

# The Biodiversity Metric 3.1 - Calculation Tool

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Project details	
Planning authority:	North Lincolnshire Council
Project name:	Humber Zero
Applicant:	VPI
Application type:	
Planning application reference:	
Assessor:	Luke Hartley ACIEEM - ESL (Ecological Services) Ltd
Reviewer:	Dave Hughes MCIEEM - ESL (Ecological Services) Ltd
Metric version:	3.1
Assessment date:	03/02/2023
Planning authority reviewer:	

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Results

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On-site baseline map

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On-site post intervention map

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Off-site baseline map

Insert

Off-site post intervention map

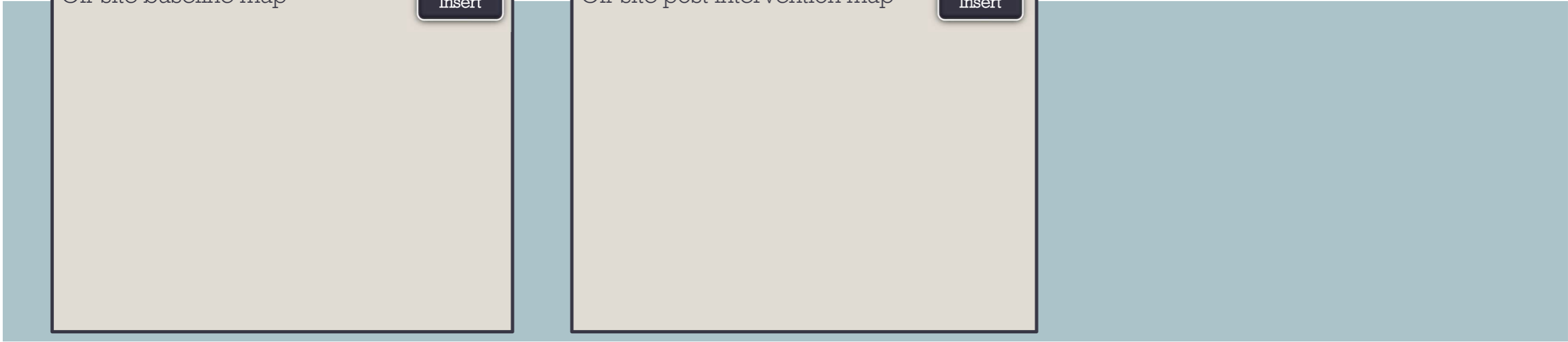
Insert

On site baseline map

Insert

On site post intervention map

Insert



Humber Zero  
 Headline Results

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On-site baseline	<i>Habitat units</i>	55.64
	<i>Hedgerow units</i>	0.00
	<i>River units</i>	4.80
On-site post-intervention <small>(Including habitat retention, creation &amp; enhancement)</small>	<i>Habitat units</i>	0.14
	<i>Hedgerow units</i>	0.00
	<i>River units</i>	2.95
On-site net % change <small>(Including habitat retention, creation &amp; enhancement)</small>	<i>Habitat units</i>	-99.74%
	<i>Hedgerow units</i>	0.00%
	<i>River units</i>	-38.64%
Off-site baseline	<i>Habitat units</i>	0.00
	<i>Hedgerow units</i>	0.00
	<i>River units</i>	0.00
Off-site post-intervention <small>(Including habitat retention, creation &amp; enhancement)</small>	<i>Habitat units</i>	0.00
	<i>Hedgerow units</i>	0.00
	<i>River units</i>	0.00
Total net unit change <small>(including all on-site &amp; off-site habitat retention, creation &amp; enhancement)</small>	<i>Habitat units</i>	-55.50
	<i>Hedgerow units</i>	0.00
	<i>River units</i>	-1.85
Total on-site net % change plus off-site surplus <small>(including all on-site &amp; off-site habitat retention, creation &amp; enhancement)</small>	<i>Habitat units</i>	-99.74%
	<i>Hedgerow units</i>	0.00%
	<i>River units</i>	-38.64%
Trading rules Satisfied?	No - Check Trading Summary ▲	

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### Trading Summary

Distinctiveness Group	Trading Rule	Trading Satisfied?
Very High	Bespoke compensation likely to be required ✖	Yes ✓
High	Same habitat required =	No ▲
Medium	Same broad habitat or a higher distinctiveness habitat required (≥)	No ▲
Low	Same distinctiveness or better habitat required ≥	No ▲

