899	Low	1			
Heathland and shrub - Mixed scrub		Medium	4	moderate	2	Low	Unconnected habitat	1	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	3	0.899	Low	1			
Lakes - Ponds (Non- Priority Habitat)		High	6	moderate	2	medium	Moderately connected habitat	1.1	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	3	0.899	Low	1			
Heathland and shrub - Mixed scrub		Medium	4	moderate	2	Low	Unconnected habitat	1	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	3	0.899	Low	1			
Heathland and shrub - Mixed scrub		Medium	4	moderate	2	Low	Unconnected habitat	1	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	3	0.899	Low	1			
Urban - Developed land; sealed surface		V.Low	0	N/A - Other	0	N/A	Assessment not appropriate	1	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	0	1.000	Low	1			
Urban - Built linear features		V.Low	0	N/A - Other	0	N/A	Assessment not appropriate	1	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	0	1.000	Low	1			
Woodland and forest - Lowland mixed deciduous woodland		High	6	moderate	2	medium	Moderately connected habitat	1.1	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	32+	0.320	High	0.33			
Woodland and forest - Other coniferous woodland		Low	2	moderate	2	Low	Unconnected habitat	1	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	25	0.410	Low	1			



ref number Hedgerow type Distinctiveness Score Condition Score Connectivity The Connectivity Connectivity Multiplier Strategic significance Strategic significance Strategic significance Distinctiveness Score Connectivity The Connectivity Strategic significance Strategic significance Strategic significance The Connectivity The Connectivity Strategic Strat			UK Habitats - existing habitats	Habitat distinctive		eness Habitat condition			Ecological connectivity		Strategic signi	ficance			Ecologica baseline
1 Native Species Rich Hedgerow Medium 4 Moderate 2 Low Unconnected habitat 1 strategy significance 1.1 Like to the control of		-	Hedgerow type	Distinctiveness	Score	Condition	Score		Connectivity		Strategic significance	Strategic significance	position	Suggested action to address habitat losses	Total
Location ecologically desirable but not in local Medium strategic	1		Native Species Rich Hedgerow	Medium	4	Moderate	2	Low	Unconnected habitat	1			1.1	Like for like or better	
Native Species Rich Hedgerow with trees Medium 4 Moderate 2 Low Unconnected habitat 1 strategy significance 1.1 Like!	2		Native Species Rich Hedgerow with trees	Medium	4	Moderate	2	Low	Unconnected habitat	1			1.1	Like for like or better	

	Retention	category bio	diversity val	ue		Comments									
Length retained	Length enhanced	Units retained	Units enhanced	Length lost	Units lost	Assessor comments	Reviewer comments								
		0	0												
		0	0												

B-2 S	2 Site Hedge Creation Condense / Show Columns Condense / Show Rows																			
	Main Menu Instructions Multipliers Spatial quality																			
		Proposed habitats Habitat Habitat condition							Ecological connectivity Strategic significance						nultiplier	Difficulty of creation		Comments		
Baselir ref	e New hedge number	Habitat type	ength km	Distinctiveness	Score	Condition	Score	Ecological connectivity	Connectivity	Connectivity multiplier	Strategic significance	Strategic significance	Strategic position multiplier	Time to target condition/years	Time to target multiplier	multiplier	Hedge units delivered	Assessor comments	Reviewer comments	
1		Native Species Rich Hedgerow		Medium	4	Moderate	2	Low	Unconnected habitat	1	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	5	0.837	0.67				
2		Native Species Rich Hedgerow with trees		Medium	4	Moderate	2	Low	Unconnected habitat	1	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	10	0.700	0.67				



		Habitats and areas		Habitat distinctive	eness	Habitat con	dition		Ecological connectivity		Strategic signi	ficance			Eco
Baseline ref	Broad habitat	Habitat type	Area (hectares)			Condition	Score	Ecological connectivity	Connectivity	Connectivity multiplier	Strategic significance	Strategic significance	Strategic position multiplier	Suggested action to address habitat losses	Total
1	Grassland	Grassland - Modified grassland		Low	2	Poor	1	Low	Unconnected habitat	1	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	Same distinctiveness or better habitat required	
2	Grassland	Grassland - Other neutral grassland		Medium	4	Moderate	2	Low	Unconnected habitat	1	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	Same broad habitat or a higher distinctiveness habitat required	
3	Grassland	Grassland - Modified grassland		Low	2	Moderate	2	Low	Unconnected habitat	1	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	Same distinctiveness or better habitat required	
4	Heathland and shrub	Heathland and shrub - Mixed scrub		Medium	4	Poor	1	Low	Unconnected habitat	1	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	Same broad habitat or a higher distinctiveness habitat required	
5	Lakes	Lakes - Ponds (Non- Priority Habitat)		High	6	Poor	1	Medium	Moderately connected habitat	1.1	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	Same habitat required	
6	Grassland	Grassland - Modified grassland		Low	2	Moderate	2	Low	Unconnected habitat	1	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	Same distinctiveness or better habitat required	
							•		•						

