

*Index of Estuary Condition 2021: Summary of fish information and vegetation maps for West Gippsland*

Presence (+)/absence (0) of fish taxa captured in West Gippsland estuaries during monitoring for Index of Estuary Condition 2021 (sampling between 2010 and 2019, using a combination of fyke netting and mesh netting, plus seine netting where feasible, in upper, middle and lower estuary in autumn). Common names of fish taxa are provided, with introduced taxa indicated by asterisk (\*). For a description of fish and vegetation monitoring methods and corresponding scientific names for fish refer to DELWP (2021) *Assessment of Victoria's estuaries using the Index of Estuary Condition: Background and Methods 2021*.

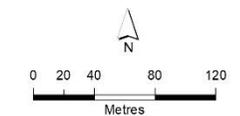
Common fish name	Bourne Creek (14)	Powlett River (70)	Wreck Creek (103)	Screw Creek (73)	Tarwin River (90)	Shallow Inlet (77)	Darby River (23)	Tidal River (93)	Chinaman Creek (21)	Old Hat Creek (66)	Stockyard Creek (85)	Bennison Creek (12)	Franklin River (31)	Agnes River (1)	Shady Creek (76)	Nine Mile Creek (65)	Albert River (3)	Tarra River (89)	Neils Creek (62)	Bruthen Creek (15)	Jack Smith Lake (37)	Lake Denison (42)	Merriman Creek (55)	Latrobe River (46)	Lake Wellington Main Drain (44)	Avon River (6)	
Adelaide Weedfish	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	
Australian Smelt	0	0	0	0	0	0	0	0	0	0	0	0	0	+	0	0	0	0	0	0	0	0	+	+	0	0	
Black Bream	0	+	0	+	+	0	0	+	+	0	0	0	0	0	0	0	0	0	+	+	0	0	+	0	0	0	
Black Sole	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	+	+	0	0	0	0	0	0	
Blue Weed Whiting	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	
Bluespotted Goatfish	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	
Bridled Goby	0	0	0	+	+	0	0	+	+	+	0	0	0	+	+	0	+	+	0	0	0	0	+	0	0	0	
Bridled Leatherjacket	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	+	0	0	0	0	0	0	0	0	
Cobbler	0	0	0	0	+	+	0	0	0	0	0	0	0	0	+	+	+	+	+	+	0	0	0	0	0	0	
Common Galaxias	+	0	0	0	0	0	+	0	+	0	0	0	0	+	+	0	0	0	0	0	0	0	0	0	+	0	
Dwarf Flathead Gudgeon	0	0	0	0	0	0	0	0	+	0	0	0	0	0	0	0	0	+	0	0	0	0	0	0	0	+	
Eastern Australian Salmon	0	+	0	0	0	0	0	+	0	+	0	0	0	+	0	0	0	0	0	0	0	0	0	0	0	0	
Eastern Bluespot Goby	+	+	+	+	+	0	0	+	+	+	0	0	+	+	+	+	0	+	+	+	0	0	+	0	+	0	
Eastern Fortescue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	+	+	0	0	0	0	0	0	
Eastern Gambusia*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	+	+	0	
Eastern School Whiting	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	
Estuary Perch	0	+	0	+	+	0	0	+	0	+	+	0	+	+	0	0	+	+	0	+	0	0	+	+	0	0	
European Carp*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	+	+	+	
Flathead Gudgeon	0	+	+	+	+	0	+	+	+	+	0	0	0	+	0	0	+	+	0	0	0	0	+	+	+	+	
Girdled Goby	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	
Glass Goby	0	0	0	+	0	0	0	0	0	+	+	+	+	+	0	0	+	0	0	0	0	0	0	0	+	+	0
Golden Perch*	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	+	
Goldspot Mullet	0	0	0	0	0	0	0	+	+	0	0	0	0	0	+	+	0	0	+	0	0	0	+	0	0	0	
Greenback Flounder	0	+	0	0	0	+	0	0	0	+	0	0	0	+	0	0	+	0	+	+	0	0	+	0	0	0	
Half Bridled Goby	0	0	0	0	0	0	0	0	0	+	+	0	0	0	+	+	+	+	0	0	0	0	0	0	0	0	
King George Whiting	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	
Lagoon Goby	0	+	0	0	+	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Longfinned Eel	0	0	0	0	0	0	0	0	0	0	0	0	0	+	0	0	0	+	0	0	0	0	0	0	+	0	
Longsnout flounder	0	+	0	0	0	0	0	+	0	0	0	0	0	0	0	0	0	0	0	0	0	0	+	0	0	0	
Luderick	0	+	0	0	0	+	0	+	+	0	0	0	+	+	+	+	0	+	+	+	0	0	+	0	0	0	
Old Wife	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	
Pale Mangrove Goby	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	
Pikehead Hardyhead	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	+	+	+	0	0	0	0	0	0	0	0	
Port Jackson Glassfish	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	+	0	+	0	0	0	0	0	0	
Prickly Toadfish	0	0	0	0	0	+	0	0	0	0	0	0	0	0	0	0	0	+	0	0	0	0	0	0	0	0	



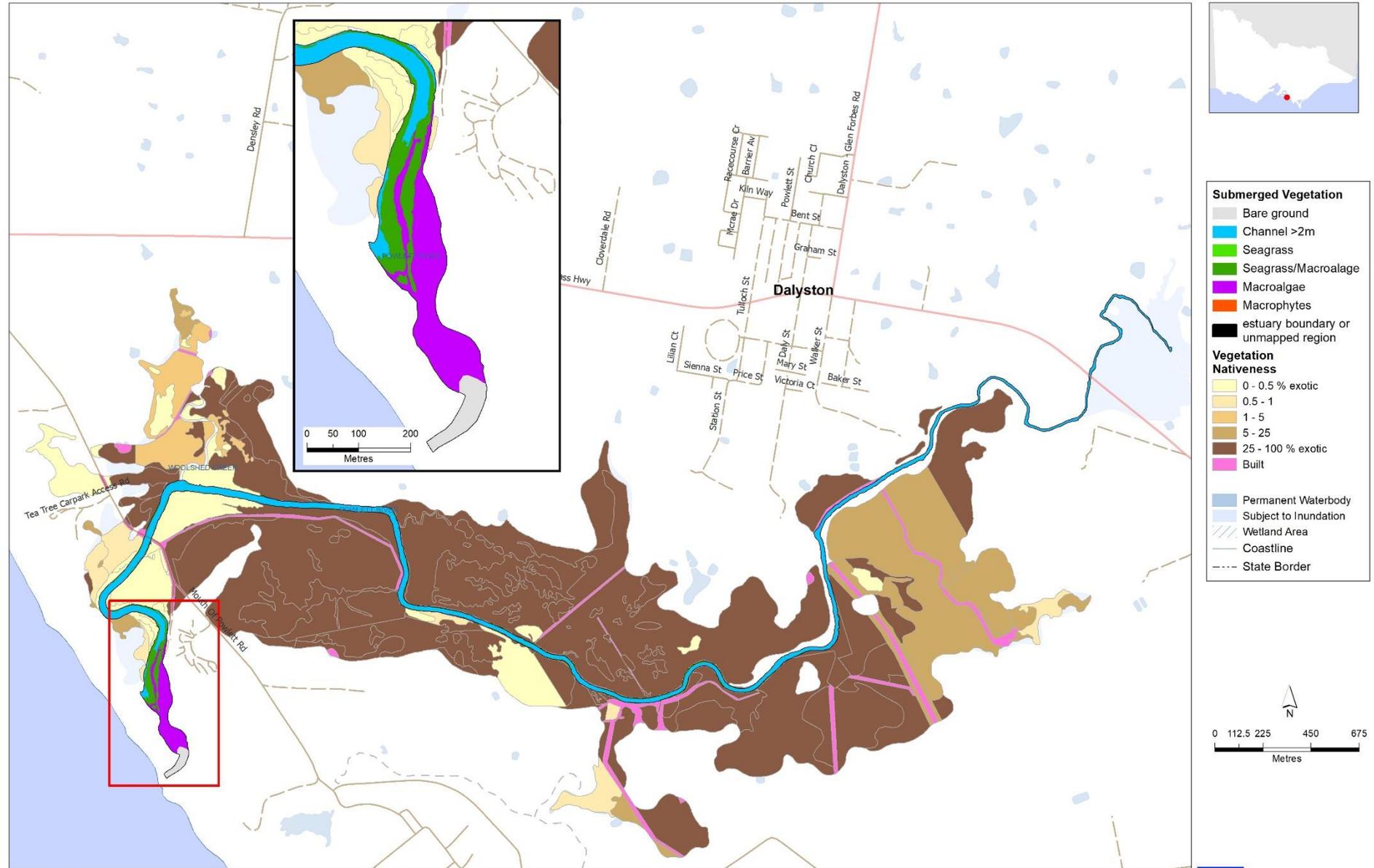
### Bourne Creek



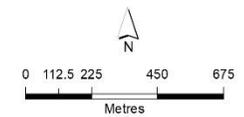
- Submerged Vegetation**
- Bare ground
  - Channel >2m
  - Seagrass
  - Seagrass/Macroalage
  - Macroalgae
  - Macrophytes
  - estuary boundary or unmapped region
- Vegetation Nativeness**
- 0 - 0.5 % exotic
  - 0.5 - 1
  - 1 - 5
  - 5 - 25
  - 25 - 100 % exotic
  - Built
- Other Features**
- Permanent Waterbody
  - Subject to Inundation
  - Wetland Area
  - Coastline
  - State Border



