

# **East Port Phillip Bay Groundwater Catchment Statement**

**January 2017**

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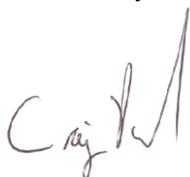
## Purpose of this document

Victoria has introduced Groundwater Catchments to capture the full extent of connected groundwater resources.

The catchment statement is the first step toward ensuring users and the community have a complete picture of the current management of groundwater in the East Port Phillip Bay Groundwater Catchment. The objective is, over time, to simplify management of groundwater throughout the catchment and enable users to get access to water for future development. The East Port Phillip Bay Groundwater Catchment boundary is available at the state government's Central Plan Office (document reference LEGL./12-061).

This document brings together all the plans affecting the licensed use of groundwater in the East Port Phillip Bay Groundwater Catchment. Water Supply Protection Areas and Groundwater Management Areas exist within the catchment. Statutory management plans apply in some water supply protection areas and local management plans apply in all other areas.

Management plans included in this statement will be reviewed at least every five years, but reviews may be undertaken earlier if required. Reviews will improve existing management and potentially reduce the number of management areas within the catchment. This will make management less complex, while ensuring equitable sharing and long term sustainability of the resource.



CRAIG PARKER

General Manager Groundwater & Rivers

19 January 2017

## Definitions

### Carryover

Allows entitlement holders to retain ownership of unused water allocated or purchased from the current season into the following season in accordance with rules specified in a Ministerial Order made under section 62A of the *Water Act 1989*.

### Entitlements

Water entitlements referred to in this report refer to entitlements issued under s51 of the *Water Act, 1989*.

### Groundwater basins

One or more groundwater catchments within a geological basin. The basin may extend off-shore or across State boundaries. In some cases a basin may be broken into one or more sub-basins to reflect administrative management boundaries.

### Groundwater catchments

An area containing a connected groundwater resource(s), bringing together the input (recharge) areas, use (demand) areas and discharge areas.

### Groundwater Management Area (GMA)

A Groundwater Management Area (GMA) is a discrete area where groundwater of a suitable quality for irrigation, commercial or domestic and stock use is available or expected to be available.

### Groundwater Management Plan (GMP)

The object of a management plan is to make sure that the water resources of the relevant water supply protection area are managed in an equitable manner and to ensure the long-term sustainability of those resources (section 32(A)(1), *Water Act 1989*).

### Groundwater Management Unit (GMU)

Either a groundwater management area or a water supply protection area.

### Local Management Plans

Local management plans describe the resource, management objectives and specific rules such as restrictions, carryover (if applicable) and trade within a specified area. Local management plans cannot amend licence conditions.

### Permissible Consumptive Volume (PCV)

The total volume of water that can be taken in an area or water system and a period of time. (section 22(A)(1), *Water Act 1989*)

### Victorian Water Accounts

The Victorian Water Accounts document main water resource management issues and provides an overview of water availability and use across Victoria.

### Water Supply Protection Area (WSPA)

A Water Supply Protection Area (WSPA) is an area declared under section 27 of the *Water Act 1989* to protect groundwater or surface water resources through the development of a management plan which aims for equitable management and long-term sustainability.

## East Port Phillip Bay Groundwater Catchment

The East Port Phillip Bay Groundwater Catchment is located in the Port Phillip Bay Basin in south-western Victoria (Figure 1). Neighbouring groundwater catchments are the West Port Phillip Bay to the west, Goulburn-Broken to the north and Westernport and Moe to the east.

The Port Phillip Basin borders the Goulburn Murray Basin to the north, the Otway-Torquay Basin to the west and the Gippsland and Westernport Basins to the east. The basin extends offshore beneath Bass Strait.

The East Port Phillip Bay Groundwater Catchment map is lodged with the Central Plan Office, reference number: LEGL./12-061 EAST PORT PHILLIP BAY GROUNDWATER CATCHMENT. Local Management Plans for sub-areas of the catchment form the basis for groundwater management.

The local management plans do not replace permissible consumptive volumes, approved groundwater management plans or place any additional requirements on the use of groundwater for stock and domestic purposes.

The local management plan details can be found in the appendices.

<b>Local Management Plan Area</b>	<b>Plan Details</b>
• Frankston Groundwater Management Area	Appendix 1
• Moorabbin Groundwater Management Area	Appendix 2
• Nepean Groundwater Management Area	Appendix 3
• Wandin Yallock Groundwater Management Area	Appendix 4
• All remaining areas	Appendix 5

Local management plans may (from Policy 3.3, *Western Region Sustainable Water Strategy*, p61):

- document management objectives for the system;
- explain to licence holders (and the broader community) the specific management objectives and arrangements for their water resource and the rules that apply to them as users of that resource;
- be based on existing operational rules, recognising the rights of existing licence holders;
- be consistent with the *Policies for Managing Section 51 Take and Use Licences*;

