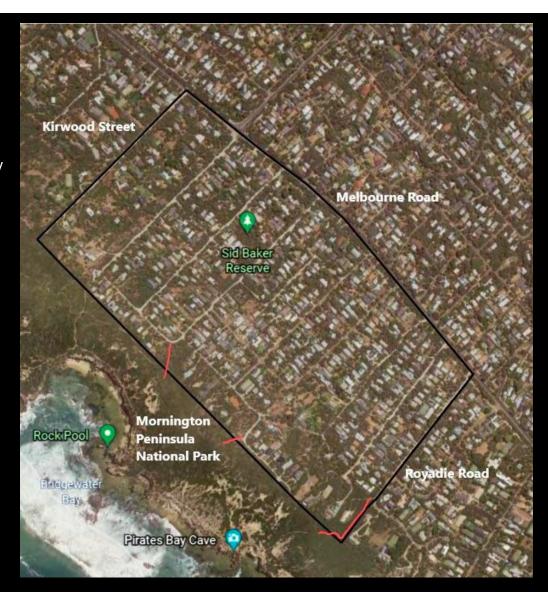


Bridgewater Bay, Blairgowrie

Aerial image – location of study site
Figure 1 from report

The approximately 61.2-hectare study area is bound by Kirwood Street to the north-west, Melbourne Road to the north-east, Royadie Road to the south-east and the Mornington Peninsula National Park to the south and south-west. The study area is known as the Bridgewater Bay precinct.

Bridgewater Bay is a distinct existing unmade roads precinct, with a designated 'neighbourhood character'. The study area is characterised by unmade roads, a proximity to the ocean and a treed canopy consisting of a mixture of indigenous, planted native and exotic species. Whilst the area is dominated by smaller blocks, there are some larger blocks that abut the National Park.



Colour	Indigenous Vegetation Cover Sites with NO (or very minimal) indigenous vegetation cover remaining This included sites that had been recently bulldozed of all vegetation cover Sites that were dominated by exotic gardens/vegetation Sites that had hard surfaces or were gravelled Areas of road reserve with no or only exotic vegetation Sites with only a few remnant trees remaining (ie: less than five remnant trees)					
Red						
Orange	Sites with Indigenous Trees and Shrubs Present (exotic groundstorey) If a site contained over five indigenous tree and/or shrub species it was automatically mapped as orange Trees could occur in patches or were scattered across the site The understorey beneath the trees varied from exotic grasses to landscaped gardens with a mixture of planted native and exotic species This category sometimes also contained 'indigenous bushland' gardens where they had been recently landscaped, and the gardens had been designed for aesthetic rather than habitat purposes- for example bush gardens in a gravelled setting					
Blue	Sites with Indigenous Trees and Shrubs Present and some Indigenous Groundstorey Species (less than 50% indigenous groundstorey cover) If a site contained indigenous trees and shrubs and groundstorey vegetation it was automatically mapped as blue or green; depending on the extent of indigenous groundstorey vegetation present Sites in this category were predominantly road reserves with a mixture of indigenous groundstorey and weeds Sites also included vacant blocks that were mown with 'islands' of indigenous vegetation, or blocks with older holiday houses/beach shacks					
Green	These were the most ecologically intact sites across the study area They contained indigenous trees, shrubs and groundstorey species and had few weed species (including any planted vegetation) These sites were limited to the two well- managed bushland reserves (E.G. Ritchie and Sid Baker Reserves), a few areas of road reserve (including the St Johns Wood Road linear strip), undeveloped larger blocks or the larger blocks that abut the National Park These blocks had the highest diversity and level of structural integrity in the study area					

5.3 Photographs of the Vegetation Mapping Categories

The images over the next pages provide examples of the different mapping categories/ indigenous vegetation condition observed across the study area:



Green- all three indigenous vegetation layers present (Kirwood Street)



Kirwood Street Road Reserve (blue)- less than 50% indigenous groundstorey cover



(Kirwood Street)



Green- St Johns Wood Road linear road reserve



Red- recently developed/remnant vegetation absent (St Johns Wood Rd)



Blue- Drainage Reserve (corner of Sinclair & **Summoner Streets**)



Blue- indigenous groundstorey vegetation in the lawn (Sinclair Street)



Orange- recently developed property with remnant trees and indigenous coastal landscaped garden (Dana Street)