Powlett River

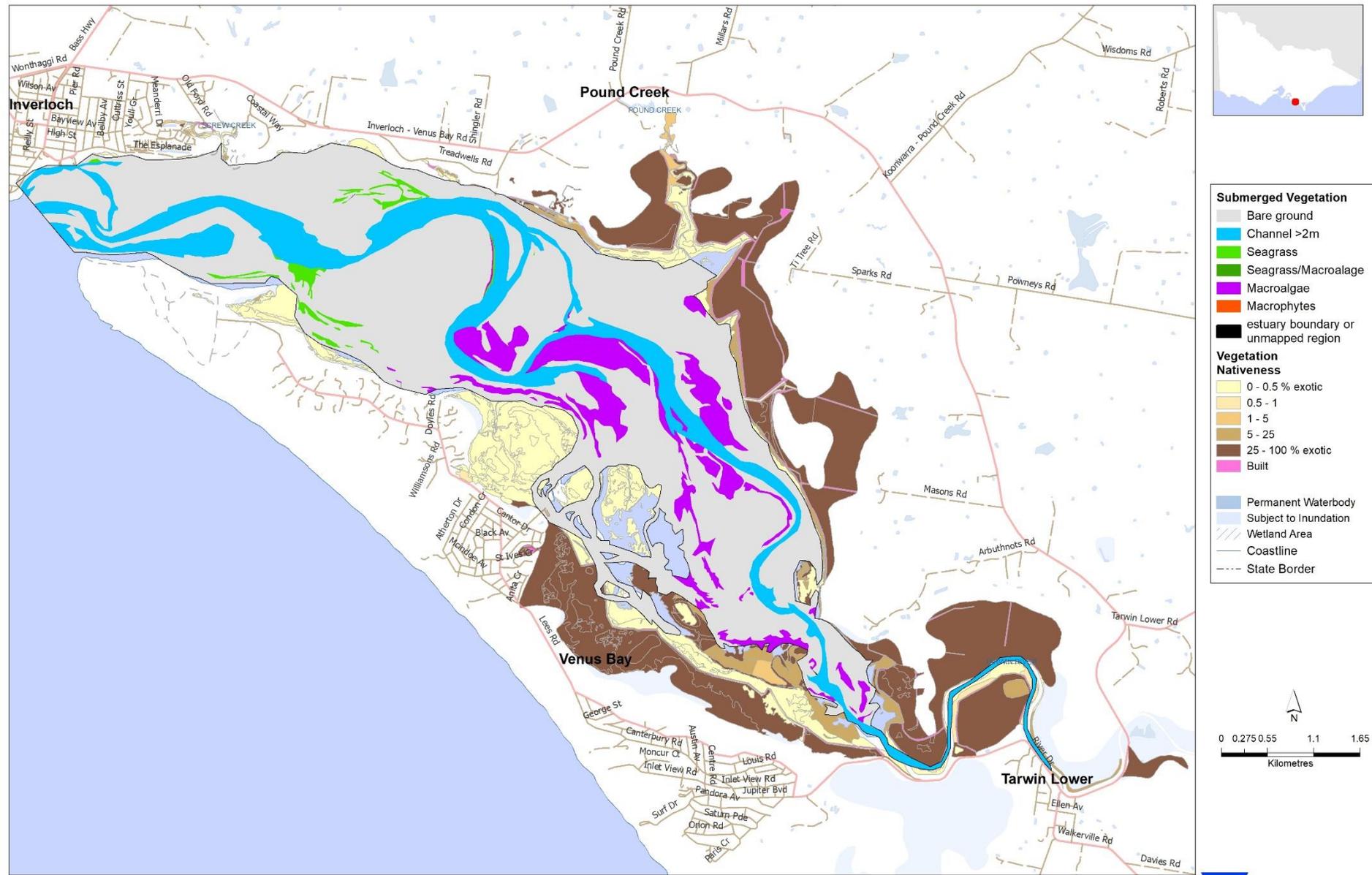


- Submerged Vegetation**
- Bare ground
  - Channel >2m
  - Seagrass
  - Seagrass/Macroalage
  - Macroalgae
  - Macrophytes
  - estuary boundary or unmapped region
- Vegetation Nativeness**
- 0 - 0.5 % exotic
  - 0.5 - 1
  - 1 - 5
  - 5 - 25
  - 25 - 100 % exotic
  - Built
- Permanent Waterbody  
 ■ Subject to Inundation  
 ▨ Wetland Area  
 — Coastline  
 - - - State Border