### Very High Distinctiveness

Habitat group	Group	On Site Unit Change	Off Site Unit Change	Project wide Unit Change	Unit Losses
Grassland - Lowland dry acid grassland	Grassland	0.00	0.00	0.00	
Grassland - Lowland meadows	Grassland	0.00	0.00	0.00	
Grassland - Upland hay meadows	Grassland	0.00	0.00	0.00	
Heathland and shrub - Mountain heaths and willow scrub	Heathland and shrub	0.00	0.00	0.00	
Lakes - Aquifer fed naturally fluctuating water bodies	Lakes	0.00	0.00	0.00	
Sparsely vegetated land - Calaminarian grasslands	Sparsely vegetated land	0.00	0.00	0.00	
Sparsely vegetated land - Limestone pavement	Sparsely vegetated land	0.00	0.00	0.00	
Wetland - Blanket bog	Wetland	0.00	0.00	0.00	
Wetland - Depressions on Peat substrates (H7150)	Wetland	0.00	0.00	0.00	
Wetland - Fens (upland and lowland)	Wetland	0.00	0.00	0.00	
Wetland - Lowland raised bog	Wetland	0.00	0.00	0.00	
Wetland - Oceanic Valley Mire[1] (D2.1)	Wetland	0.00	0.00	0.00	
Wetland - Purple moor grass and rush pastures	Wetland	0.00	0.00	0.00	
Wetland - Transition mires and quaking bogs (H7140)	Wetland	0.00	0.00	0.00	
Woodland and forest - Wood-pasture and parkland	Woodland and forest	0.00	0.00	0.00	
Rocky shore - High energy littoral rock - on peat, clay or chalk	Rocky shore	0.00	0.00	0.00	
Rocky shore - Moderate energy littoral rock - on peat, clay or chalk	Rocky shore	0.00	0.00	0.00	
Rocky shore - Low energy littoral rock - on peat, clay or chalk	Rocky shore	0.00	0.00	0.00	
Rocky shore - Features of littoral rock - on peat, clay or chalk	Rocky shore	0.00	0.00	0.00	
Intertidal sediment - Littoral seagrass on peat, clay or chalk	Intertidal sediment	0.00	0.00	0.00	
		0.00	0.00	0.00	0.00

### Very High Distinctiveness Summary

Very High Distinctiveness Units available to offset lower distinctiveness deficit	0.00
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### High Distinctiveness