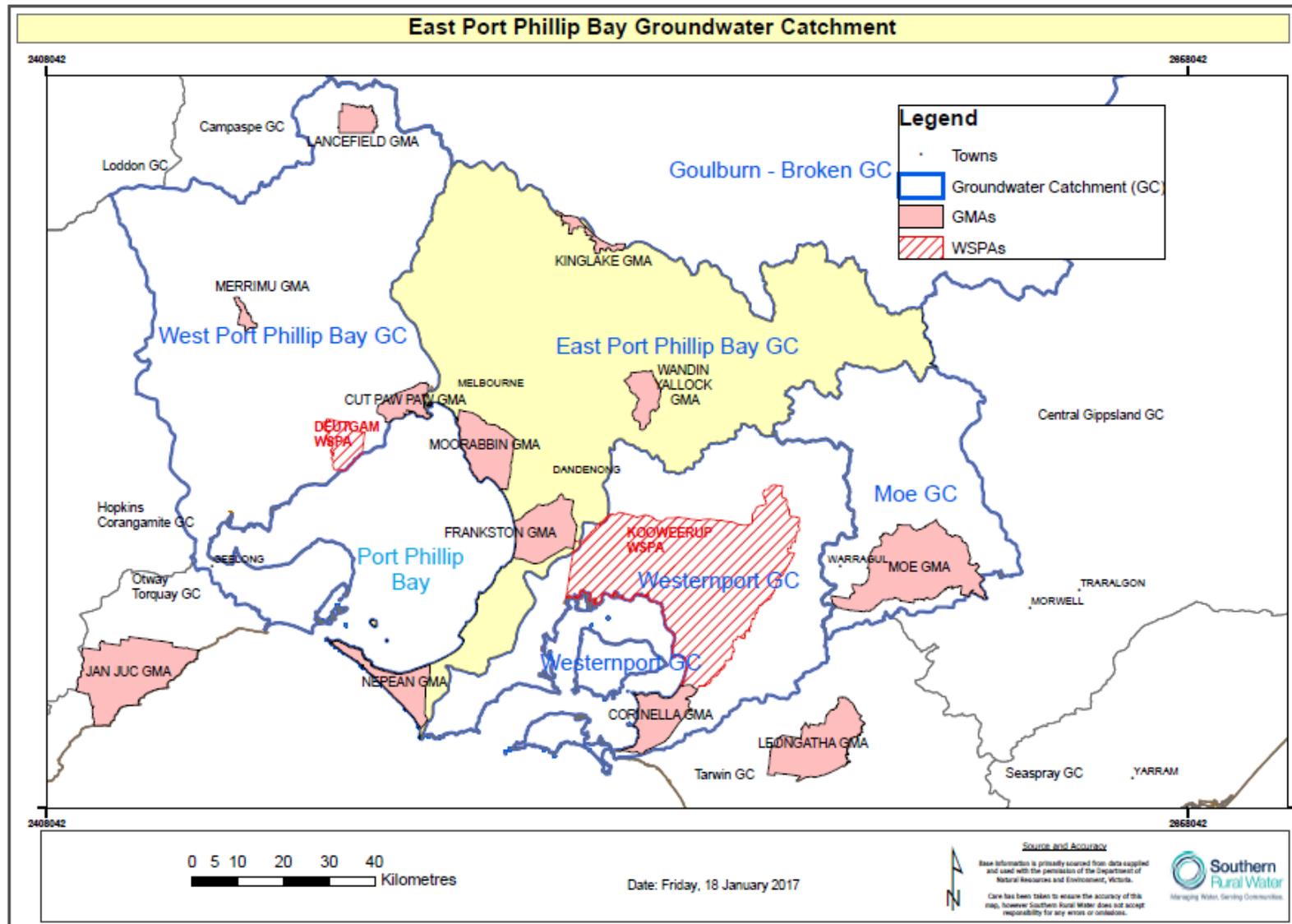


Figure 1 - Location of the East Port Phillip Bay groundwater catchment and GMA/WSPAs in neighbouring catchments.

- document any limits, including water use caps, permissible consumptive volumes (PCVs) or extraction limits that apply to the Groundwater Management Units (GMUs);
- include trading zones and rules;
- clarify water sharing arrangements for all users and the environment, including environmental flow requirements;
- document monitoring and reporting requirements; and
- be periodically reviewed to incorporate new knowledge.

## Aquifers in the East Port Phillip Bay Groundwater Catchment

Groundwater is found in aquifers. An aquifer is a layer of fractured rock, gravel, sand or limestone below the ground that is porous enough to hold groundwater and allow it to flow. An aquitard is a layer of rock or clay that may hold some groundwater but is not porous enough to allow it to flow significantly.

The Victorian Aquifer Framework (DSE, 2012) identifies and clearly describes the aquifers and aquitards across the East Port Phillip Bay groundwater catchment. The catchment can be broadly subdivided into three layers; the upper, middle and lower aquifers. The aquifer layers are generally separated from one another by aquitards. A cross section showing the relative position of the aquifer layers is provided in Figure 2.

The local management plans describe the rules for management of all or part of an aquifer (upper, middle or lower). The aquifers comprise layers that have both hydrogeological names (as described in the Victorian Aquifer Framework, DSE, 2012) and primary geological names. The main aquifer managed by each local management plan area and the associated hydrogeological and geological names are summarised in Table 1.

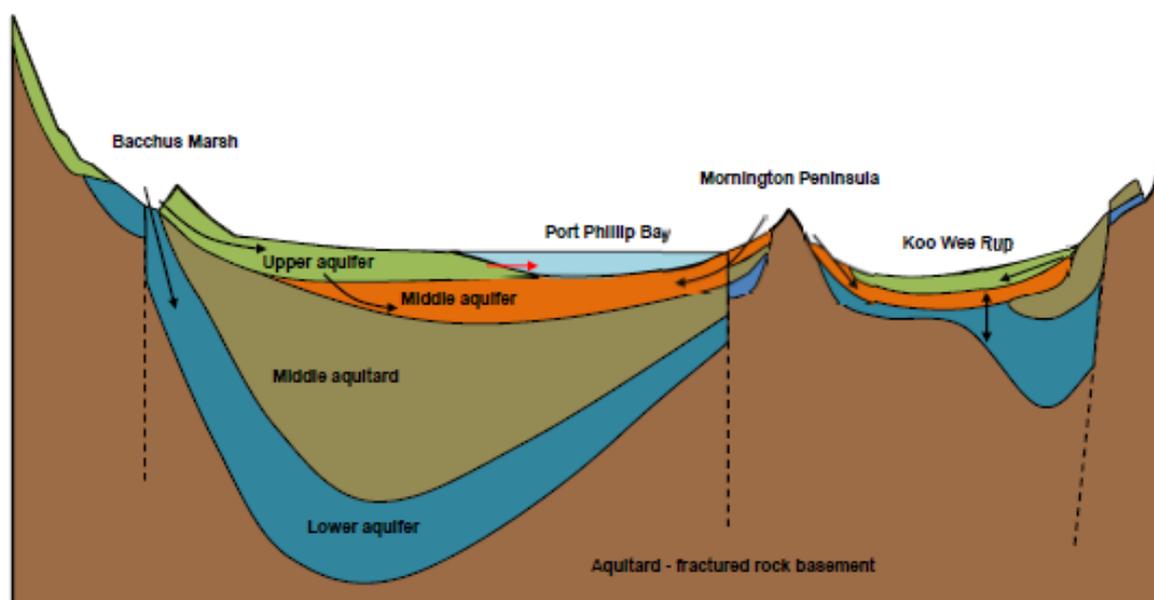


Figure 2 –Cross section through the East Port Phillip Bay Groundwater Catchment, taken from the Port Phillip Bay and Westernport Groundwater Atlas (*in draft*)