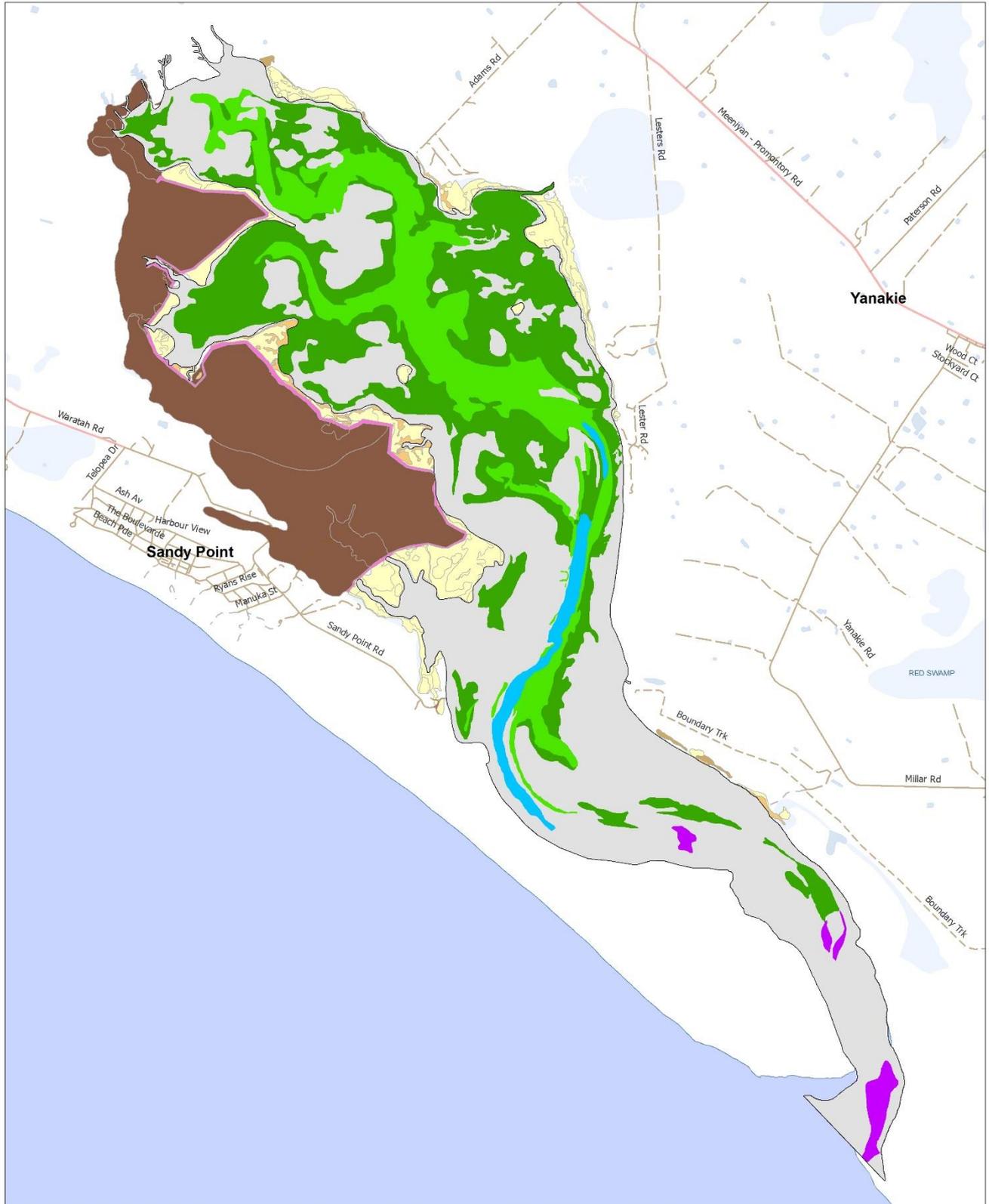




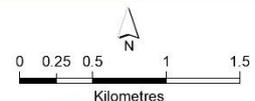
### Tarwin River and Anderson Inlet



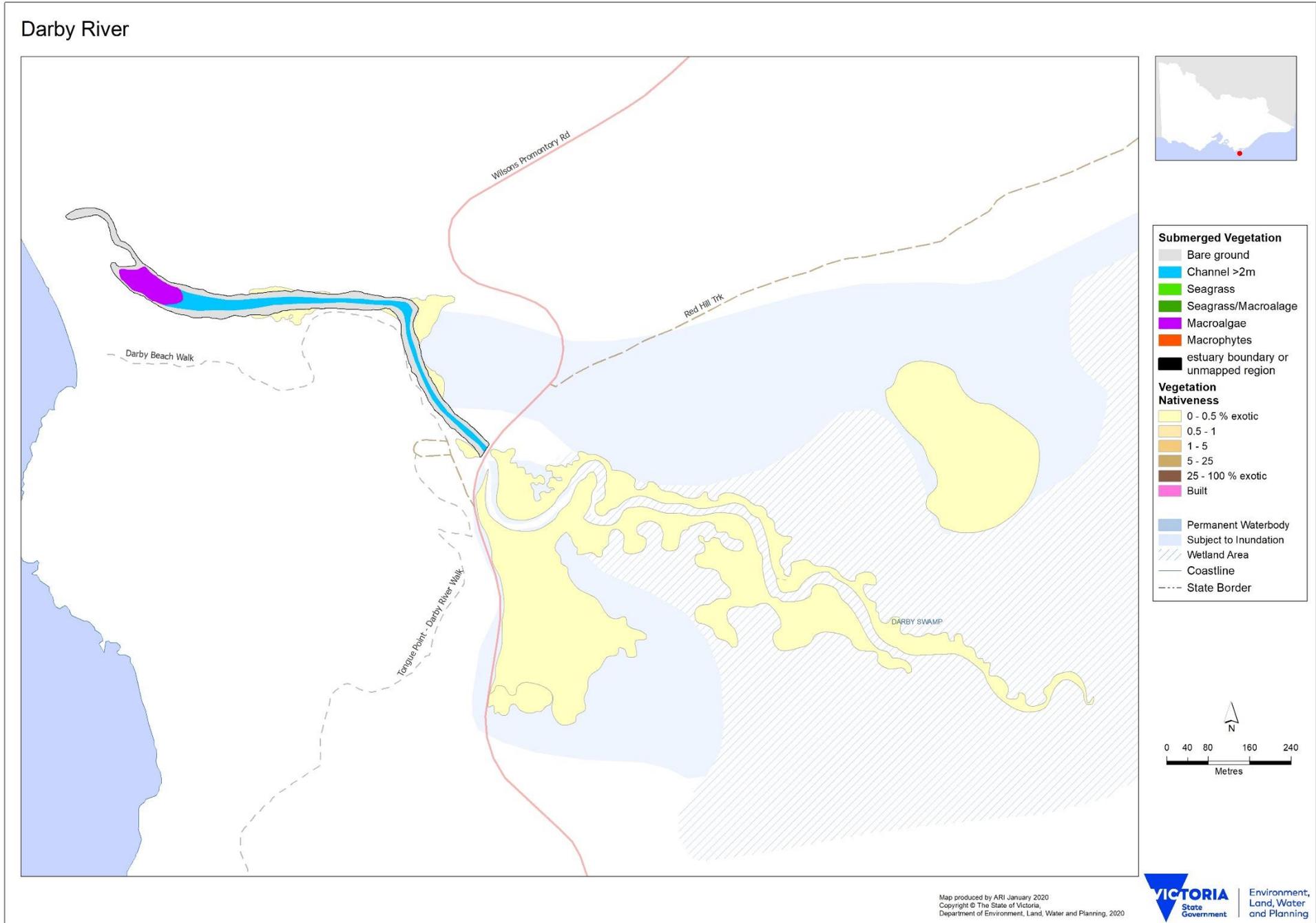
### Shallow Inlet

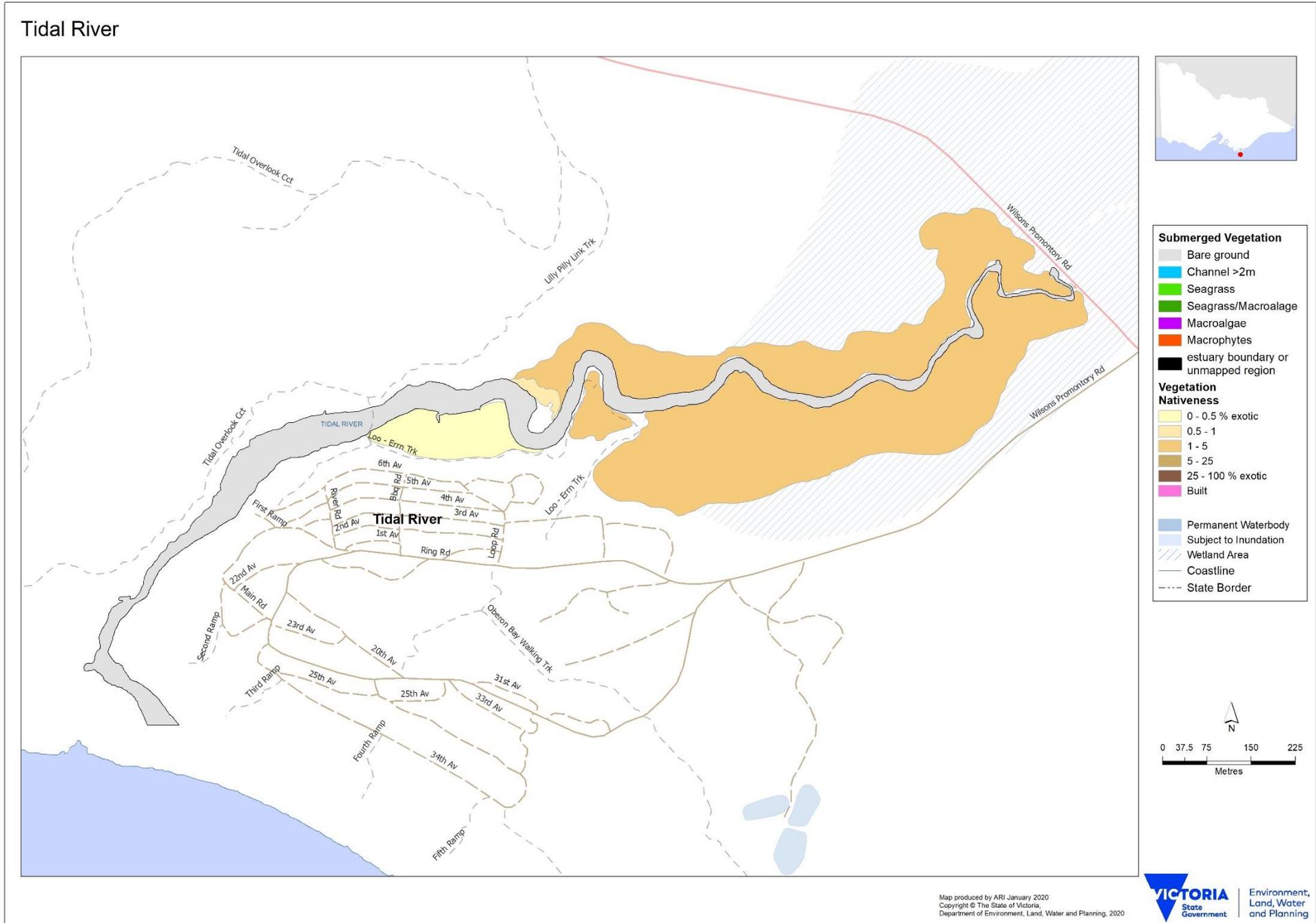


Submerged Vegetation	Vegetation Nativeness	Other Features
Grey: Bare ground	Light yellow: 0 - 0.5 % exotic	Blue: Permanent Waterbody
Blue: Channel >2m	Yellow: 0.5 - 1	Light blue: Subject to Inundation
Green: Seagrass	Orange: 1 - 5	Blue hatched: Wetland Area
Light green: Seagrass/Macroalage	Brown: 5 - 25	Blue dashed: Coastline
Purple: Macroalgae	Dark brown: 25 - 100 % exotic	Black dashed: State Border
Orange: Macrophytes	Pink: Built	
Black: estuary boundary or unmapped region		



VICTORIA State Government  
 Environment, Land, Water and Planning  
 Map produced by ARI January 2020  
 Copyright © The State of Victoria, Department of Environment, Land, Water and Planning, 2020









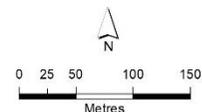
### Miranda Creek



**Vegetation Nativeness**

- 0 - 0.5 % exotic
- 0.5 - 1
- 1 - 5
- 5 - 25
- 25 - 100 % exotic
- Built
- estuary boundary or unmapped region

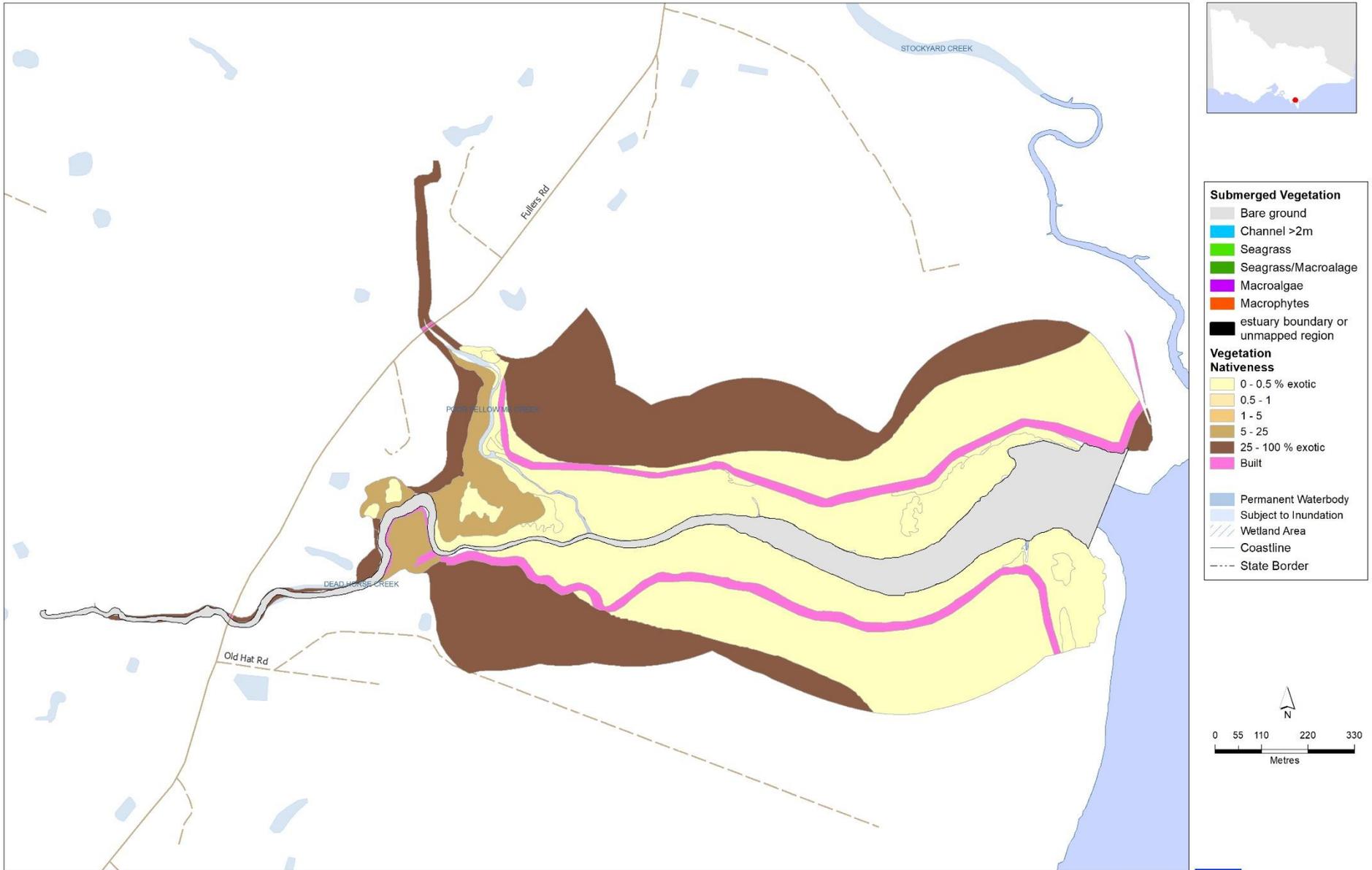
Permanent Waterbody  
Subject to Inundation  
Wetland Area  
Coastline  
State Border