Habitat group	Group	On Site Unit Change	Off Site Unit Change	Project wide Unit Change	Losses not yet accounted for
Grassland - Traditional orchards	Grassland	0.00	0.00	0.00	
Grassland - Floodplain Wetland Mosaic (CFGM)	Grassland	0.00	0.00	0.00	
Grassland - Lowland calcareous grassland	Grassland	0.00	0.00	0.00	
Grassland - Tall herb communities (H6430)	Grassland	0.00	0.00	0.00	
Grassland - Upland calcareous grassland	Grassland	0.00	0.00	0.00	
Heathland and shrub - Lowland Heathland	Heathland and shrub	0.00	0.00	0.00	
Heathland and shrub - Sea buckthorn scrub (Annex 1)	Heathland and shrub	0.00	0.00	0.00	
Heathland and shrub - Upland Heathland	Heathland and shrub	0.00	0.00	0.00	
Lakes - High alkalinity lakes	Lakes	0.00	0.00	0.00	
Lakes - Low alkalinity lakes	Lakes	0.00	0.00	0.00	
Lakes - Marl Lakes	Lakes	0.00	0.00	0.00	
Lakes - Moderate alkalinity lakes	Lakes	0.00	0.00	0.00	
Lakes - Peat Lakes	Lakes	0.00	0.00	0.00	
Lakes - Ponds (Priority Habitat)	Lakes	0.00	0.00	0.00	
Lakes - Temporary lakes, ponds and pools	Lakes	0.00	0.00	0.00	
Sparsely vegetated land - Coastal sand dunes	Sparsely vegetated land	0.00	0.00	0.00	
Sparsely vegetated land - Coastal vegetated shingle	Sparsely vegetated land	0.00	0.00	0.00	
Sparsely vegetated land - Inland rock outcrop and scree habitats	Sparsely vegetated land	0.00	0.00	0.00	
Sparsely vegetated land - Maritime cliff and slopes	Sparsely vegetated land	0.00	0.00	0.00	
Urban - Open Mosaic Habitats on Previously Developed Land	Urban	-24.89	0.00	-24.89	-24.89
Wetland - Reedbeds	Wetland	0.00	0.00	0.00	
Woodland and forest - Felled	Woodland and forest	0.00	0.00	0.00	
Woodland and forest - Lowland beech and yew woodland	Woodland and forest	0.00	0.00	0.00	
Woodland and forest - Lowland mixed deciduous woodland	Woodland and forest	0.00	0.00	0.00	
Woodland and forest - Native pine woodlands	Woodland and forest	0.00	0.00	0.00	
Woodland and forest - Upland birchwoods	Woodland and forest	0.00	0.00	0.00	
Woodland and forest - Upland mixed ashwoods	Woodland and forest	0.00	0.00	0.00	
Woodland and forest - Upland oakwood	Woodland and forest	0.00	0.00	0.00	
Woodland and forest - Wet woodland	Woodland and forest	0.00	0.00	0.00	
Coastal lagoons - Coastal lagoons	Coastal lagoons	0.00	0.00	0.00	
Rocky shore - High energy littoral rock	Rocky shore	0.00	0.00	0.00	
Rocky shore - Moderate energy littoral rock	Rocky shore	0.00	0.00	0.00	
Rocky shore - Low energy littoral rock	Rocky shore	0.00	0.00	0.00	
Rocky shore - Features of littoral rock	Rocky shore	0.00	0.00	0.00	
Intertidal sediment - Littoral mud	Intertidal sediment	0.00	0.00	0.00	
Intertidal sediment - Littoral mixed sediments	Intertidal sediment	0.00	0.00	0.00	
Coastal saltmarsh - Saltmarshes and saline reedbeds	Coastal Saltmarsh	0.00	0.00	0.00	
Intertidal sediment - Littoral biogenic reefs - Mussels	Intertidal sediment	0.00	0.00	0.00	
Intertidal sediment - Littoral biogenic reefs - Sabellaria	Intertidal sediment	0.00	0.00	0.00	
Intertidal sediment - Features of littoral sediment	Intertidal sediment	0.00	0.00	0.00	

### High Distinctiveness Summary

High Distinctiveness Units available to offset lower distinctiveness deficit	0.00
Unit Deficit; Like for like not satisfied	✖ -24.89

Intertidal sediment - Littoral muddy sand	Intertidal sediment	0.00	0.00	0.00	
		-24.89	0.00	-24.89	-24.89

Medium Distinctiveness					
Habitat Group	Group	On site unit change	Off Site Unit Change	Project wide unit change	Cumulative Broad Habitat Change
Cropland - Arable field margins cultivated annually	Cropland	0.00	0.00	0.00	0.00
Cropland - Arable field margins game bird mix	Cropland	0.00	0.00	0.00	
Cropland - Arable field margins pollen & nectar	Cropland	0.00	0.00	0.00	
Cropland - Arable field margins tussocky	Cropland	0.00	0.00	0.00	
Grassland - Other lowland acid grassland	Grassland	0.00	0.00	0.00	
Grassland - Other neutral grassland	Grassland	-2.22	0.00	-2.22	-2.22
Grassland - Upland acid grassland	Grassland	0.00	0.00	0.00	-15.22
Heathland and shrub - Blackthorn scrub	Heathland and shrub	0.00	0.00	0.00	
Heathland and shrub - Bramble scrub	Heathland and shrub	-11.62	0.00	-11.62	
Heathland and shrub - Gorse scrub	Heathland and shrub	0.00	0.00	0.00	
Heathland and shrub - Hawthorn scrub	Heathland and shrub	0.00	0.00	0.00	
Heathland and shrub - Hazel scrub	Heathland and shrub	0.00	0.00	0.00	
Heathland and shrub - Mixed scrub	Heathland and shrub	-3.60	0.00	-3.60	
Lakes - Ponds (Non- Priority Habitat)	Lakes	0.00	0.00	0.00	0.00
Lakes - Reservoirs	Lakes	0.00	0.00	0.00	
Sparsely vegetated land - Other inland rock and scree	Sparsely vegetated land	0.00	0.00	0.00	0.00
Urban - Cemeteries and churchyards	Urban	0.00	0.00	0.00	
Urban - Biodiverse green roof	Urban	0.00	0.00	0.00	0.00
Urban - Urban Tree	Urban	0.00	0.00	0.00	
Woodland and forest - Other Scot's Pine woodland	Woodland and forest	0.00	0.00	0.00	
Woodland and forest - Other woodland, broadleaved	Woodland and forest	-0.26	0.00	-0.26	-0.26
Woodland and forest - Other woodland, mixed	Woodland and forest	0.00	0.00	0.00	0.00
Intertidal sediment - Littoral coarse sediment	Intertidal sediment	0.00	0.00	0.00	
Intertidal sediment - Littoral sand	Intertidal sediment	0.00	0.00	0.00	
Intertidal Hard Structures - Artificial hard structures with Integrated Greening of Grey Infrastructure (IGGI)	Intertidal	0.00	0.00	0.00	
		-17.69	0.00	-17.69	