Blue- indigenous front yard with managed remnant trees, shrubs & groundstorey vegetation (Arnold Street)



Blue-vacant block (corner Ritchie Street)



Red- only one remnant tree remaining (Ridley Street)



Orange- remnant trees and landscaped garden (Ridley Street)



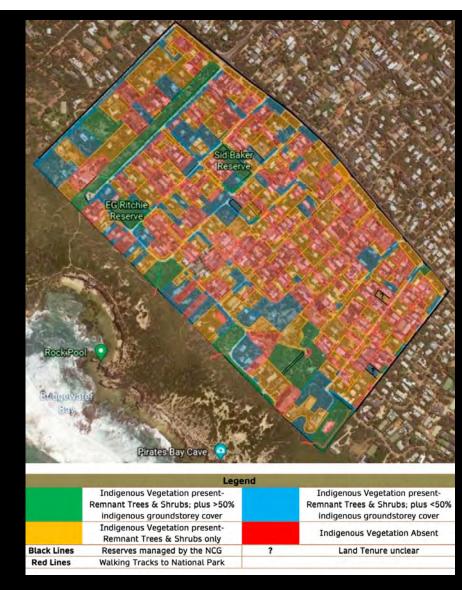
Blue- older beach house with remnant trees, shrubs & groundstorey (Knox Rd)



Blue-vacant block (Royadie Road)

Bridgewater Bay, Blairgowrie

Indigenous vegetation Cover Mapping across the study area Figure 2 from report



6. RESULTS- EVC MAPPING

According to the Department of Environment, Water, Land and Planning (DELWP) EVC mapping databases (NVIM and NatureKit) the entire study area is mapped as EVC 858: Coastal Alkaline Scrub. The study area is also mapped as EVC 858: Coastal Alkaline Scrub in the Mornington Peninsula Shire Councils' vegetation mapping database.

The EVC benchmark description for EVC 858: Coastal Alkaline Scrub (as defined by DELWP) is provided in Table 1 below. The study area is located in the Gippsland Plain bioregion.

Table 1. EVC Benchmark Description/s

EVC Number	Bioregional Conservation Status	EVC Name	Benchmark Description		
858	Vulnerable	Coastal Alkaline Scrub	Near-coastal, deep calcareous (alkaline) and larg stable sand dunes and swales commonly dominated Moonah <i>Melaleuca lanceolata ssp. lanceolata</i> .		
EVC=Ecological Vegetation Class CAS= Coastal Alkaline Scrub			It occurs at low elevations of 20-60 m above sea level average annual rainfall is approximately 550-950 mm and it occurs on a variety of geologies and soil types Low woodland or tall shrubland to 8 m tall, typically		
			with a medium shrub layer, small shrub layer and sedges, grasses and herbs in the ground layer. (DSE 2004).		

6.3 Photographs of the EVC Mapping Categories

The images below provide examples of the different EVCs/floristic communities mapped across the study area:



CAS- Stages 1 & 2 (St Johns Wood Road linear road reserve)

CAS- Stage 2 (St Johns Wood Road linear road reserve)



EVC=Ecological Vegetation Class CAS= Coastal Alkaline Scrub









CAS- Disturbed (7-9 Cowper Street)

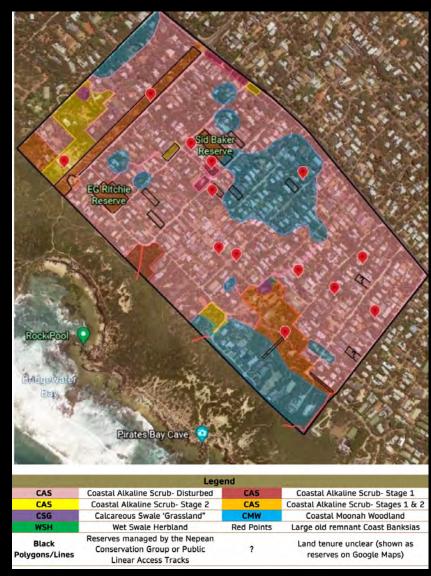
EVC=Ecological Vegetation Class CAS= Coastal Alkaline Scrub

