

Table S2: Components and their associated variables for the PCA at Landscape, local and microhabitat scales. +/- values indicate a positive or negative association with each variable within the component

PCA component	% Variance	Represents	Loadings	Association with variables
Landscape 1	43.3	Urbanisation	-0.86 0.84 0.83 0.80 0.78 -0.77	1km % vegetation, 1km % hard surface Housing density Population density Site distance to bushland Site distance to CBD
Landscape 2	13.9	Socioeconomics	0.84 -0.83	Site distance to parkland Average house hold income
Landscape 3	12.4	Less grass, close to water	-0.53 0.84	1km % grass site distance to water
Landscape 4	9.0	Proximity to coast	-0.77 0.61	Site distance to coast 1km % water
Local 1	42.1	Urbanisation	-0.96 0.77 0.76 0.71	Site % vegetation Site % grass Site % hard surfaces Site % buildings
Local 2	26.4	Larger and less elongated sites	0.89 0.84 -0.80 0.42	Perimeter (m) Site Area (m2) Shape Site % water
Microhabitat 1	27.5	Further from urban disturbance	0.94 0.92 0.79 0.76 0.66	Distance to hard surface Distance to open space Distance to edge Distance to buildings 10m %water
Microhabitat 2	17.4	Less urbanised microhabitat	-0.92 -0.84 0.75	10m % hard surfaces Man-made structures 10m % vegetation
Microhabitat 3	10.8	Groundcover complexity	-0.89 0.61	10m % grass Leaf litter
Microhabitat 4	8.5	Habitat complexity	0.83 0.63 0.60	Tree density Total habitat quality Tree canopy cover
Microhabitat 5	8.0	Vegetation density	0.77 0.61 0.47	Ground vegetation cover Distance to water Shrub cover