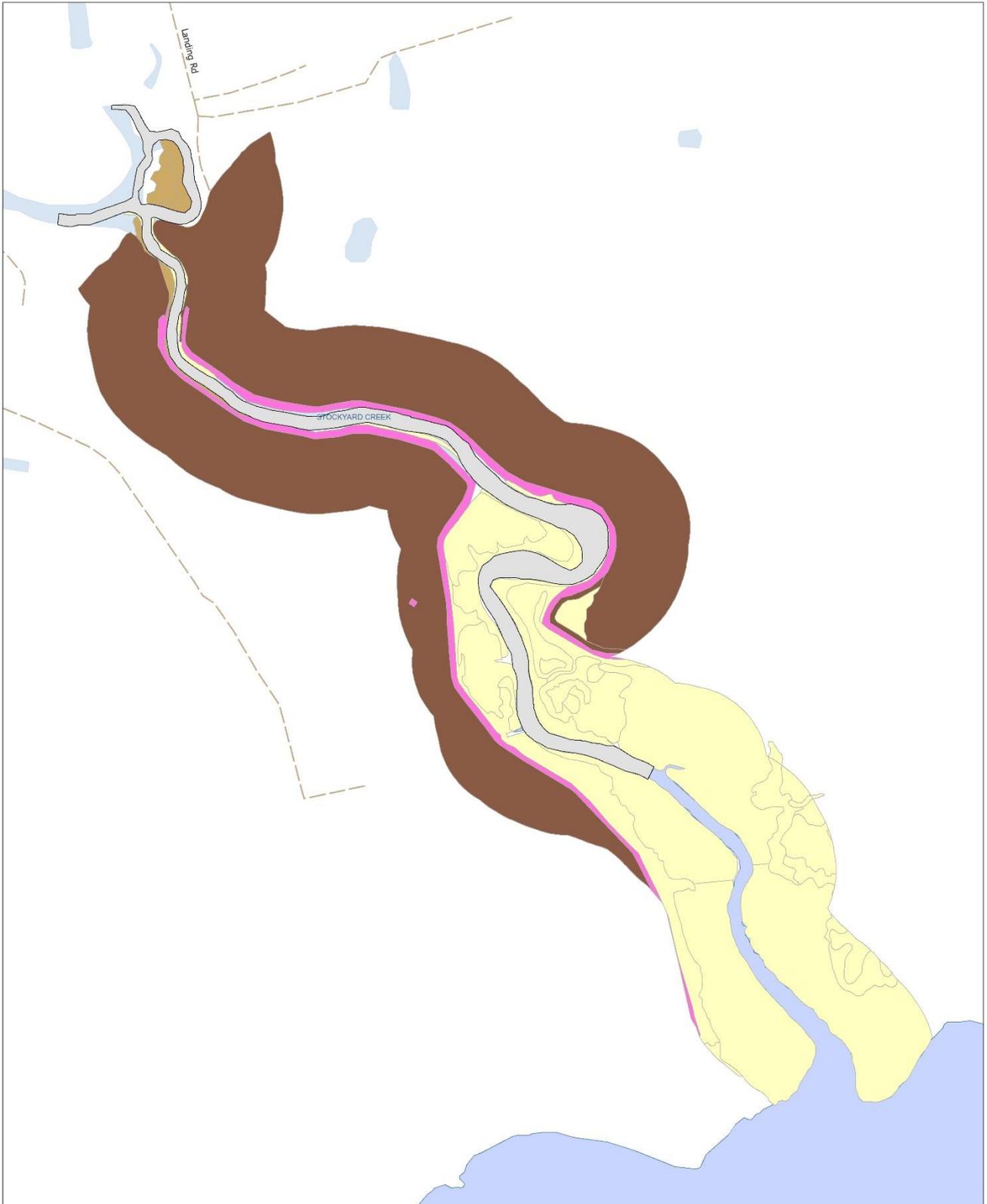
### Chinaman Creek



### Old Hat Creek



### Stockyard Creek

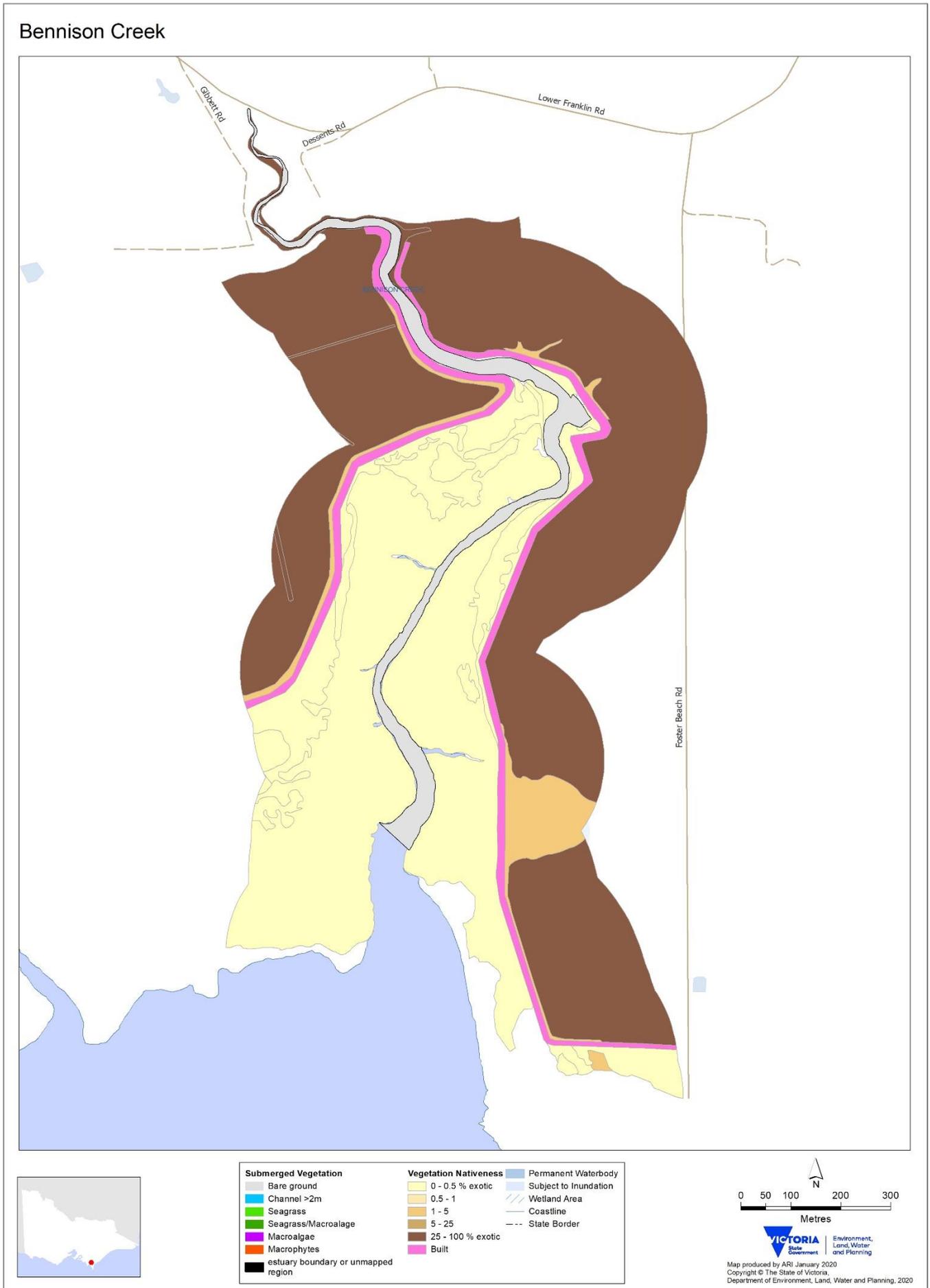


Submerged Vegetation	Vegetation Nativeness	Permanent Waterbody
Bare ground	0 - 0.5 % exotic	Subject to Inundation
Channel >2m	0.5 - 1	Wetland Area
Seagrass	1 - 5	Coastline
Seagrass/Macroalage	5 - 25	--- State Border
Macroalgae	25 - 100 % exotic	
Macrophytes	Built	
estuary boundary or unmapped region		

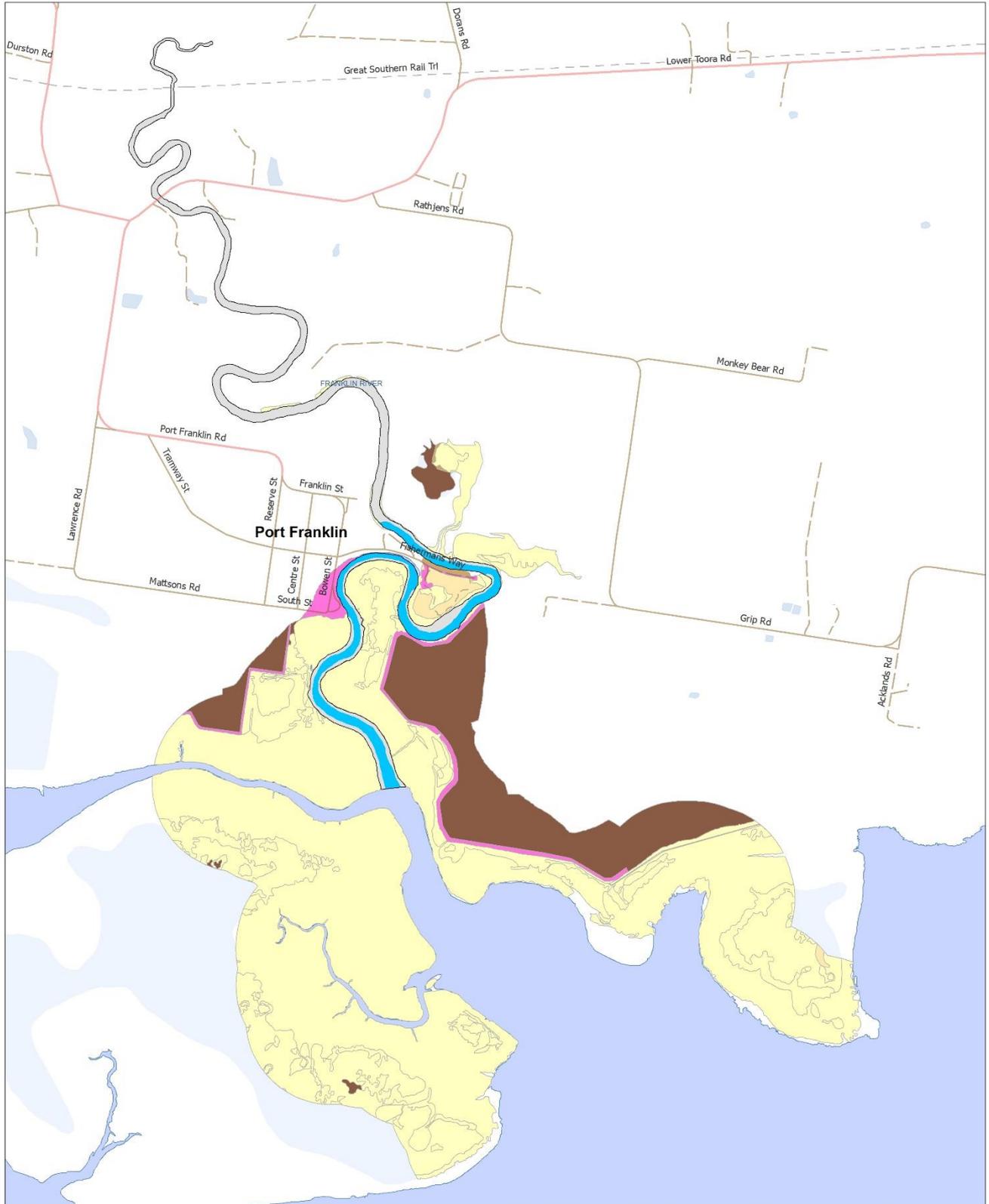
0 40 80 160 240  
Metres

**VICTORIA** State Government  
Environment, Land, Water and Planning

Map produced by ARI January 2020  
Copyright © The State of Victoria,  
Department of Environment, Land, Water and Planning, 2020



### Franklin River



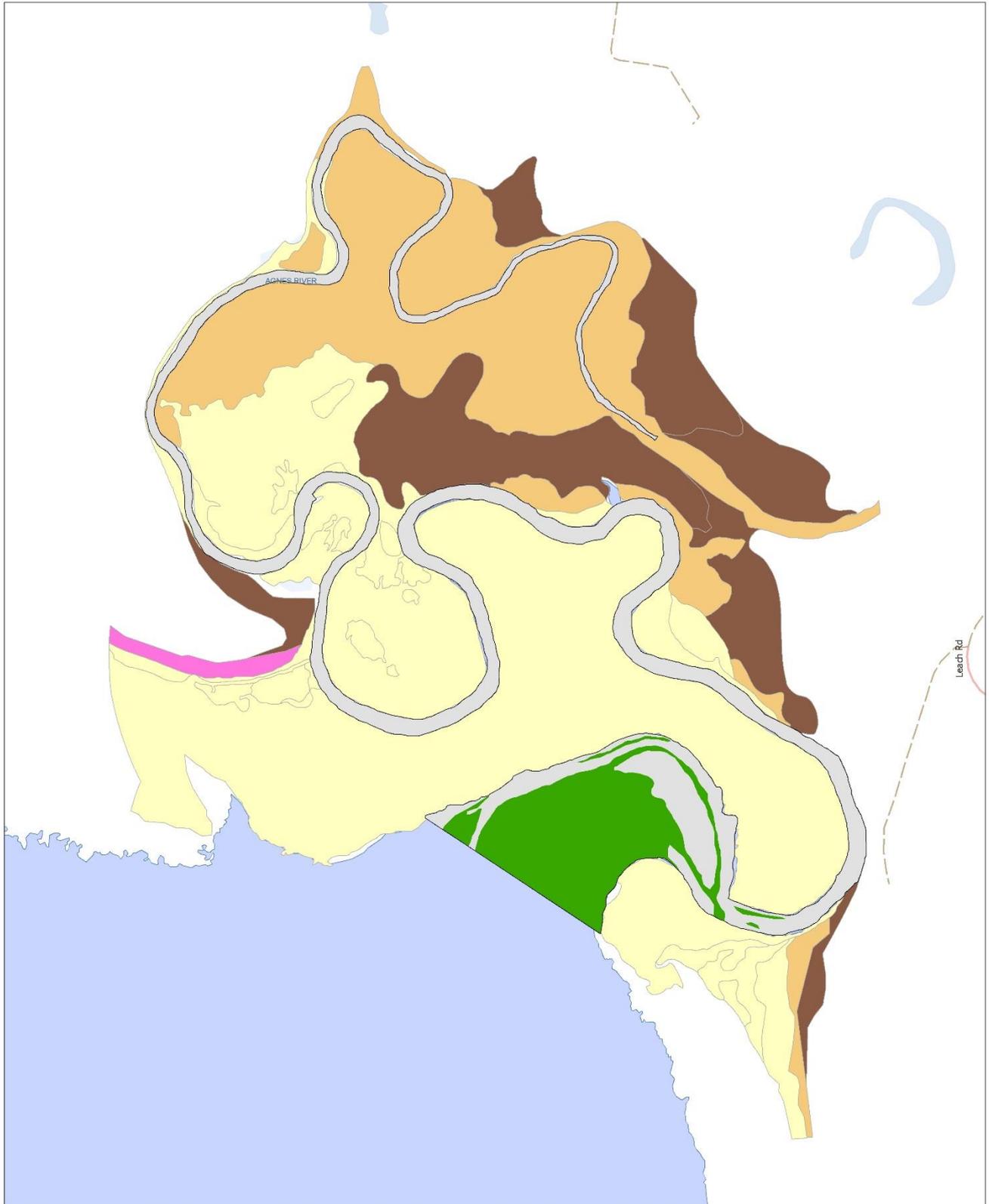
<b>Submerged Vegetation</b>	<b>Vegetation Nativeness</b>	<b>Waterbody</b>
Grey: Bare ground	Light yellow: 0 - 0.5 % exotic	Blue: Permanent Waterbody
Blue: Channel >2m	Yellow: 0.5 - 1	Light blue: Subject to Inundation
Green: Seagrass	Orange: 1 - 5	Blue hatched: Wetland Area
Light green: Seagrass/Macroalage	Light orange: 5 - 25	Blue dashed: Coastline
Purple: Macroalgae	Dark orange: 25 - 100 % exotic	Red dashed: State Border
Red: Macrophytes	Pink: Built	
Black: estuary boundary or unmapped region		