		Re	etention cate	gory biodive	ersity value			Bespoke compensation	Comments							
Area retained	Area enhanced	Area succession	Baseline units retained	Baseline units enhanced	Baseline units succession	Area lost	Units lost	agreed for unacceptable losses	Assessor comments	Reviewer comments						
	11.5		0	25.30	0.00											
	1.5		0	13.20	0.00											
	5.5		0	24.20	0.00											
	1.2		0	5.28	0.00											
	0.01		0	0.07	0.00											
		10	0	0.00	44.00											

Condense /	ite Habitat Enhancment how Columns Condense / Show Rows Menu Instructions					ment/ post interv						_		
	Baseline habitats			c	omments									
Baseline ref	Baseline habitat	Proposed habitat (Pre-Populated but can be overridden)	Distinctiveness change Condition change		rea ha Distinctivene	ss Condition	ition Ecological connectivity score	Strategic significance	Time to target condition/years	Difficulty of enhancement category	Spatial risk category Habitat u		Assessor comments	Reviewer comments
1	Grassland - Modified grassland	Grassland - Other neutral grassland	Low - Medium	Lower Distinctiveness Habitat - Moderate	Medium	Moderate	Low	Location ecologically desirable but not in local strategy	10	Low	Compensation inside LPA or NCA, or deemed to be sufficiently local, to site of biodiversity loss			
2	Grassland - Other neutral grassland	Grassland - Lowland meadows	Medium - V.High	Lower Distinctiveness Habitat - Moderate	V.High	Moderate	Medium	Location ecologically desirable but not in local strategy	10	Medium	Compensation inside LPA or NCA, or deemed to be sufficiently local, to site of biodiversity loss			
3	Grassland - Modified grassland	Grassland - Other neutral grassland	Low - Medium	Lower Distinctiveness Habitat - Moderate	Medium	Moderate	Low	Location ecologically desirable but not in local strategy	10	Low	Compensation inside LPA or NCA, or deemed to be sufficiently local, to site of biodiversity loss			
4	Heathland and shrub - Mixed scrub	Heathland and shrub - Mixed scrub	Medium - Medium	Poor - Moderate	Medium	Moderate	Low	Location ecologically desirable but not in local strategy	5	Low	Compensation inside LPA or NCA, or deemed to be sufficiently local, to site of biodiversity loss			
5	Lakes - Ponds (Non- Priority Habitat)	Lakes - Ponds (Non- Priority Habitat)	High - High	Poor - Moderate	High	Moderate	Medium	Location ecologically desirable but not in local strategy	2	Low	Compensation inside LPA or NCA, or deemed to be sufficiently local, to site of biodiversity loss			

D-4	D-4 Off Site Habitat Succession															
Con	Condense / Show Columns Condense / Show Rows															
	Main Menu Instructions Post development/ post intervention habitats															
		Baseline habitats		Change in distinctiveness and condition					connectivity	Strategic significance	Temporal multiplier	multipliers	Spatial risk multiplier	Habitat units	Comments	
Basel	line ref	Baseline habitat	Proposed habitat	Distinctiveness change	Condition change		Distinctiveness		Ecological connectivity score	Strategic significance	Time to target condition/years	Difficulty of creation category	Spatial risk category	delivered	Assessor comments	Reviewer comments
	6	Grassland - Modified grassland	Woodland and forest - Lowland mixed deciduous woodland	Low - High	Lower Distinctiveness Habitat - Moderate		High	Moderate	Medium	Location ecologically desirable but not in local strategy	32+	High	Compensation inside LPA or NCA, or deemed to be sufficiently local, to site of biodiversity loss			

E-	Off Sit	e Hedge Creation																			
	Condense / Show Columns Condense / Show Rows Instructions																				
		Proposed habitats					Eco	logical connectivit	1	Strategic significa	ince		Spatial risk multiplier	Temporal n		Difficulty multiplier			Comr	Comments	
	eline hedg	nabitat type	Distinctiveness	Score	Condition	Score	Ecological connectivity	Connectivity	Connectivity multiplier	Strategic significance	Strategic significance	Strategic position multiplier	Spatial risk category	Spatial risk multiplier	Time to target condition/years	Time to target multiplier	Difficulty of Difficulty of creation creation category mu	ation	delivered	Assessor comments	Reviewer comments
	ı	Native Species Rich Hedgerow	Medium	4	Moderate	2	low	Unconnected habitat	1	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	Compensation inside LPA or NCA, or deemed to be sufficiently local, to site of biodiversity loss	1	5	0.837	Medium	0.67			
	2	Native Species Rich Hedgerow with trees	Medium	4	Moderate	2	low	Unconnected habitat	1	Location ecologically desirable but not in local strategy	Medium strategic significance	1.1	Compensation inside LPA or NCA, or deemed to be sufficiently local, to site of biodiversity loss	1	10	0.700	Medium	0.67			