#### Water Act 1989

#### PERMISSIBLE CONSUMPTIVE VOLUME GROUNDWATER ORDER 2024

I, **Hon Harriet Shing MP**, Minister for Water, as Minister administering the **Water Act 1989**, make the following Order:

### 1. Citation

This Order is called the Permissible Consumptive Volume Groundwater Order 2024 (this Order).

# 2. Authorising provision

This Order is made under section 22A(1) of the Water Act 1989.

### 3. Commencement

This Order comes into operation on the date it is published in the Victoria Government Gazette.

### 4. Purpose

The purpose of this Order is to set the permissible consumptive volumes for groundwater areas specified in the Order.

## 5. Definitions

In this Order –

'Act' means Water Act 1989:

**'AHD'** means Australian Height Datum as defined in the Surveying (Cadastral Surveys) Regulations 2015;

**'contour line'** in relation to the Paaratte Groundwater Management Area means, a line coloured green on the Paaratte Groundwater Management Area Plan joining points that have the same elevation in metres AHD. Contour lines on the Paaratte Groundwater Management Area Plan have a value attributed to them which is a measure of their elevation by reference to AHD:

'formula' means  $((((A - B) / L) \times S) + B)$  where:

A = is the highest elevation of the Contour Line (in metres AHD) on the respective sheet of the Paaratte Groundwater Management Area Plan nearest to the Point;

B = is the lowest elevation of the Contour Line (in metres AHD) on the respective sheet of the Paaratte Groundwater Management Area Plan nearest to the Point;

- L = is the shortest distance of a straight line (in metres) between the nearest highest and nearest lowest elevation Contour Lines on the respective sheet of the Paaratte Groundwater Management Area Plan and intersecting the Point;
- S = is the shortest distance of a straight line (in metres) between the nearest lowest elevation Contour Line on the respective sheet of the Paaratte Groundwater Management Area Plan and the Point;
- **'Dairy Shed Water Licence Transition Program'** means the Program run by the Department of Energy, Environment and Climate Action developed to ensure water used in dairy sheds, such as water for washing yards, milking equipment, platforms and other plant, is fully licensed;
- **'geographical boundary'** in relation to the Paaratte Groundwater Management Area means the line coloured red on the Paaratte Groundwater Management Area Plan and is referable to a 2 dimensional space;
- 'All other formations' in Column E of Table 2 in this Order means all formations from the land surface to 50 metres below the base of the Tertiary Confined Sand Aquifer or 200 metres below the land surface whichever is deeper, excluding the Pliocene Sands Aquifer, Tertiary Limestone Aquifer, and the Tertiary Confined Sand Aquifer;
- 'Lower Eastern View formation' in relation to the Jan Juc Groundwater Management Are means the basal member of the Eastern View Group which was formed in the Paleocene Period (Lygistepollenites balmei Zone), which consists of micaceous silts, carbonaceous clays, brown coal and fine to coarse grained sands and gravels and which overlies the Otway Group, the stratigraphic unit as described in the Australian Stratigraphic Units Database;
- **'LTB'** means the stratigraphic unit 'Mornington Volcanic Group' as registered in the Geoscience Australia Australia Stratigraphic Units Database (Strat. No. 76939);
- 'MAR scheme' means a managed aquifer recharge scheme being a scheme or schemes for the intentional recharge of an aquifer, either by injection or infiltration, and recovery by planned extraction;
- 'Paaratte Groundwater Management Area Plan' means Plan No. LEGL./18-090 lodged in the Central Plan Office, Department of Environment, Land, Water and Planning.
- 'Paaratte Groundwater Management Area'; is a three (3) dimensional space delineated by:
- (i) a geographical area as shown by the Geographical Boundary on Sheets 1 and 2 of the Paaratte Groundwater Management Area Plan; and
- (ii) geological formations (which form the groundwater area) with upper and lower surfaces (upper and lower elevation boundaries) as shown by Contour Lines on Sheets 1 and 2 of the Paaratte Groundwater Management Area Plan respectively, where:
  - (a) the upper boundary of the Paaratte Groundwater Management Area for any Point within the Geographical Boundary where a Point in sheet 1 of the Paaratte Groundwater Management Area Plan is located:
    - in an area coloured blue on the Paaratte Groundwater Management Area Plan, the upper boundary is the ground surface; or