Medium Distinctiveness Summary	
Medium Distinctiveness Units available to offset lower distinctiveness deficit	0.00
Medium Distinctiveness Broad Habitat Deficit to be offset by trading up	-17.69
Higher distinctiveness surplus units minus Medium Distinctiveness Broad Habitat Deficit	0.00
Cumulative surplus of units	0.00

Low Distinctiveness					
Habitat group	Group	On site unit change	Off Site Unit Change	Project wide unit change	
Cropland - Cereal crops	Cropland	0.00	0.00	0.00	0.00
Cropland - Horticulture	Cropland	0.00	0.00	0.00	
Cropland - Intensive orchards	Cropland	0.00	0.00	0.00	
Cropland - Non-cereal crops	Cropland	0.00	0.00	0.00	
Cropland - Temporary grass and clover leys	Cropland	0.00	0.00	0.00	
Cropland - Cereal crops winter stubble	Cropland	0.00	0.00	0.00	
Grassland - Modified grassland	Grassland	-12.92	0.00	-12.92	
Grassland - Bracken	Grassland	0.00	0.00	0.00	
Heathland and shrub - Rhododendron scrub	Heathland and shrub	0.00	0.00	0.00	
Lakes - Ornamental lake or pond	Lakes	0.00	0.00	0.00	
Sparsely vegetated land - Ruderal/Ephemeral	Sparsely vegetated land	0.00	0.00	0.00	0.00
Urban - Bioswale	Sparsely vegetated land	0.00	0.00	0.00	
Urban - Allotments	Urban	0.00	0.00	0.00	0.00
Urban - Facade-bound green wall	Urban	0.00	0.00	0.00	
Urban - Ground based green wall	Urban	0.00	0.00	0.00	
Urban - Ground level planters	Urban	0.00	0.00	0.00	
Urban - Other green roof	Urban	0.00	0.00	0.00	
Urban - Intensive green roof	Urban	0.00	0.00	0.00	
Urban - Introduced shrub	Urban	0.00	0.00	0.00	
Urban - Rain garden	Urban	0.00	0.00	0.00	
Urban - Actively worked sand pit quarry or open cast mine	Urban	0.00	0.00	0.00	
Urban - Sustainable urban drainage feature	Urban	0.00	0.00	0.00	
Urban - Vacant/derelict land/ bareground	Urban	0.00	0.00	0.00	
Urban - Vegetated garden	Urban	0.00	0.00	0.00	
Woodland and forest - Other coniferous woodland	Woodland and forest	0.00	0.00	0.00	
Coastal saltmarsh - Artificial saltmarshes and saline reedbeds	Coastal saltmarsh	0.00	0.00	0.00	
Intertidal sediment - Artificial littoral coarse sediment	Intertidal sediment	0.00	0.00	0.00	
Intertidal sediment - Artificial littoral mud	Intertidal sediment	0.00	0.00	0.00	
Intertidal sediment - Artificial littoral sand	Intertidal sediment	0.00	0.00	0.00	
Intertidal sediment - Artificial littoral muddy sand	Intertidal sediment	0.00	0.00	0.00	
Intertidal sediment - Artificial littoral mixed sediments	Intertidal sediment	0.00	0.00	0.00	
Intertidal sediment - Artificial littoral seagrass	Intertidal sediment	0.00	0.00	0.00	
Intertidal sediment - Artificial littoral biogenic reefs	Intertidal sediment	0.00	0.00	0.00	
Intertidal Hard Structures - Artificial hard structures	Intertidal	0.00	0.00	0.00	
Intertidal Hard Structures - Artificial features of hard structures	Intertidal	0.00	0.00	0.00	
Heathland and shrub - Sea buckthorn scrub (other)	Heathland and shrub	0.00	0.00	0.00	
		-12.92		-12.92	