**Table 1 – Principal aquifer resource managed by the Local Management Plan Area<sup>1</sup>**

Principal Local Management Plan for the layer (or part layer) and Groundwater catchment <sup>2</sup>	Aquifer layer	Hydrogeological layers (Victorian Aquifer Framework, DSE, 2012)	Geological Layers
Nepean	Upper	QA Quaternary	Various aeolian deposits, various fluvial, lacustrine, alluvial and colluvial sediments. Quaternary sandy limestone, calcarenite and shell deposits.
		UTB Upper Tertiary/ Quaternary Basalt Aquifer	Quaternary stoney rises, tuff, undiff. Quaternary basalt (inc Newer Volcanics)
		UTAM Upper Tertiary Aquifer (Marine)	Moorabool Viaduct Formation
Moorabbin, Frankston		UTAF Upper Tertiary Aquifer (Fluvial)	Brighton Group, Baxter Formation
	Middle	UMTA Upper Mid Tertiary Aquifer	Batesford Limestone, Sherwood Formation, Yallock Formation
Moorabbin		UMTD Upper Mid Tertiary Aquitard	Torquay Group, Fyansford Formation, Newport Silt, Maddingley Coal
		LMTA Lower Mid-Tertiary Aquifer	Maude Formation
		LMTD Lower Mid Tertiary Aquitard	Demons Bluff Group, Anglesea Formation
	Lower	LTB Lower Tertiary Basalts	Phase 2 Basalts, Mornington Volcanics
		LTA Lower Tertiary Aquifer	Childers Fm, Eastern View Formation, Werribee Formation, Yaloak Formation
Wandin Yallock		LTB Lower Tertiary Basalts	Mornington Volcanics, Older Volcanic Group (Phase 1)
Kinglake	Basement	BSE Mesozoic and Palaeozoic Bedrock	Permian Glacial Sediments, all Palaeozoic basement rock

Descriptions from the Victorian Aquifer Framework (DSE 2012).

Note 1: The areas are often defined by a depth from surface that may incorporate parts of other aquifers and aquitards. The principal aquifer is the primary target for management of groundwater extraction. Any rules, however, apply to the entire defined area (see Appendices).

Note 2: All other aquifer layers not covered by the Local Management Plans above are covered in the “All remaining areas” Local Management Plan (Appendix 5).

## Water management arrangements

### Overarching responsibilities

Groundwater management falls within both the jurisdiction of Southern Rural Water (SRW) and the Department of Environment, Land, Water and Planning (DELWP) in ensuring the delivery of government policy on water and the environment. They are jointly responsible for the implementation of the Central Region Sustainable Water Strategy. The groundwater catchment statements, of which the East Port Phillip Bay GCS is one, is part of the implementation of this strategy.

The licensing authority for groundwater within the East Port Phillip Bay Groundwater Catchment is SRW. SRW is responsible for issuing bore construction licences (section 67, *Water Act 1989*) and licensing groundwater extractions under “take and use” licences, section 51 of the Act. See the SRW website ([www.srw.gov.au](http://www.srw.gov.au)) or the Victorian Water Register ([waterregister.vic.gov.au](http://waterregister.vic.gov.au)) for more information about these.

DELWP is the department responsible for administering the *Water Act 1989*, and oversees the management of water resources in Victoria. Sustainable Water Strategies (SWS) and groundwater (or local) management plans are one way that DELWP and SRW ensure the long term sustainability of those resources, and that they are managed equitably.

Monitoring groundwater resources (quality and levels) forms a substantive component of this by providing the information to assess the health and availability of the resource. SRW and DELWP undertake extensive monitoring of groundwater resources in the East Port Phillip Bay catchment.

### Water accounting

Information on the management and use of groundwater within this groundwater catchment is included in the Victorian Water Accounts which are published annually by DELWP. Annual reports on WSPAs with groundwater management plans are produced each year by SRW tabulating usage, allocations and entitlements for those areas. Groundwater entitlements are listed on the Victorian Water Register and are publicly available on the web ([waterregister.vic.gov.au](http://waterregister.vic.gov.au)).

### Review

DELWP may review and evaluate progress on management of groundwater at any time, in collaboration with SRW.

SRW may independently review local management plans. Administrative changes or clarifications may be made without consultation. SRW will consult licence holders and stakeholders on any change that affects the rights of existing users and/or other stakeholders.

## Access to information

More information on groundwater can be obtained from the websites listed below. This includes information on groundwater levels, the Port Phillip and Westernport Groundwater Atlas (when completed) and groundwater resource reports.

Southern Rural Water – [www.srw.com.au](http://www.srw.com.au)

Department of Environment and Primary Industries – [www.depi.vic.gov.au](http://www.depi.vic.gov.au)

Victorian Water Register – [waterregister.vic.gov.au](http://waterregister.vic.gov.au)

SRW Victoria Groundwater Atlases, available online at:  
[http://www.srw.com.au/Page/page.asp?Page\\_Id=687&h=0](http://www.srw.com.au/Page/page.asp?Page_Id=687&h=0)

Groundwater Resource Reports (DSE, 2012):  
<http://www.water.vic.gov.au/monitoring/groundwater/groundwater-resource-reports>

Melbourne Groundwater Directory (DSE, 2009):  
<http://www.water.vic.gov.au/monitoring/groundwater/general/melbourne-groundwater-directory>

Victorian Aquifer Framework (DSE, 2012):  
<http://www.water.vic.gov.au/environment/groundwater/national-groundwater-action-plan-victorian-projects>

## Appendix 1 Frankston Local Management Plan

### Objective of the Local Management Plan

The objective of the local management plan is to make sure that the groundwater resources in the Frankston Groundwater Management Area (GMA) are managed in an equitable and sustainable manner.

### Area description

Frankston GMA is shown below. The plan is lodged with the Central Plan Office, reference number LEGL./04-133.