- on a Contour Line, the elevation of the upper boundary is the elevation of the Contour Line; or
- between a Contour Line and the Geographical Boundary of the Area or an area coloured blue on the Paaratte Groundwater Management Area Plan, the elevation of the upper boundary is the elevation of the Contour Line nearest to the Point; or
- between two Contour Lines, the elevation of the upper boundary is determined by the Formula;
- (b) The lower boundary of the Paaratte Groundwater Management Area for any Point within the Geographical Boundary where a Point in sheet 2 of the Plan is located:
  - in an area coloured orange on the Paaratte Groundwater Management Area Plan, the lower boundary is unlimited in elevation; or
  - on a Contour Line, the lower boundary is the elevation of the Contour Line; or
  - within one encapsulating Contour Line or between a Contour Line and the Geographical Boundary of the Area or an area coloured orange on the Paaratte Groundwater Management Area Plan, the elevation of the lower boundary is the elevation of the Contour Line nearest to the Point; or
  - between two Contour Lines, the lower boundary is determined by the Formula;
- 'PCV' means a permissible consumptive volume declared under section 22A(1) of the Act;
- 'Plan' means a Plan lodged in the Central Plan Office, LANDATA®, State Government of Victoria;
- **'Pliocene Sands Aquifer'** means the stratigraphic unit 'Parilla Sand' as registered in the Geoscience Australia Australia Stratigraphic Units Database (Strat. No. 14873);
- 'Polluted' means pollute (past tense) as defined in section 3 of the Water Act 1989.
- 'Point' means a geographical location at ground surface level on the Paaratte Groundwater Management Area Plan;
- 'QA' means the combined stratigraphic units of 'Bridgewater Formation' as registered in the Geoscience Australia Australia Stratigraphic Units Database (Strat. No. 2543);
- 'Returned' means, for the purposes of clause 7(b)(iv), water taken under a section 51 licence that is:
  - (a) put back into the same groundwater area, within the same water season; and
  - (b) measured and accounted for; and
  - (c) not polluted when it is put back into the same groundwater area -

in accordance with the conditions on that section 51 licence.

# 'section 51 licence'

A licence issued under section 51 of the Water Act 1989, including any conditions prescribed or fixed under section 56 of that Act.

**'sub-zone'** means that part of the West Wimmera Groundwater Management Area that is the area identified as a sub-zone in Plan No. LEGL./12-077 lodged in the Central Plan Office;

- 'Tertiary Confined Sand Aquifer' means the stratigraphic unit 'Renmark Group' as registered in the Geoscience Australia Australia Stratigraphic Units Database (Strat. No. 16036);
- 'Tertiary Limestone Aquifer' means the stratigraphic unit 'Murray Group' as registered in the Geoscience Australia Australia Stratigraphic Units Database (Strat. No. 13544);
- 'this Order' means this Permissible Consumptive Volume Groundwater Order 2024;
- 'Upper Eastern View formation' in relation to the Jan Juc Groundwater Management Area means the member of the Eastern View Group which was formed in the Early Eocene Period (Lower to Upper Malvacipollis diversus Zones), which consists of clay, silty clay, silt to fine, medium grained sand sequences with minor fine gravel lenses and brown coal seams in the top of the sequence and which overlies the Middle Eastern View formation;
- 'UTAF' means the stratigraphic unit 'Brighton Group' as registered in as registered in the Geoscience Australia Australia Stratigraphic Units Database (Strat. No. 2556);
- 'Water Season' has the same meaning as in the Act and means any period of 12 calendar months beginning on 1 July in any year and ending on 30 June in the following year;

'zone' means a zone as referred to on a Plan.

# 6. Areas to Which the Order Applies

The areas to which this Order applies are shown on the Plans listed in Column A of Table 1 and Table 2 below and include the subsurface stratum of land and the geological formations applicable to the zones and depths marked on each Plan or described in Column C of Table 1 and Column A of Table 2. The areas shown on the Plans are, or shall be known by, the name listed in Column A of Table 1 and Table 2.

# 7. Permissible Consumptive Volumes

- 7.1 Subject to clause 7.3, I declare that the total volume of groundwater that may be taken in each area listed in Table 1 and Table 2, whether used in that area or elsewhere, under the Act or any other Act, during a water season must not exceed:
  - (a) the volume listed in Column D of Table 1 and Columns B to E in Table 2; and
  - (b) the volume listed in Column D of Table 1 and Columns B to E in Table 2 plus the volume that may be taken under any licence issued or amended or to be issued or amended under section 51 of the Act in the area
    - (i) to take and use groundwater for the purpose of dairy shed cleaning as provided for under the Dairy Shed Water Licence Transition Program; and
    - (ii) in respect of a MAR scheme and which contains a condition prohibiting the licence holder from taking more groundwater than the volume of water injected or infiltrated under the scheme into an aquifer in the area; and
    - (iii) to take over a period of a maximum of 14 consecutive days for the purpose of a single pumping test:
      - A. no more than 30 megalitres of groundwater; or

B. groundwater amounting to no more than 2 per cent of the PCV declared for the area:

whichever is the lesser amount; and

(iv) that must be returned subject to the conditions on that licence.

**Note** - For groundwater area accounting purposes, returned water is accounted for such that the licensed consumptive volume (inclusive of any loss) is the take volume minus the return volume. Only the licensed consumptive volume is considered within the permissible consumptive volume in Column D of Table 1 and Columns B, C, D and E of Table 2.

7.2 Clause 7(b)(iv) only applies to licences issued, renewed or amended after the commencement of this Order to include conditions requiring water to be returned.