Low Distinctiveness Summary	
Low Distinctiveness Net Change in Units	-12.92
Cumulative surplus of units	-12.92



<b>Humber Zero</b>	
<b>A-1 Site Habitat Baseline</b>	
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Ref	Habitats and areas		Distinctiveness		Condition		Strategic significance			Suggested action to address habitat losses	Ecological baseline Total habitat units	Retention category biodiversity value					Bespoke compensation agreed for unacceptable losses	Comments		
	Broad Habitat	Habitat Type	Area (hectares)	Distinctiveness	Score	Condition	Score	Strategic significance	Strategic significance			Strategic significance multiplier	Area retained	Area enhanced	Baseline units retained	Baseline units enhanced		Area habitat lost	Units lost	Assessor comments
1	Grassland	Modified grassland	0.646	Low	2	Good	3	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same distinctiveness or better habitat required ≥	3.88	0	0	0.00	0.00	0.65	3.88	Passes 7 of 7 criteria.	
2	Grassland	Modified grassland	1.8	Low	2	Poor	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same distinctiveness or better habitat required ≥	3.60	0	0	0.00	0.00	1.80	3.60	Largely passes a maximum 4 of 7 criteria but fails essential criteria 1. Fails Criteria 1 and 2 due to homogeneous nature of species composition and structure of the sward, and Criteria 3 due to encroaching bramble scrub.	
3	Grassland	Modified grassland	0.04	Low	2	Poor	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same distinctiveness or better habitat required ≥	0.08	0	0	0.00	0.00	0.04	0.08	Largely passes a maximum 4 of 7 criteria but fails essential criteria 1. Fails Criteria 1 and 2 due to homogeneous nature of species composition and structure of the sward, and Criteria 3 due to encroaching bramble scrub.	
4	Grassland	Modified grassland	2.662	Low	2	Poor	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same distinctiveness or better habitat required ≥	5.32	0	0	0.00	0.00	2.66	5.32	Largely passes a maximum 4 of 7 criteria but fails essential criteria 1.	
5	Grassland	Other neutral grassland	0.277	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)	2.22	0	0	0.00	0.00	0.28	2.22	Passes 5 of 6 criteria. Fails Criteria 6 required for 'Good' condition due to insufficient plant species diversity.	
6	Heathland and shrub	Bramble scrub	0.168	Medium	4	Condition Assessment N/A	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same broad habitat or a higher distinctiveness habitat required	0.67	0	0	0.00	0.00	0.17	0.67	No condition assessment required.	
7	Heathland and shrub	Bramble scrub	0.052	Medium	4	Condition Assessment N/A	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same broad habitat or a higher distinctiveness habitat required	0.21	0	0	0.00	0.00	0.05	0.21	No condition assessment required.	
8	Heathland and shrub	Bramble scrub	0.081	Medium	4	Condition Assessment N/A	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same broad habitat or a higher distinctiveness habitat required	0.32	0	0	0.00	0.00	0.08	0.32	No condition assessment required.	
9	Heathland and shrub	Bramble scrub	0.023	Medium	4	Condition Assessment N/A	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same broad habitat or a higher distinctiveness habitat required	0.09	0	0	0.00	0.00	0.02	0.09	No condition assessment required.	
10	Heathland and shrub	Bramble scrub	0.386	Medium	4	Condition Assessment N/A	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same broad habitat or a higher distinctiveness habitat required	1.54	0	0	0.00	0.00	0.39	1.54	No condition assessment required.	
11	Heathland and shrub	Bramble scrub	1.486	Medium	4	Condition Assessment N/A	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same broad habitat or a higher distinctiveness habitat required	5.94	0	0	0.00	0.00	1.49	5.94	No condition assessment required.	
12	Heathland and shrub	Bramble scrub	0.199	Medium	4	Condition Assessment N/A	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same broad habitat or a higher distinctiveness habitat required	0.80	0	0	0.00	0.00	0.20	0.80	No condition assessment required.	
13	Heathland and shrub	Bramble scrub	0.189	Medium	4	Condition Assessment N/A	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same broad habitat or a higher distinctiveness habitat required	0.76	0	0	0.00	0.00	0.19	0.76	No condition assessment required.	
14	Heathland and shrub	Bramble scrub	0.039	Medium	4	Condition Assessment N/A	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same broad habitat or a higher distinctiveness habitat required	0.16	0	0	0.00	0.00	0.04	0.16	No condition assessment required.	
15	Heathland and shrub	Bramble scrub	0.013	Medium	4	Condition Assessment N/A	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same broad habitat or a higher distinctiveness habitat required	0.05	0	0	0.00	0.00	0.01	0.05	No condition assessment required.	
16	Heathland and shrub	Bramble scrub	0.072	Medium	4	Condition Assessment N/A	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same broad habitat or a higher distinctiveness habitat required	0.29	0	0	0.00	0.00	0.07	0.29	No condition assessment required.	