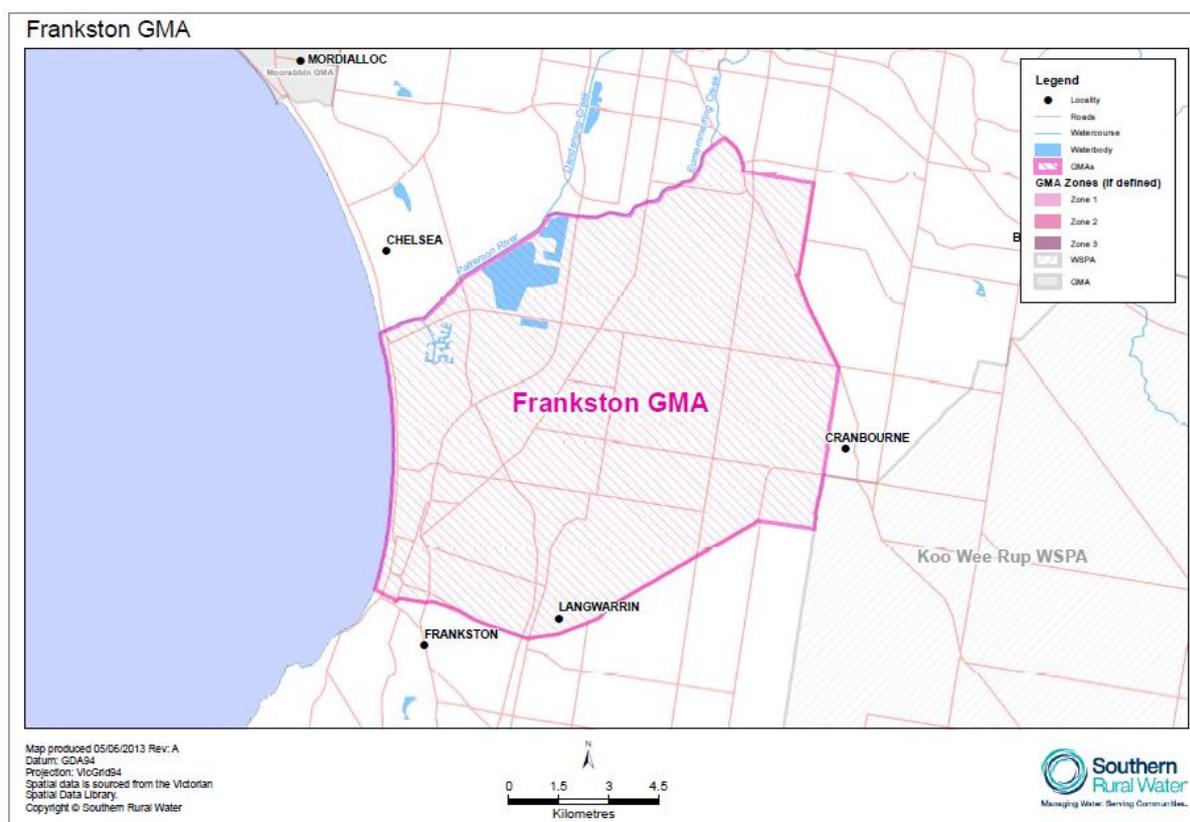


Figure A1-1: Map of Frankston Groundwater Management Area

### Permissible Consumptive Volume

A Permissible Consumptive Volume (PCV) currently applies to the Frankston GMA. The PCV is a cap on the amount of groundwater allocated in this management unit. The PCV for Frankston GMA is 3,200 ML/yr.

The PCV applies to the area covered in Figure A1-1, for all formations below the surface.

### Water entitlements

The extraction of groundwater for purposes other than domestic and stock use is authorised under a groundwater licence. There are 30 groundwater licences in the Frankston GMA that

authorise a total extraction of 1671.4 ML. People have rights to take groundwater for domestic and stock use without needing a groundwater licence.

Groundwater is used in the Frankston GMA for irrigation, industrial and commercial purposes. Metered groundwater use is less than the total groundwater entitlements and varies each year according to the seasonal conditions.

Licence holders must not take more than their annual licence volumes.

## Restrictions

The PCV determines the maximum volume of water that can be extracted from the Frankston GMA; however, the local management plan does not place specific restrictions on taking groundwater.

If necessary, SRW is able to temporarily qualify rights to groundwater under section 33AAA of the *Water Act 1989* if a water shortage occurs - for example, if regional drawdown is affecting access to groundwater by users.

Groundwater licences also allow SRW to restrict extraction if required - for example, to minimise the effect of extraction from specific sites if there is a significant impact on nearby users or the aquifer. If restrictions are necessary, SRW will notify licence holders in advance.

## Trading

In considering an application to transfer a licence (temporarily or permanently), SRW has to do a thorough assessment of the application. An application to transfer a licence is not automatically approved. In deciding whether or not to approve an application SRW must have regard to matters listed in section 40 of the Act, including:

- Availability of water now and in the future;
- Adverse effects that an approval may have on existing users, on waterways and aquifers and on the environment; and
- Existing and projected water quality in the GMA.

When an application is made, SRW will assess whether groundwater extractions at the new site will cause adverse and material interference to any nearby groundwater user. If interference is likely, SRW may set transfer conditions to minimise interference, or it may refuse the application. Approval of an application to transfer may be subject to technical assessments to determine bore interference and impact on surface water bodies.

In the Frankston GMA:

- Permanent transfers are permitted
- Temporary transfers are permitted for a period of up to five years

## **New licences**

New licences can be issued up to the PCV and in accordance with policies for managing take and use licences.

## **Metering**

Southern Rural Water meters new and existing licensed water users. This allows SRW to keep track of how much water is being used, and enables licence holders to keep within their allocated volume. This means:

1. All new licences for irrigation or commercial purposes require a meter
2. Existing licences of 10ML or greater require a meter

The meters are supplied by SRW, and the licence holder will be responsible for paying the full cost of the meter and installation. The meter remains the property of SRW. SRW is responsible for maintenance and replacement.

Meters are read at least twice per year.

## **Consultation**

SRW will consult with licence holders and relevant stakeholders before making changes to the Local Management Plan, other than administrative changes or clarifications.

The Local Management Plan will be reviewed every 5 years, unless an update is required sooner.

## Appendix 2 Moorabbin Local Management Plan

### Objective of the Local Management Plan

The objective of the local management plan is to make sure that the groundwater resources in the Moorabbin Groundwater Management Area (GMA) are managed in an equitable and sustainable manner.

### Area description

Moorabbin GMA is shown below. The plan is lodged with the Central Plan Office, reference number LEGL./04-147.