0 115 230 460 690  
Metres

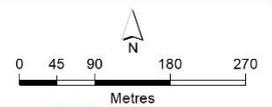
**VICTORIA** State Government  
Environment, Land, Water and Planning

Map produced by ARI January 2020  
Copyright © The State of Victoria,  
Department of Environment, Land, Water and Planning, 2020

### Agnes River

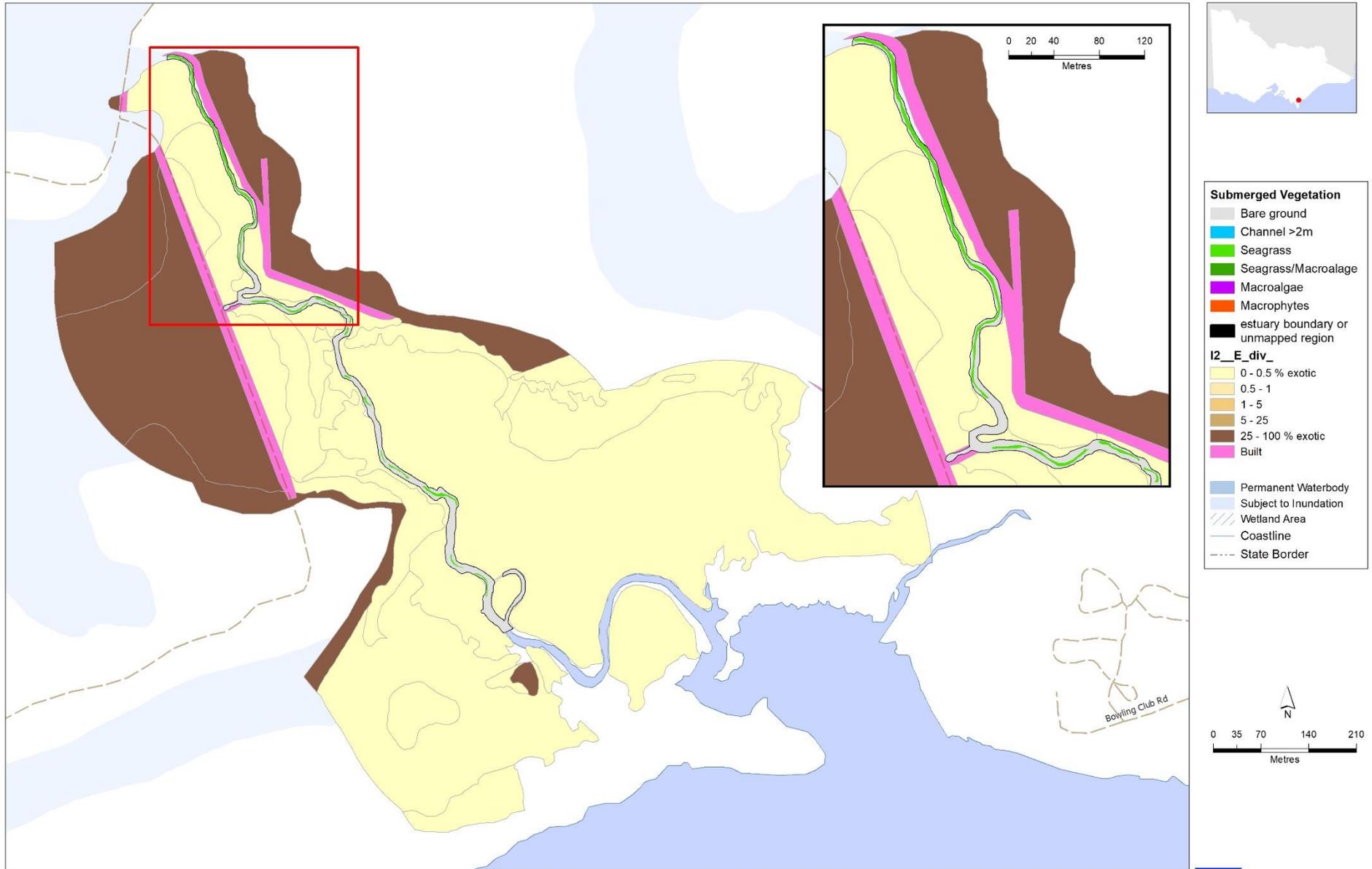


Submerged Vegetation	Vegetation Nativeness	Other Features
Bare ground	0 - 0.5 % exotic	Permanent Waterbody
Channel >2m	0.5 - 1	Subject to Inundation
Seagrass	1 - 5	Wetland Area
Seagrass/Macroalage	5 - 25	Coastline
Macroalgae	25 - 100 % exotic	State Border
Macrophytes	Built	
estuary boundary or unmapped region		

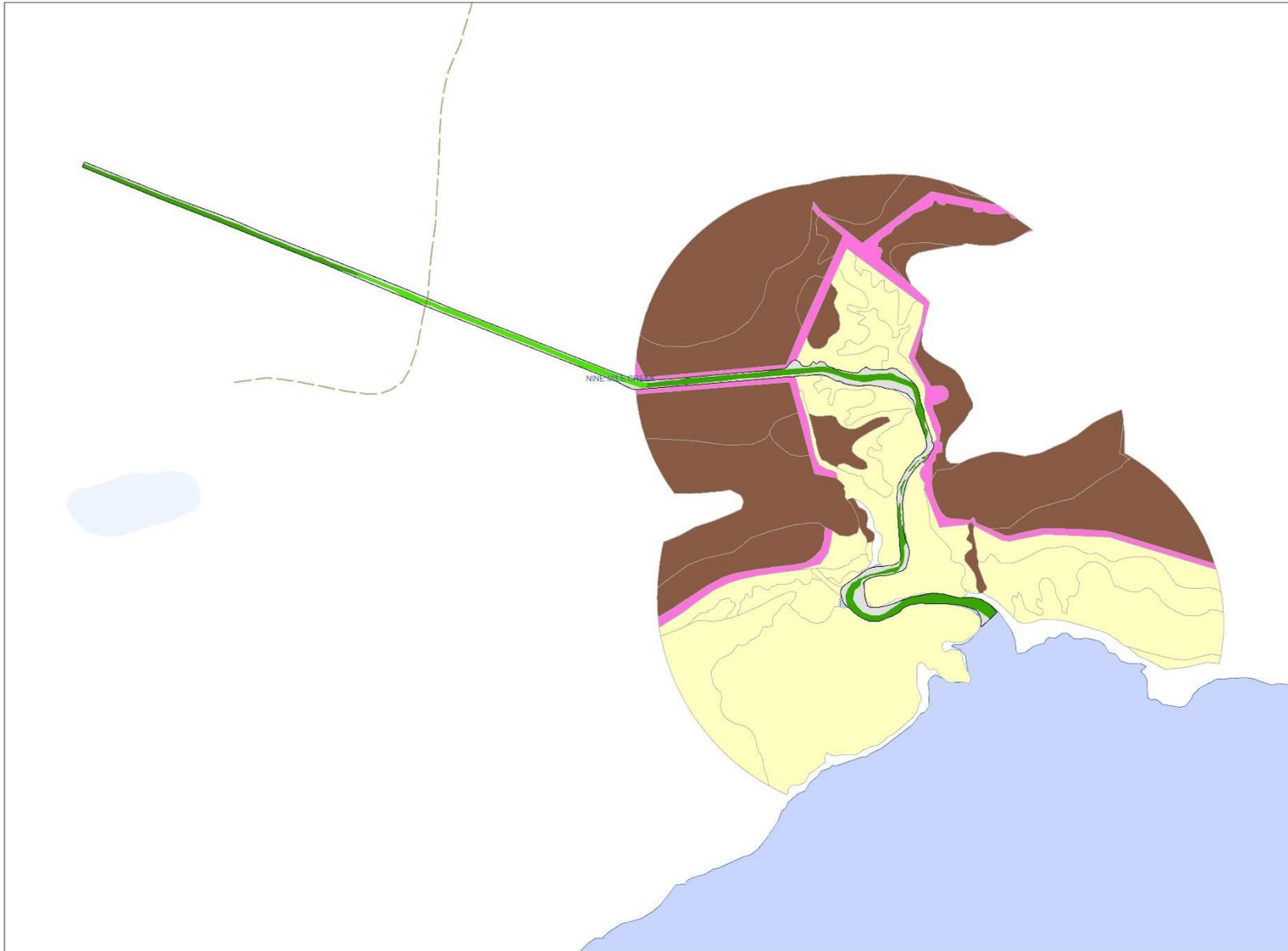



**VICTORIA** State Government  
 Environment, Land, Water and Planning  
 Map produced by ARI January 2020  
 Copyright © The State of Victoria,  
 Department of Environment, Land, Water and Planning, 2020