17	Heathland and shrub	Bramble scrub	0.154	Medium	4	Condition Assessment N/A	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same broad habitat or a higher distinctiveness habitat required	0.62	0	0	0.00	0.00	0.15	0.62	No condition assessment required.	
18	Heathland and shrub	Bramble scrub	0.033	Medium	4	Condition Assessment N/A	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same broad habitat or a higher distinctiveness habitat required	0.13	0	0	0.00	0.00	0.03	0.13	No condition assessment required.	
19	Heathland and shrub	Bramble scrub	0.011	Medium	4	Condition Assessment N/A	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same broad habitat or a higher distinctiveness habitat required	0.04	0	0	0.00	0.00	0.01	0.04	No condition assessment required.	
20	Heathland and shrub	Mixed scrub	0.081	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)	0.65	0	0	0.00	0.00	0.08	0.65	Largely passes a maximum 3 of 5 criteria. Fails Criteria 2 due to similar young age range of shrubs, and Criteria 5 due to the areas of scrub not being suitably large enough, or possessing clearings and sheltered edges.	
21	Heathland and shrub	Mixed scrub	0.026	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)	0.21	0	0	0.00	0.00	0.03	0.21	Largely passes a maximum 3 of 5 criteria. Fails Criteria 2 due to similar young age range of shrubs, and Criteria 5 due to the areas of scrub not being suitably large enough, or possessing clearings and sheltered edges.	
22	Heathland and shrub	Mixed scrub	0.033	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)	0.26	0	0	0.00	0.00	0.03	0.26	Largely passes a maximum 3 of 5 criteria. Fails Criteria 2 due to similar young age range of shrubs, and Criteria 5 due to the areas of scrub not being suitably large enough, or possessing clearings and sheltered edges.	
23	Heathland and shrub	Mixed scrub	0.088	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)	0.70	0	0	0.00	0.00	0.09	0.70	Largely passes a maximum 3 of 5 criteria. Fails Criteria 2 due to similar young age range of shrubs, and Criteria 5 due to the areas of scrub not being suitably large enough, or possessing clearings and sheltered edges.	
24	Heathland and shrub	Mixed scrub	0.15	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)	0.60	0	0	0.00	0.00	0.15	0.60	Largely passes a maximum 2 of 5 criteria. Fails Criteria 1 as it is often dominated by a single species, Criteria 2 due to similar young age range of shrubs, and Criteria 5 due to the areas of scrub not being suitably large enough, or possessing clearings and sheltered edges.	
25	Heathland and shrub	Mixed scrub	0.013	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)	0.05	0	0	0.00	0.00	0.01	0.05	Largely passes a maximum 2 of 5 criteria. Fails Criteria 1 as it is often dominated by a single species, Criteria 2 due to similar young age range of shrubs, and Criteria 5 due to the areas of scrub not being suitably large enough, or possessing clearings and sheltered edges.	
26	Heathland and shrub	Mixed scrub	0.005	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	0	0	0.00	0.00	0.01	0.02	Largely passes a maximum 2 of 5 criteria. Fails Criteria 1 as it is often dominated by a single species, Criteria 2 due to similar young age range of shrubs, and Criteria 5 due to the areas of scrub not being suitably large enough, or possessing clearings and sheltered edges.	
27	Heathland and shrub	Mixed scrub	0.005	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	0	0	0.00	0.00	0.01	0.02	Largely passes a maximum 2 of 5 criteria. Fails Criteria 1 as it is often dominated by a single species, Criteria 2 due to similar young age range of shrubs, and Criteria 5 due to the areas of scrub not being suitably large enough, or possessing clearings and sheltered edges.	
28	Heathland and shrub	Mixed scrub	0.041	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)	0.16	0	0	0.00	0.00	0.04	0.16	Largely passes a maximum 2 of 5 criteria. Fails Criteria 1 as it is often dominated by a single species, Criteria 2 due to similar young age range of shrubs, and Criteria 5 due to the areas of scrub not being suitably large enough, or possessing clearings and sheltered edges.	
29	Heathland and shrub	Mixed scrub	0.099	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)	0.40	0	0	0.00	0.00	0.10	0.40	Largely passes a maximum 2 of 5 criteria. Fails Criteria 1 as it is often dominated by a single species, Criteria 2 due to similar young age range of shrubs, and Criteria 5 due to the areas of scrub not being suitably large enough, or possessing clearings and sheltered edges.	
30	Heathland and shrub	Mixed scrub	0.01	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)	0.04	0	0	0.00	0.00	0.01	0.04	Largely passes a maximum 2 of 5 criteria. Fails Criteria 1 as it is often dominated by a single species, Criteria 2 due to similar young age range of shrubs, and Criteria 5 due to the areas of scrub not being suitably large enough, or possessing clearings and sheltered edges.	