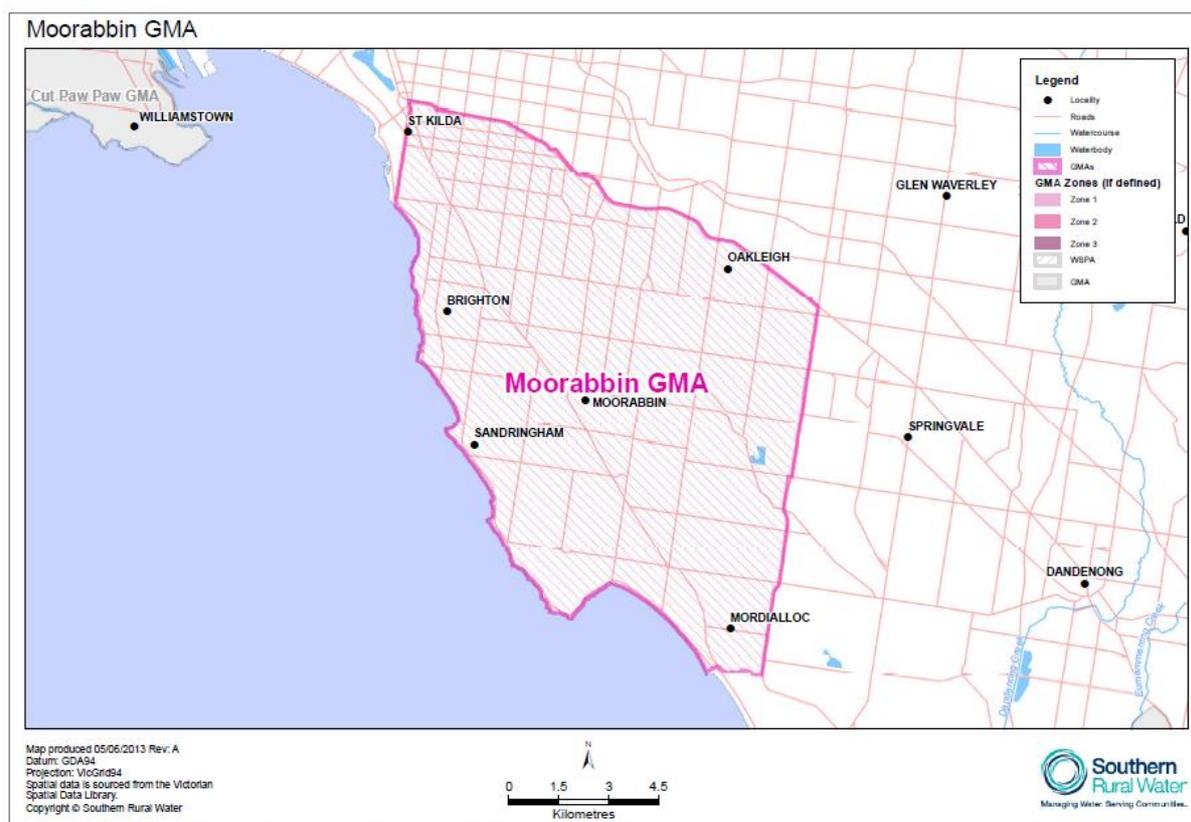


Figure A2-1: Map of Moorabbin Groundwater Management Area

### Permissible Consumptive Volume

A Permissible Consumptive Volume (PCV) currently applies to the Moorabbin GMA. The PCV is a cap on the amount of groundwater allocated in this management unit. The PCV for Moorabbin GMA is 2,700 ML/yr.

The PCV applies to the area covered in Figure A2-1, for all formations below the surface.

### Water entitlements

The extraction of groundwater for purposes other than domestic and stock use is authorised under a groundwater licence. There are 58 groundwater licences in the Moorabbin GMA

that authorise a total of 2,616.8 ML. People have rights to take groundwater for domestic and stock use without a groundwater licence.

Groundwater is licensed for irrigation purposes and industrial and commercial purposes. Metered groundwater use is less than the total groundwater entitlements and varies each year according to the seasonal conditions.

Licence holders must not exceed their annual licence volumes.

## Restrictions

The PCV determines the maximum volume of water that can be extracted from the Moorabbin GMA; however, the local management plan does not place specific restrictions on taking groundwater.

If necessary, SRW is able to temporarily qualify rights to groundwater under section 33AAA of the *Water Act 1989* if a water shortage occurs - for example, if regional drawdown is affecting access to groundwater by users.

Groundwater licences also allow SRW to restrict extraction if required - for example, to minimise the effect of extraction from specific sites if there is a significant impact on nearby users or the aquifer. If restrictions are necessary, SRW will notify licence holders in advance.

## Trading

In considering an application to transfer a licence (temporarily or permanently), SRW must undertake a thorough assessment of the application. An application to transfer a licence is not automatically approved. In deciding whether or not to approve an application, SRW must consider section 40 of the Act, including:

- Availability of water now and in the future;
- Adverse effects that an approval may have on existing users, on waterways and aquifers and on the environment; and
- Existing and projected water quality in the GMA.

When an application is made, SRW will assess whether groundwater extractions at the new site will cause adverse and material interference to any nearby groundwater user. If interference is likely, SRW may set transfer conditions to minimise interference, or it may refuse the application. Approval of an application to transfer may be subject to technical assessments to determine bore interference and impact on surface water bodies.

In the Moorabbin GMA:

- Permanent transfers are permitted
- Temporary transfers are permitted for a period of up to five years

## **New licences**

New licences can be issued up to the PCV and in accordance with policies for managing take and use licences.

## **Metering**

Southern Rural Water meters new and existing licensed water users. This allows SRW to keep track of how much water is being used and enables licence holders to keep within their allocated volume. This means:

1. All new licences for irrigation or commercial purposes require a meter
2. Existing licences of 10ML or greater require a meter

The meters are supplied by SRW, and the licence holder will be responsible for paying the full cost of the meter and initial installation. The meter remains the property of SRW. SRW is responsible for maintenance and replacement.

Meters are read at least twice per year.

## **Consultation**

SRW will consult with licence holders and relevant stakeholders before making changes to the Local Management Plan, other than administrative changes or clarifications.

The Local Management Plan will be reviewed every 5 years, unless an update is required sooner.

## Appendix 3 Nepean Local Management Plan

### Objective of the Local Management Plan

The objective of the local management plan is to make sure that the groundwater resources in the Nepean Groundwater Management Area (GMA) are managed in an equitable and sustainable manner.

### Area description

Nepean GMA is shown below. The plan is lodged with the Central Plan Office, reference number LEGL./04-220.



Figure A3-1: Map of Nepean Groundwater Management Area

### Permissible Consumptive Volume

A Permissible Consumptive Volume (PCV) currently applies to the Nepean GMA. The PCV is a cap on the amount of groundwater allocated in this management unit. The PCV for Nepean GMA is 6,110 ML/yr.

The PCV applies to the area covered in Figure A3-1, for the Upper aquifer being all aquifers from:

- The natural surface to 200 meters below the natural surface; or

- b) The natural surface to 50 metres below the base of the Quaternary Aquifer (QA), Upper Tertiary Fluvial Aquifer (UTAF) or the Lower Tertiary Basalt (LTB);

whichever is the deeper.

## Water entitlements

The extraction of groundwater for purposes other than domestic and stock use is authorised under a groundwater licence. There are 74 groundwater licences in the Nepean GMA that authorise a total of 6,109.5 ML. People have rights to take groundwater for domestic and stock use without a groundwater licence.