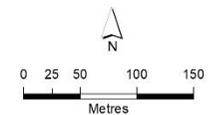
### Shady Creek

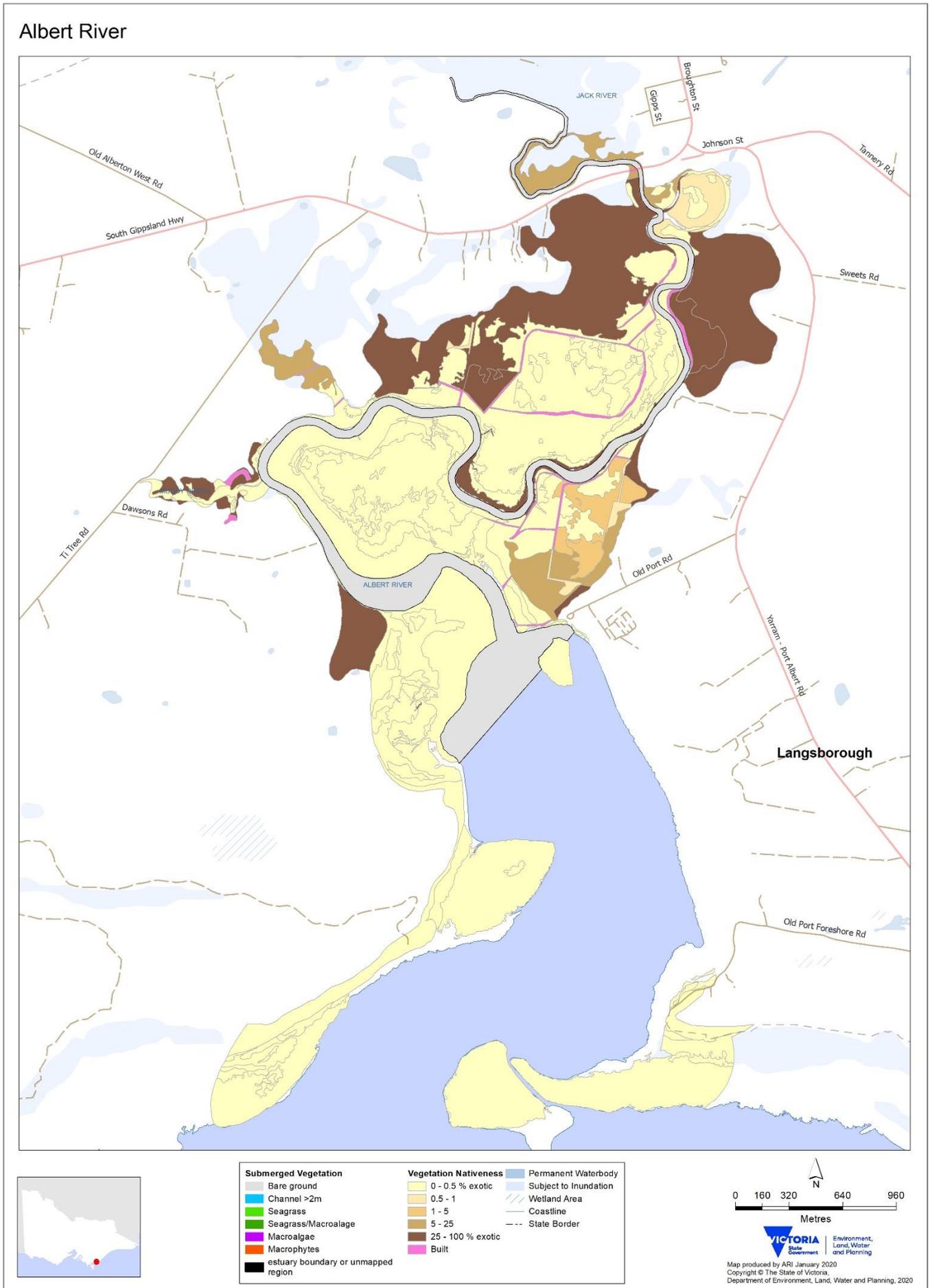


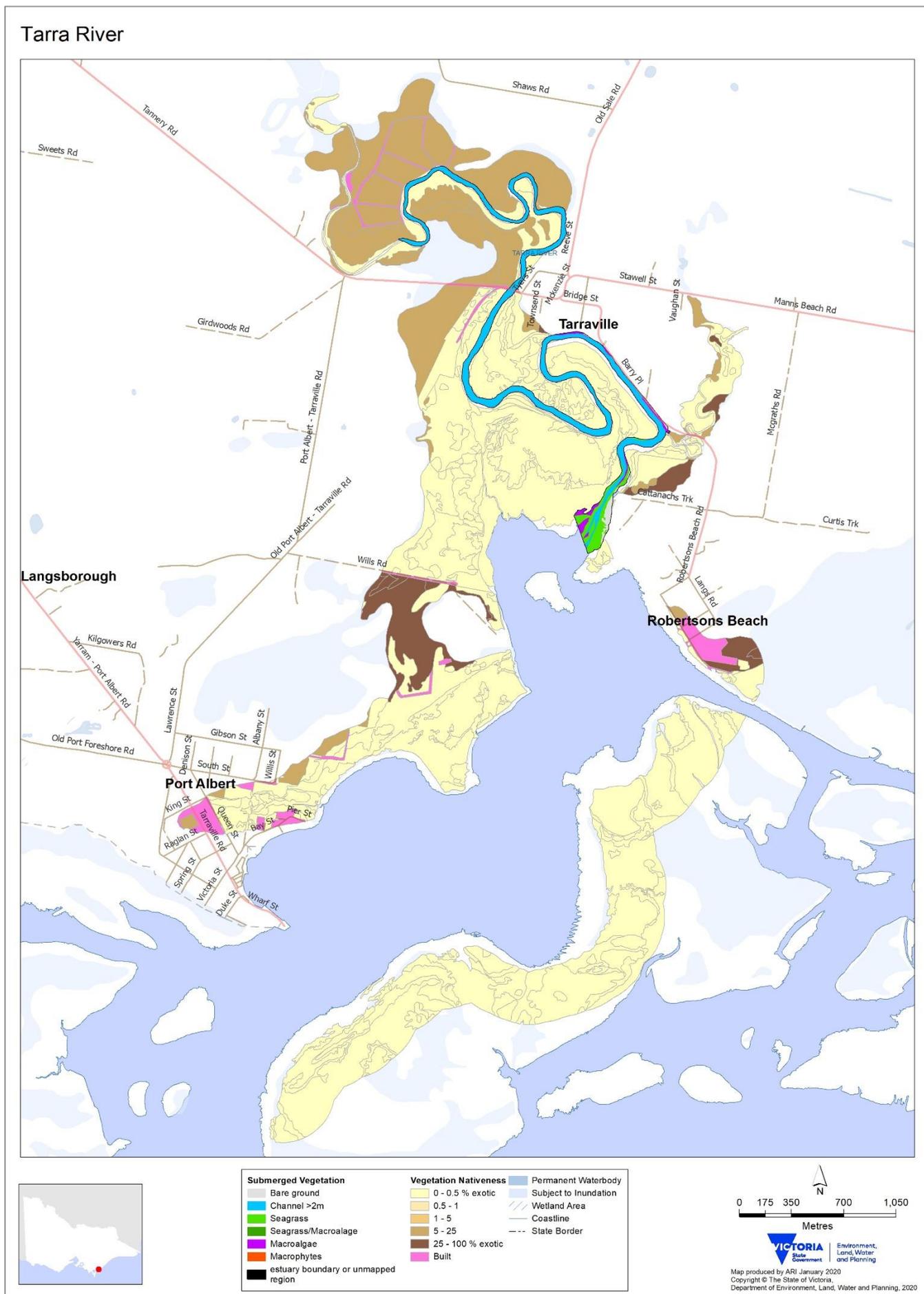
### Nine Mile Creek



- Submerged Vegetation**
- Bare ground
  - Channel >2m
  - Seagrass
  - Seagrass/Macroalage
  - Macroalgae
  - Macrophytes
  - estuary boundary or unmapped region
- Vegetation Nativeness**
- 0 - 0.5 % exotic
  - 0.5 - 1
  - 1 - 5
  - 5 - 25
  - 25 - 100 % exotic
  - Built
- Other Features**
- Permanent Waterbody
  - Subject to Inundation
  - Wetland Area
  - Coastline
  - State Border







### Neils Creek



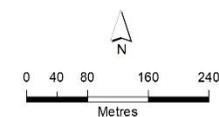
**Submerged Vegetation**

- Bare ground
- Channel >2m
- Seagrass
- Seagrass/Macroalage
- Macroalgae
- Macrophytes
- estuary boundary or unmapped region

**Vegetation Nativeness**

- 0 - 0.5 % exotic
- 0.5 - 1
- 1 - 5
- 5 - 25
- 25 - 100 % exotic
- Built

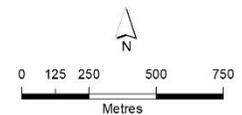
■ Permanent Waterbody  
 ■ Subject to Inundation  
 ▨ Wetland Area  
 — Coastline  
 - - - State Border



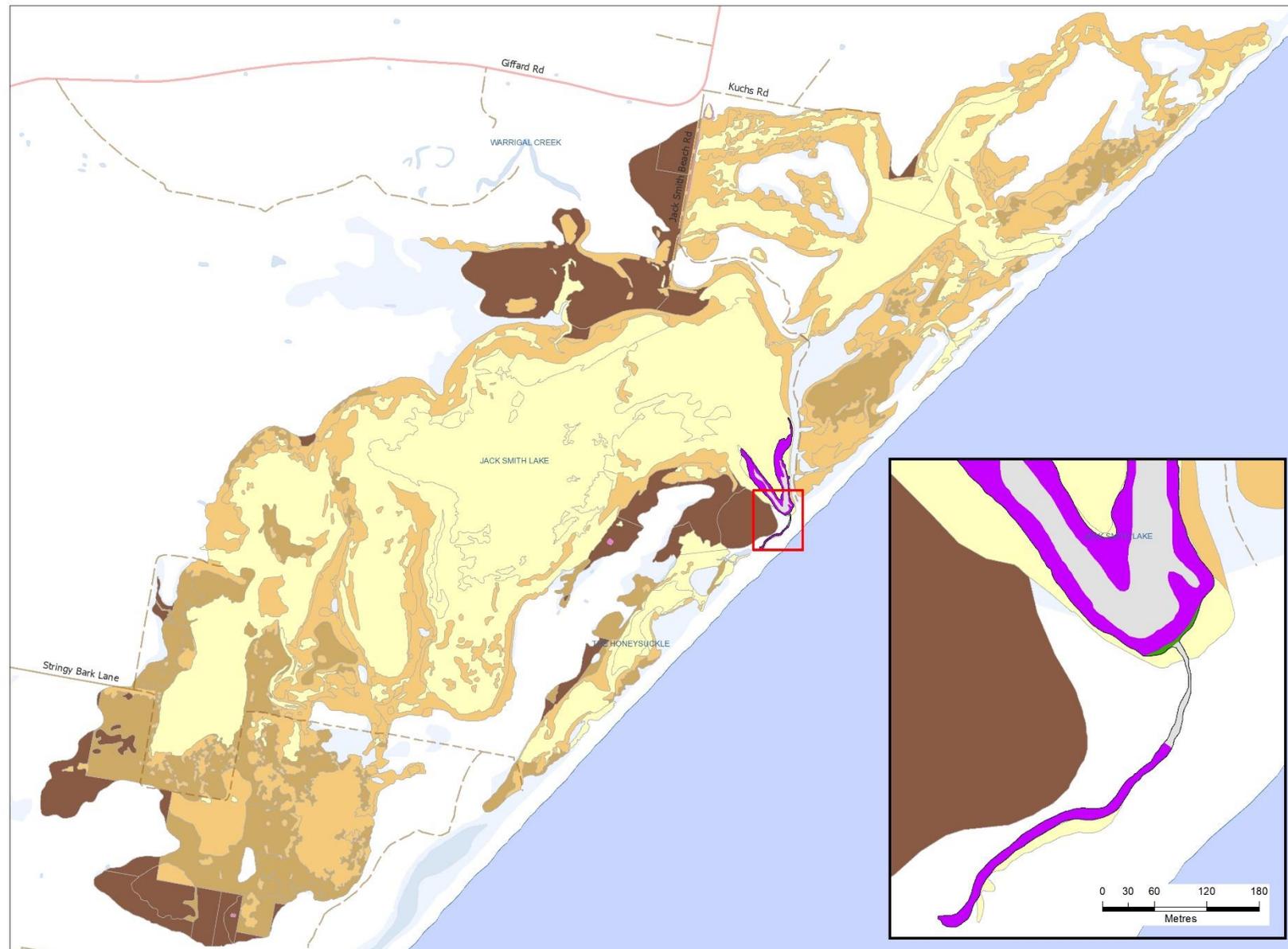
### Bruthen Creek



- Submerged Vegetation**
- Bare ground
  - Channel >2m
  - Seagrass
  - Seagrass/Macroalgae
  - Macroalgae
  - Macrophytes
  - estuary boundary or unmapped region
- Vegetation Nativeness**
- 0 - 0.5 % exotic
  - 0.5 - 1
  - 1 - 5
  - 5 - 25
  - 25 - 100 % exotic
  - Built
- Permanent Waterbody  
 ■ Subject to Inundation  
 ▨ Wetland Area  
 — Coastline  
 - - - State Border