Total area lost (excluding area of Urban trees and Green walls)	13.35
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C-1 Site River Baseline

Condense / Show Columns

Condense / Show Rows

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Existing river type			Habitat distinctiveness	Habitat condition	Strategic significance	Watercourse encroachment	Riparian encroachment	Suggested action	Ecological baseline	Retention category biodiversity value						Comments	
Baseline ref	River type	Length (km)	Distinctiveness	Condition	Strategic significance	Extent of encroachment	Extent of encroachment		Total river units	Length retained	Length enhanced	Units retained	Units enhanced	Length Lost	Units Lost	Assessor Comments	Reviewer comments
1	Ditches	0.522	Medium	Moderate	Low potential/action not identified in any plan	No Encroachment	No Encroachment	Restore	4.18	0		0.00	0.00	0.52	4.18	Entire drain to be filled in and re-routed. Passes 6 of 8 criteria. Fails Criteria 1 due to being heavily dependent on effluent from nearby refineries and runoff and Criteria 2 due to a lack of plant species diversity.	
2	Ditches	0.104	Medium	Moderate	Low potential/action not identified in any plan	No Encroachment	Major	Restore	0.62	0.084		0.50	0.00	0.02	0.12	Rosper Road drain. Approximate 20m stretch to be culverted permanently to facilitate new Site access. Passes 6 of 8 criteria. Fails Criteria 1 due to being heavily dependent on effluent from nearby refineries and runoff and Criteria 2 due to a lack of plant species diversity.	
3																	
4																	
5																	
6																	
7																	
		0.63							4.80	0.08	0.00	0.50	0.00	0.54	4.30		

C-2 Site River Creation

Condense / Show Columns

Condense / Show Rows

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Baseline ref	Proposed habitats		Habitat distinctiveness	Habitat condition	Strategic significance	Temporal multiplier		Difficulty multipliers	Watercourse encroachment	Riparian encroachment	River units delivered	Comments	
	River type	Length (km)	Distinctiveness	Condition	Strategic significance	Standard or adjusted time to target condition	Final time to target condition/years	Final difficulty of creation	Extent of encroachment	Extent of encroachment		Assessor comments	Reviewer comments
1	Ditches	0.441	Medium	Moderate	Low potential/action not identified in any plan	Standard time to target condition applied	5	Low	No Encroachment	Major	2.21	New drain will be identical to current drain in profile and serve the same function. Additional riparian encroachment will occur with the development of the Site.	
2	Culvert	0.137	Low	Poor	Low potential/action not identified in any plan	Standard time to target condition applied	1	Low	N/A - Culvert	Major	0.20	Culverted stretch to the west to allow for site access along the piperacks adjacent of the railway corridor.	
3	Culvert	0.02	Low	Poor	Low potential/action not identified in any plan	Standard time to target condition applied	1	Low	N/A - Culvert	Major	0.03	New site access off Rosper Road.	
4													
5													
6													
7													
8													
		0.60									2.44		