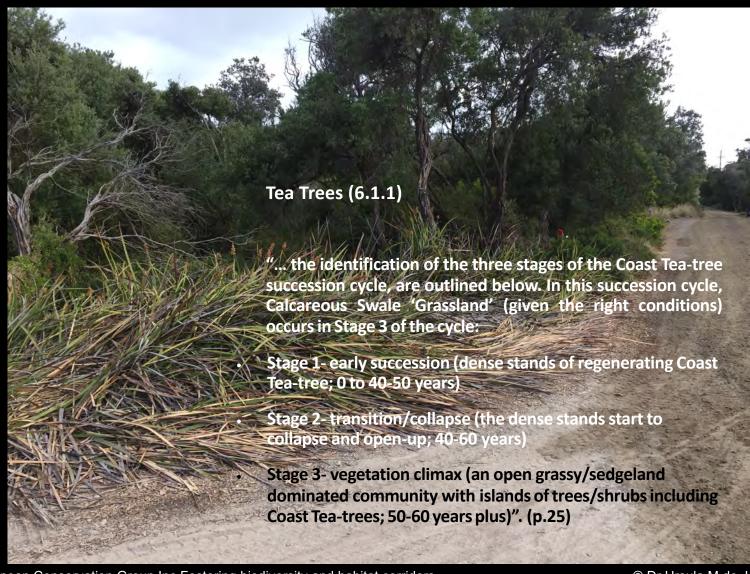


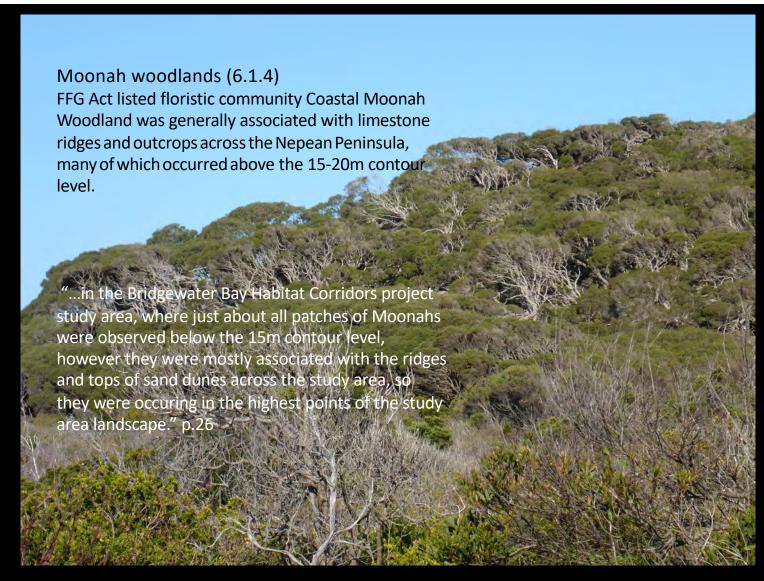
EVC=Ecological Vegetation Class CAS= Coastal Alkaline Scrub EVC A309= Calcareous Swale Graassland Wood Road linear road reserve)

Bridgewater Bay, Blairgowrie

EVC Ecological Vegetation Class Mapping of the study area Figure 7 from report







6.1.5Coast Banksias across the Landscape

The location of large old remnant Coast Banksias were mapped as part of the Calcareous Swale 'Grassland' project undertaken for the MPSC to test a hypothesis from previous vegetation mapping work in the Peninsula (The vegetation of the Nepean Peninsula, Victoria — an historical perspective'; Moxham et al, 2009); that Coast Banksias are an indicator species of the former presence of Calcareous Swale 'Grassland' acrossthe Nepean Peninsula

To complement the large old remnant Coast Banksia mapping undertaken as part of the Calcareous Swale 'Grassland' project, they were also mapped for the Bridgewater Bay Habitat Corridors (BBHC) project when observed.

All these large old remnant Coast Banksias are significant species within the study area, that should be protected if possible.





7. The Bridgewater Bay Habitat Corridors project observations and discussion and some recommendations

Figure 10 report

7.1.1 Land Tenure across the study area





- 7.1.3 Incremental vegetation / habitat loss
- 7.1.4 habitat corridors and indigenous vegetation mapping
- 7.1.5 Bushfire management
- 7.1.6 Flora and fauna data
- 7.1.7 Vacant Blocks/blue blocks plant salvage/ rescue prior to development
- 7.1.8 Large old remnant banksias
- 7.1.9EVCs/Declline of coast tea trees and the future study area



© Dr Ursula M de Jong