### Jack Smith Lake



**Submerged Vegetation**

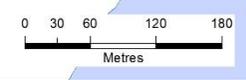
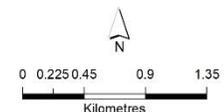
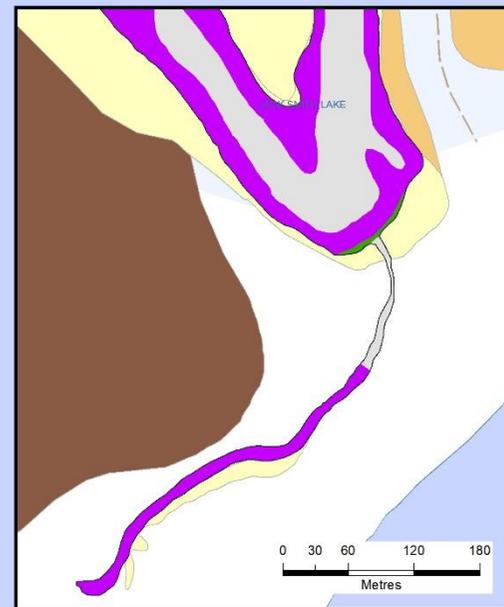
- Bare ground
- Channel >2m
- Seagrass
- Seagrass/Macroalage
- Macroalgae
- Macrophytes
- estuary boundary or unmapped region

**Vegetation Nativeness**

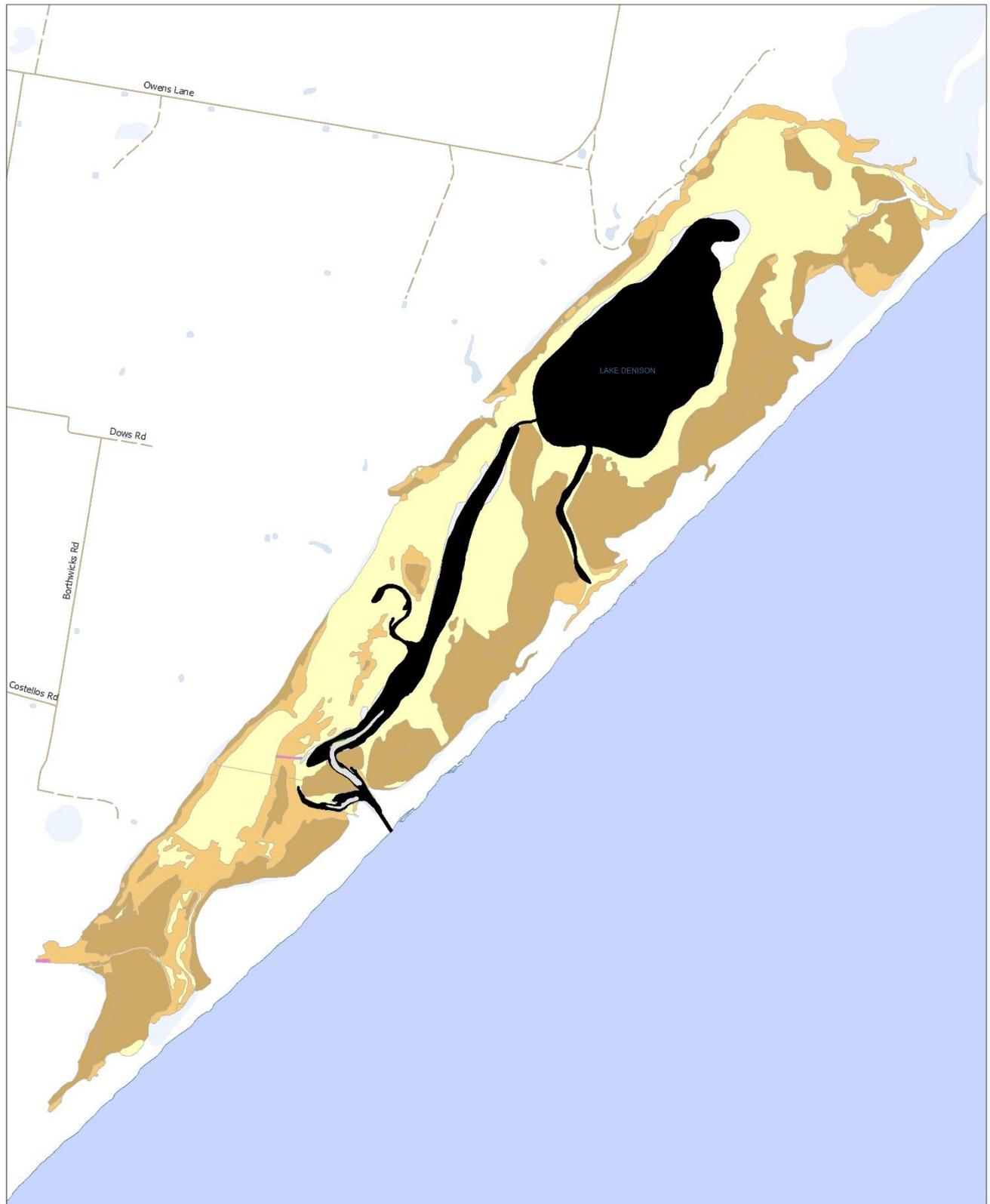
- 0 - 0.5 % exotic
- 0.5 - 1
- 1 - 5
- 5 - 25
- 25 - 100 % exotic
- Built

**Other Features**

- Permanent Waterbody
- Subject to Inundation
- Wetland Area
- Coastline
- State Border



### Lake Denison



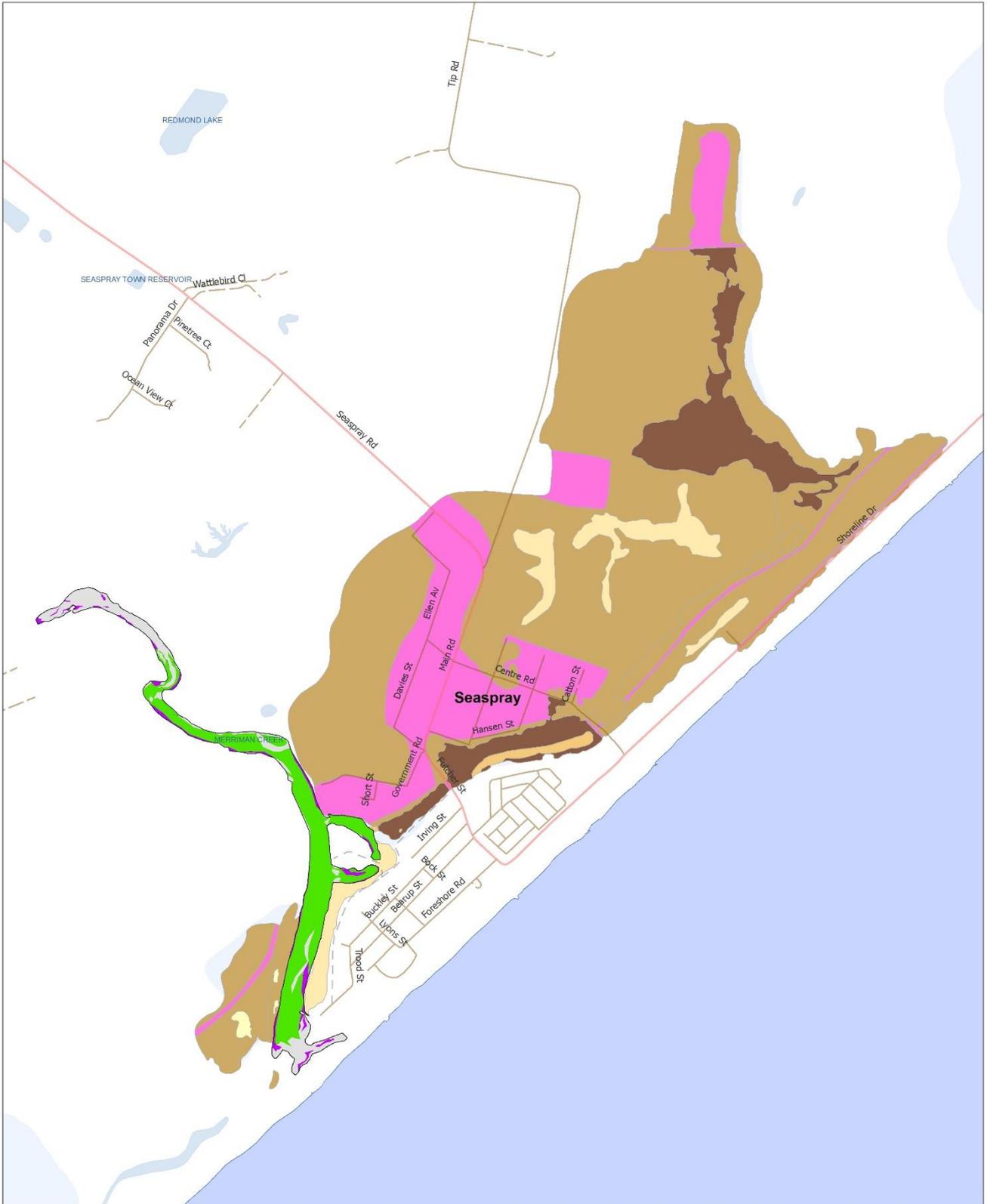
Submerged Vegetation	Vegetation Nativeness	Waterbody/Inundation
Bare ground	0 - 0.5 % exotic	Permanent Waterbody
Channel >2m	0.5 - 1	Subject to Inundation
Seagrass	1 - 5	Wetland Area
Seagrass/Macroalage	5 - 25	Coastline
Macroalgae	25 - 100 % exotic	State Border
Macrophytes	Built	
estuary boundary or unmapped region		

0 170 340 680 1,020  
Metres

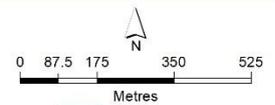
**VICTORIA** State Government  
Environment, Land, Water and Planning

Map produced by ARI January 2020  
Copyright © The State of Victoria,  
Department of Environment, Land, Water and Planning, 2020