Nearly all of the groundwater licensed is used for irrigation purposes, with six bores licensed for industrial or commercial purposes. Metered groundwater use is less than the total groundwater entitlements and varies each year according to the seasonal conditions.

## Restrictions

The PCV determines the maximum volume of water that can be extracted from the Merrimu GMA; however the local management plan does not place specific restrictions on taking groundwater.

If necessary, SRW is able to temporarily qualify rights to groundwater under section 33AAA of the *Water Act 1989* if a water shortage occurs - for example, if regional drawdown is affecting access to groundwater by users.

Groundwater licences also allow SRW to restrict extraction if required - for example, to minimise the effect of extraction from specific sites if there is a significant impact on nearby users or the aquifer. If restrictions are necessary, SRW will notify licence holders in advance.

## Trading

In considering an application to transfer a licence (temporarily or permanently), SRW must undertake a thorough assessment of the application. An application to transfer a licence is not automatically approved. In deciding whether or not to approve an application, SRW must consider section 40 of the Act, including:

- Availability of water now and in the future;
- Adverse effects that an approval may have on existing users, on waterways and aquifers and on the environment; and
- Existing and projected water quality in the GMA.

When an application is made, SRW will assess whether groundwater extractions at the new site will cause adverse and material interference to any nearby groundwater user. If interference is likely, SRW may set transfer conditions to minimise interference, or it may refuse the application. Approval of an application to transfer may be subject to technical assessments to determine bore interference and impact on surface water bodies.

In the Nepean GMA:

- Permanent transfers are permitted
- Temporary transfers are permitted for a period of up to five years

## **New licences**

New licences can be issued up to the PCV and in accordance policies for managing take and use licences.

## **Metering**

Southern Rural Water meters new and existing licensed water users. This allows SRW to keep track of how much water is being used and enables licence holders to keep within their allocated volume. This means:

1. All new licences for irrigation or commercial purposes require a meter
2. Existing licences of 10ML or greater require a meter

The meters are supplied by SRW, and the licence holder will be responsible for paying the full cost of the meter and initial installation. The meter remains the property of SRW. SRW is responsible for maintenance and replacement.

Meters are read at least twice per year.

## **Consultation**

SRW will consult with licence holders and relevant stakeholders before making changes to the Local Management Plan, other than administrative changes or clarifications.

The Local Management Plan will be reviewed every 5 years, unless an update is required sooner.

# Appendix 4 Wandin Yallock Local Management Plan

## Objective of the Local Management Plan

The objective of the local management plan is to make sure that the groundwater resources in the Wandin Yallock Groundwater Management Area (GMA) are managed in an equitable and sustainable manner.

## Area description

Wandin Yallock GMA is shown below. The plan is lodged with the Central Plan Office, reference number LEGL./17-135

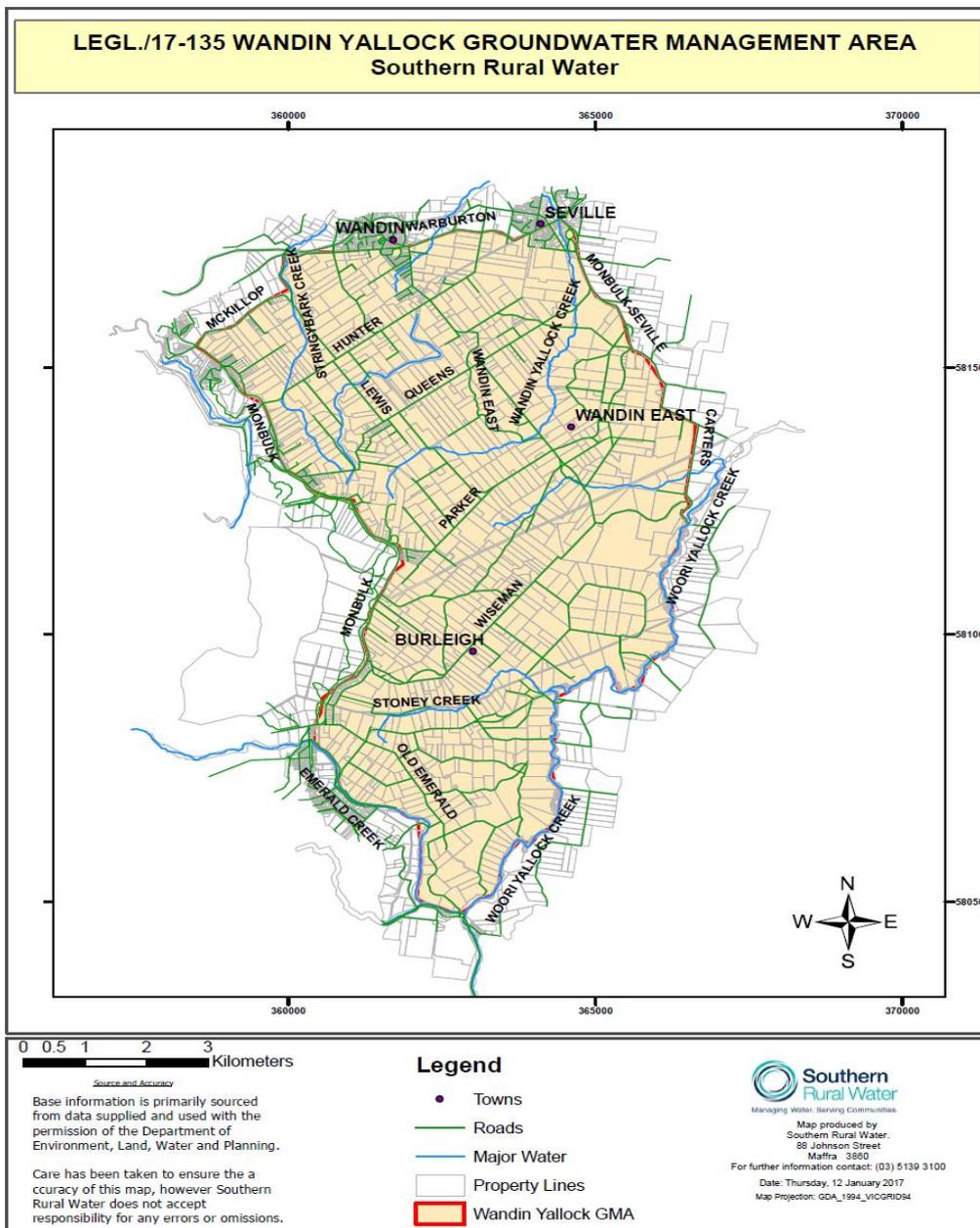


Figure A4-1: Map of Wandin Yallock Groundwater Management Area

## Permissible Consumptive Volume

A Permissible Consumptive Volume (PCV) currently applies to the Wandin Yallock GMA. The PCV is a cap on the amount of groundwater allocated in this management unit. The PCV for Wandin Yallock GMA is 3,008 ML/yr.

The PCV applies to the area covered in Figure A4-1, for all formations below the surface.

## Water entitlements

The extraction of groundwater for purposes other than domestic and stock use is authorised under a groundwater licence. There are 193 groundwater licences in the Wandin Yallock GMA that authorise a total of 3,007.9 ML. People have rights to take groundwater for domestic and stock use without a groundwater licence.

Nearly all of the groundwater licensed is used for irrigation purposes, with three bores licensed for industrial or commercial purposes. Metered groundwater use is less than the total groundwater entitlements, and varies each year according to the seasonal conditions.

## Restrictions

The PCV determines the maximum volume of water that can be extracted from the Wandin Yallock GMA; however, the local management plan does not place specific restrictions on taking groundwater.

If necessary, SRW is able to temporarily qualify rights to groundwater under section 33AAA of the *Water Act 1989* if a water shortage occurs - for example, if regional drawdown is affecting access to groundwater by users.

Groundwater licences also allow SRW to restrict extraction if required - for example, to minimise the effect of extraction from specific sites if there is a significant impact on nearby users or the aquifer. If restrictions are necessary, SRW will notify licence holders in advance.

## Trading

In considering an application to transfer a licence temporarily or permanently, SRW must undertake a thorough assessment of the application. An application to transfer a licence is not automatically approved. In deciding whether or not to approve an application, SRW must consider section 40 of the Act, including:

- Availability of water now and in the future;
- Adverse effects that an approval may have on existing users, on waterways and aquifers and on the environment; and
- Existing and projected water quality in the GMA.

When an application is made, SRW will assess whether groundwater extractions at the new site will cause adverse and material interference to any nearby groundwater user. If interference is likely, SRW may set transfer conditions to minimise interference, or it may

refuse the application. Approval of an application to transfer may be subject to technical assessments to determine bore interference and impact on surface water bodies.

In the Wandin Yallock GMA:

- Permanent transfers are permitted
- Temporary transfers are permitted for a period of up to 5 years

## **New licences**

New licences can be issued up to the PCV and in accordance with the *Water Act 1989* and policies for managing take and use licences.

## **Metering**

Southern Rural Water meters new and existing licensed water users. This allows SRW to keep track of how much water is being used and enables licence holders to keep within their allocated volume. This means:

1. All new licences for irrigation or commercial purposes require a meter
2. Existing licences of 10ML or greater require a meter

The meters are supplied by SRW, and the licence holder will be responsible for paying the full cost of the meter and initial installation. The meter remains the property of SRW. SRW is responsible for maintenance and replacement.

Meters are read at least twice per year.

## **Consultation**

SRW will consult with licence holders and relevant stakeholders before making changes to the Local Management Plan, other than administrative changes or clarifications.

The Local Management Plan will be reviewed every 5 years, unless an update is required sooner.

## Appendix 5 East Port Phillip Bay Groundwater Catchment (Areas outside of GMUs) Local Management Plan

### Objective of the Local Management Plan

The objective of the local management plan is to make sure that the groundwater resources in East Port Phillip Bay Groundwater Catchment are managed in an equitable and sustainable manner.

### Area description

The remaining region of the East Port Phillip Bay Groundwater Catchment comprises all areas excluding the following:

- Frankston Groundwater Management Area Appendix 1
- Moorabbin Groundwater Management Area Appendix 2
- Nepean Groundwater Management Area Appendix 3
- Wandin Yallock Groundwater Management Area Appendix 4

The remaining area of the East Port Phillip Bay Groundwater Catchment is subdivided into two zones based on depth. The boundary between the zones is defined as 200m below the natural surface or 50 metres below the base of the Tertiary surface (whichever is the greater, refer Figure A5-1).

Where it can be demonstrated that extraction from the deeper zone has no material impact on the upper zone, a licence is still required. However, PCVs and restrictions in overlying GMAs and WSPAs would not apply.

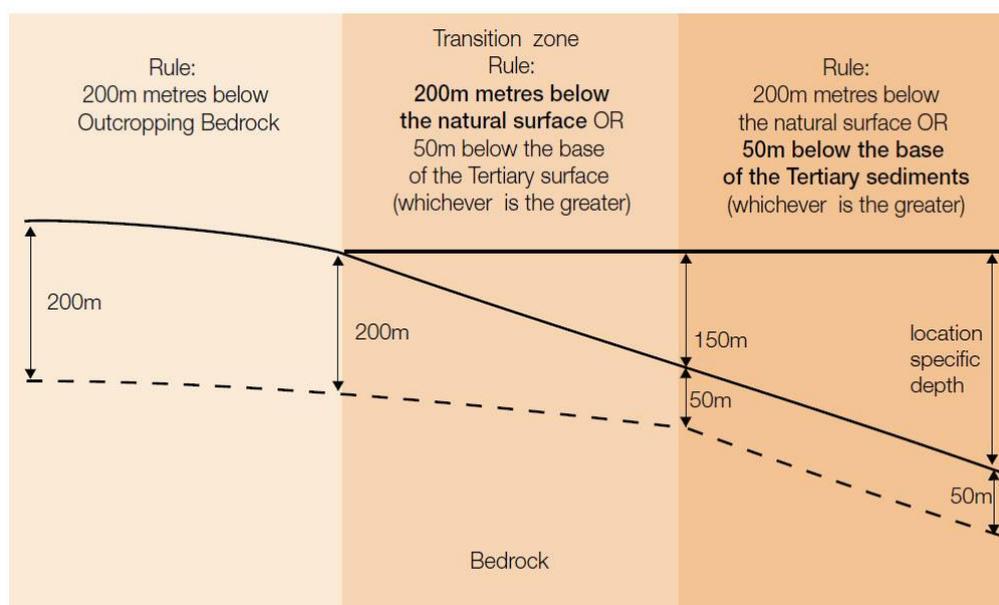


Figure A5-1: Depth defined management zones

## Permissible Consumptive Volume (PCV)

There are no PCVs that currently apply to this area or its zones.

## Water use and entitlements

The extraction of groundwater for purposes other than domestic and stock use is authorised under a groundwater licence. People have the right to take groundwater for domestic and stock use without a groundwater licence. This applies for the entire area and all zones.