### Merriman Creek

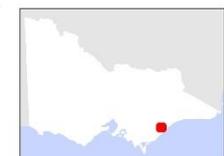
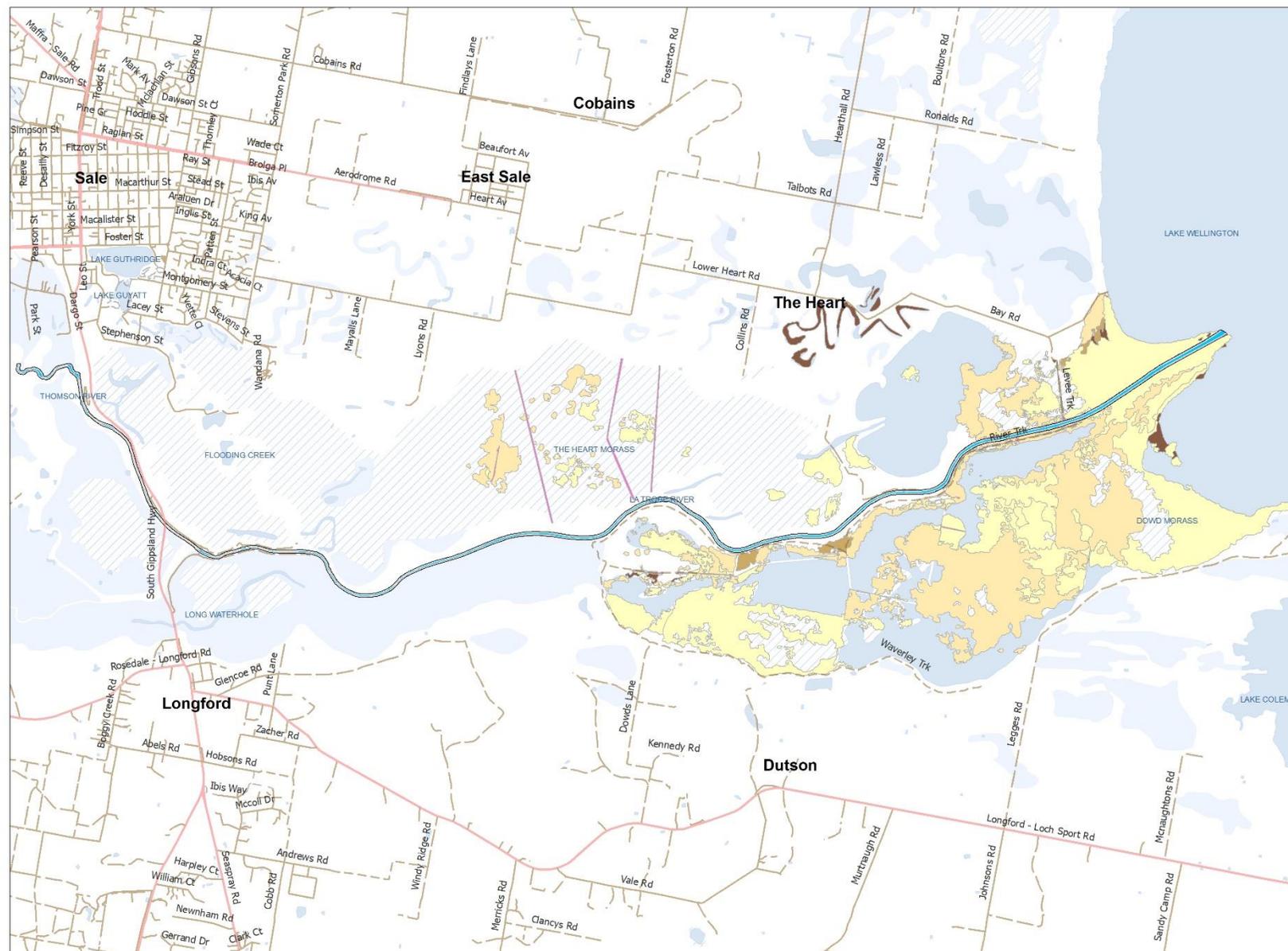


Submerged Vegetation	Vegetation Nativeness	Waterbody/Coastline
Bare ground	0 - 0.5 % exotic	Permanent Waterbody
Channel >2m	0.5 - 1	Subject to Inundation
Seagrass	1 - 5	Wetland Area
Seagrass/Macroalage	5 - 25	Coastline
Macroalgae	25 - 100 % exotic	State Border
Macrophytes	Built	
estuary boundary or unmapped region		




**VICTORIA**  
 State Government  
 Environment, Land, Water and Planning  
 Map produced by ARI January 2020  
 Copyright © The State of Victoria,  
 Department of Environment, Land, Water and Planning, 2020

### LaTrobe River



**Submerged Vegetation**

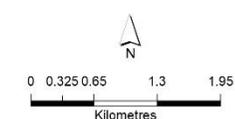
- Bare ground
- Channel >2m
- Seagrass
- Seagrass/Macroalage
- Macroalgae
- Macrophytes
- estuary boundary or unmapped region

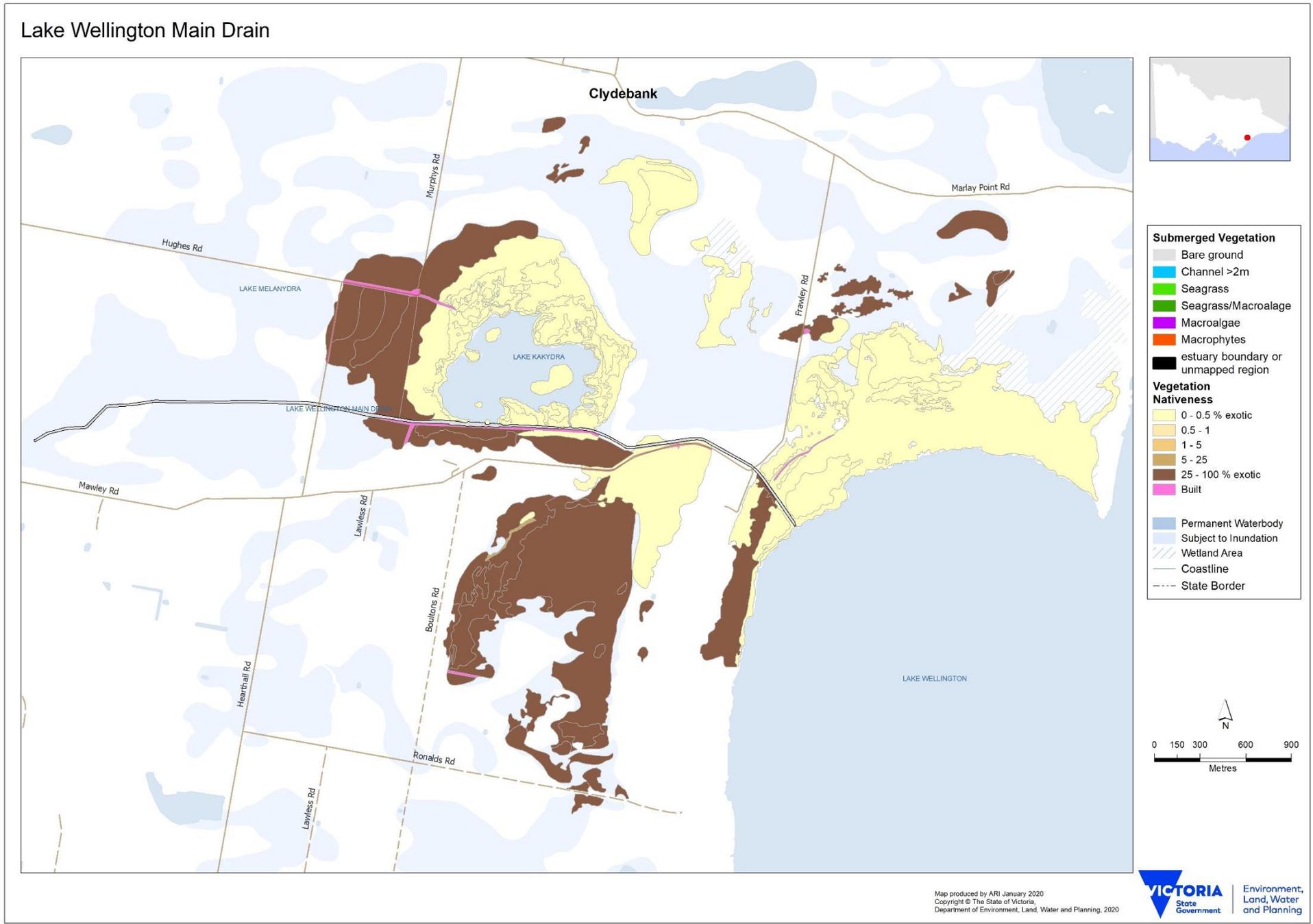
**Vegetation Nativeness**

- 0 - 0.5 % exotic
- 0.5 - 1
- 1 - 5
- 5 - 25
- 25 - 100 % exotic
- Built

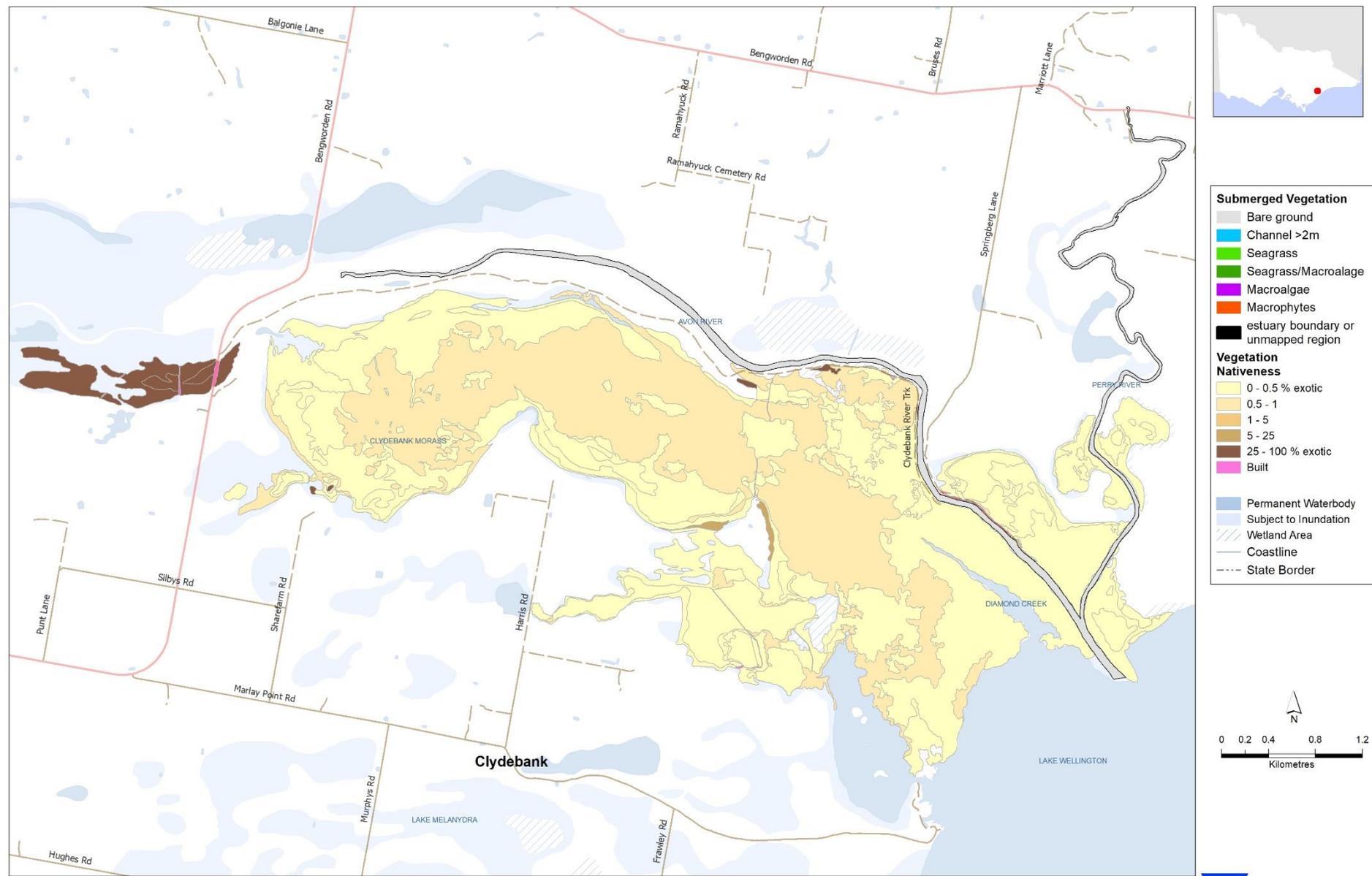
**Other Features**

- Permanent Waterbody
- Subject to Inundation
- Wetland Area
- Coastline
- State Border





### Avon River



**Submerged Vegetation**

- Bare ground
- Channel >2m
- Seagrass
- Seagrass/Macroalgae
- Macroalgae
- Macrophytes
- estuary boundary or unmapped region

**Vegetation Nativeness**

- 0 - 0.5 % exotic
- 0.5 - 1
- 1 - 5
- 5 - 25
- 25 - 100 % exotic
- Built

**Other Symbols**

- Permanent Waterbody
- Subject to Inundation
- Wetland Area
- Coastline
- State Border