Guidelines on the rights to take and use groundwater under section 51 of the Act are available on the water register site ([www.waterregister.vic.gov.au](http://www.waterregister.vic.gov.au)).

## Restrictions

This local management plan does not place any restrictions on taking groundwater.

If necessary, SRW is able to temporarily qualify rights to groundwater under section 33AAA of the *Water Act 1989* if a water shortage occurs - for example, if regional drawdown is affecting access to groundwater by users.

Groundwater licences also allow SRW to restrict extraction if required - for example, to minimise the effect of extraction from specific sites if there is a significant impact on nearby users or the aquifer. If restrictions are necessary, SRW will notify licence holders in advance.

## New licences

New groundwater licences can be issued within this local management plan area. In considering an application for a groundwater licence, SRW is required to undertake a thorough assessment. An application is not automatically approved. In deciding whether or not to approve an application SRW must consider:

- Availability of water now and in the future;
- Adverse effects that an approval may have on existing users, on waterways and aquifers and on the environment; and
- Existing and projected water quality.

When an application is made, SRW will assess whether groundwater extractions at the new site will cause adverse and material interference to any nearby groundwater user. If interference is likely, SRW may set conditions to minimise interference, or it may refuse the application. Approval of an application may be subject to technical assessments to determine water availability, bore interference and impact on surface water bodies.

These rules do not take precedence over PCVs and WSPAs.

## Groundwater trade

There are no trading rules in this Local Management Plan area.

In considering an application to transfer a licence (temporarily or permanently), SRW must undertake a thorough assessment of the application. An application to transfer a licence is not automatically approved. In deciding whether or not to approve an application, SRW must consider section 40 of the Act, including:

- Availability of water now and in the future;
- Adverse effects that an approval may have on existing users, on waterways and aquifers and on the environment; and
- Existing and projected water quality in the area.

When an application is made, SRW will assess whether groundwater extractions at the new site will cause adverse and material interference to any nearby groundwater user. If interference is likely, SRW may set transfer conditions to minimise interference, or it may refuse the application. Approval of an application to transfer may be subject to technical assessments to determine bore interference and impact on surface water bodies.

### Boneo Trading Zone (added 7 June 2016)

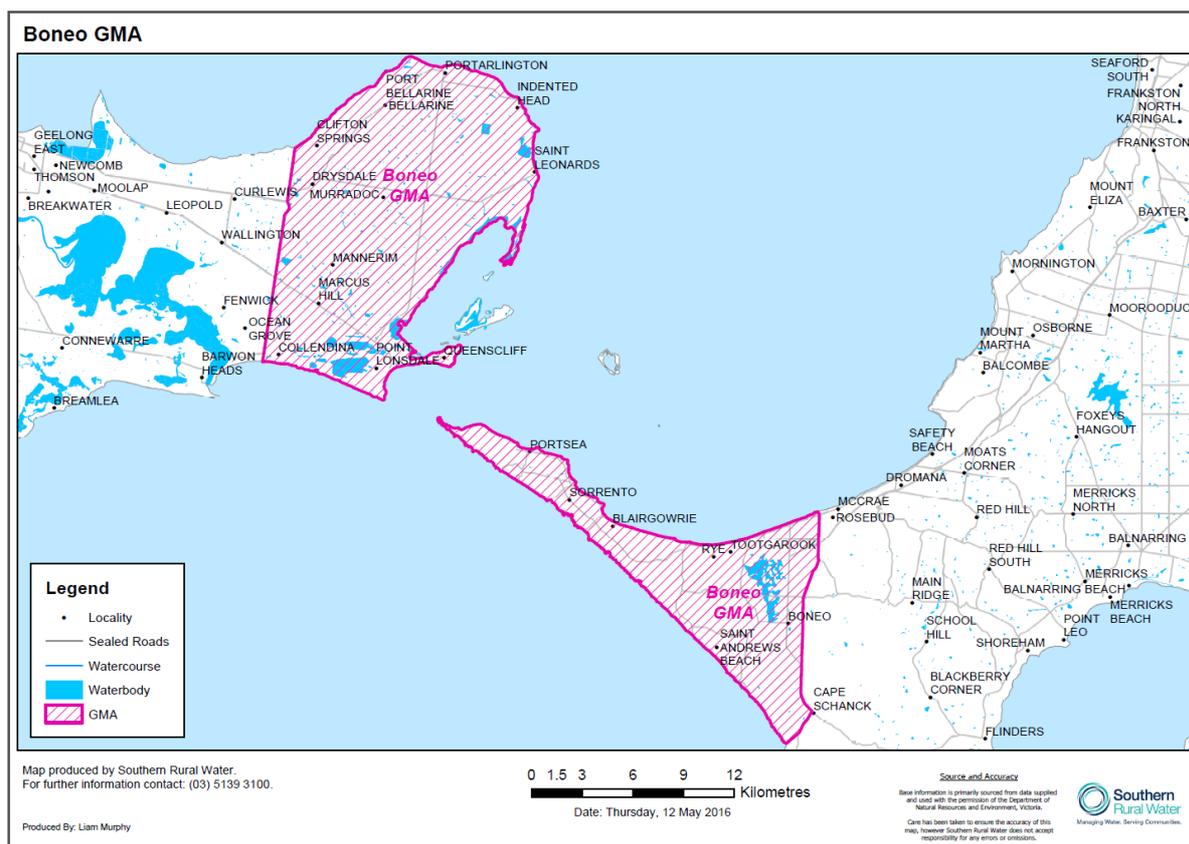


Figure A5-2 - Map of Boneo Trading Zone.



The Boneo Trading Zone is described as the Werribee formation within the boundary as shown in Figure A5-2.

There are groundwater transfer rules that apply to the Boneo trading zone. These include:

- Transfers within the Boneo Trading Zone are permitted
- Transfers from the Boneo Trading Zone to the Nepean GMA are not permitted
- Transfers from the Boneo Trading Zone to capped GMAs and WSPAs are not permitted
- A limit of 4,000 ML of entitlement applies to the Boneo Trading Zone
- SRW may use its discretion to allocate additional entitlement temporarily to manage licence anomalies.

## **Metering**

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2. Existing licences of 10ML or greater require a meter

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Meters are read at least twice per year.

## **Consultation**

SRW will consult with licence holders and relevant stakeholders before making changes to the Local Management Plan, other than administrative changes or clarifications.

The Local Management Plan will be reviewed every 5 years, unless an update is required sooner.