### 7.3 Where:

- (a) a licence was issued prior to the commencement of this Order that involved the return of water, with the return either specified as a condition of the licence or not; and
- (b) that licence is amended or renewed resulting in a volume now being accounted for under Clause 7.1(b)(iv) -

the volume determined under clause 7.1(a) is taken to be reduced by the volume accounted for under 7.1(b)(iv).

TABLE 1

Column A	Column B	Column C	Column D
Groundwater area name	lwater area name Plan number Stratum, formation or zone		PCV
			(megalitres)
Barnawartha Groundwater	LEGL./04-128	All formations below the	2,100
Management Area		surface.	
Broken Groundwater	LEGL./18-258	In the hatched area all	3,732
Management Area		formations below 25 metres	
		from the surface to a depth of	
		200 metres otherwise all	
		formations below the surface	
Device of Community of Communit	I CI /07 224	to a depth of 200 metres.	5 224
Bungaree Groundwater	LGL./97–224	All formations below the surface.	5,334
Management Area Cardigan Groundwater	LEGL./04-504	All formations below the	3,967
	LEGL./04-304	surface.	3,907
Management Area Central Victorian Mineral	LEGL./13-260	All formations to 200 metres	6,024
Springs Groundwater	LEGL./13-200	below the surface, or 50	0,027
Management Area		metres below the base of the	
Tranagement / trea		basalt or deep lead whichever	
		is the greater.	
Colongulac Groundwater	LEGL./04-129	All formations from surface	4,695
Management Area		to 60 metres below the	
		surface.	
Condah Water Supply	LGL./97–226	All formations from 70	7,475
Protection Area		metres to 200 metres below	
		the surface.	
Corinella Groundwater	LEGL./06-487	All formations below the	2,550
Management Area		surface.	
Cut Paw Paw Groundwater	LEGL./04–131	All formations below 50	3,650
Management Area	1 F.CT. /01 .05	metres from the surface.	10.500
Denison Water Supply	LEGL./01-87	All formations from the	18,502
Protection Area		surface to 25 metres below	
Doutson Water Sugaly	LGL./97–230	surface.  All formations from the	5 100
Deutgam Water Supply Protection Area	LGL./97-230	surface to 30 metres below	5,100
1 Totection Area		the surface.	
Eildon Groundwater	LEGL./15-280	All formations from the	1,496
Management Area	LEGE., 13 200	surface to a depth of 200	1,150
		metres.	
Frankston Groundwater	LEGL./04-133	All formations below the	3,200
Management Area		surface.	
Gellibrand Groundwater	LEGL./04-134	All formations below the	0
Management Area		surface.	
Gerangamete Groundwater	LEGL./04-135	All formations below the	239
Management Area		surface.	
Giffard Groundwater	LEGL./04-136	All formations from 50	5,689
Management Area		metres to 200 metres below	
		the surface.	

Column A	Column B	Column C	Column D
Groundwater area name			PCV
		,	(megalitres)
Glenormiston Groundwater Management Area	LEGL./04-137	All formations from the surface to 60 metres below the surface.	2,698
Hawkesdale Groundwater Management Area	LEGL./06-352	The surface substratum of land and the geological formations applicable to the zones and depths marked on the Plan.	16,161
Heywood Groundwater Management Area	LEGL./04–139	All formations from surface to 70 metres below the surface.	8,500
Jan Juc Groundwater Management Area**	LEGL./09-252	Zone 1 – All formations below the surface.	250
		Zone 2 – Upper Eastern View Formation.  Zone 2 – Lower Eastern View Formation.	35,000 in any five year period
		Zone 2 – All formations below the surface other than the Lower Eastern View formation and the Upper Eastern View formation.	0
Katunga Water Supply Protection Area	LEGL./06-251	All formations below 25 metres from the surface.	60,577
Kiewa Groundwater Management Area	LEGL./14-207	All formations to 200 metres below the surface.	3,852
Koo Wee Rup Water Supply Protection Area	LEGL./04-230	All formations below the surface.	12,915
Lancefield Groundwater Management Area	LEGL./04–143	All formations below the surface.	1,485
Leongatha Groundwater Management Area	LEGL./04-144	All formations below the surface.	6,500
Loddon Highlands Water Supply Protection Area	LEGL./09-421	All formations below the surface.	20,697
Lower Campaspe Valley Water Supply Protection Area	LEGL./09-253	All formations below the surface with the exception of all formations from the surface to 25 metres below the surface north of the Waranga Western Channel.	55,875
Lower Ovens Groundwater Management Area	LEGL./06-494	All formations below the surface.	25,200
Merrimu Groundwater Management Area	LEGL./04–145	All formations from the surface to 30 metres below the surface.	451

Column A	Column B	Column C	Column D
Groundwater area name	Plan number	Stratum, formation or zone	PCV
			(megalitres)
Mid Goulburn Groundwater Management Area	LEGL./06-495	Zone 1070 Kialla – All formations below 25 metres below ground surface to 50 metres into bedrock or 200 metres from the surface (whichever is the greater depth).  Zone 1071 Nagambie – All formations from ground surface to 50 metres into bedrock or 200 metres from the surface (whichever is the greater depth).	Collectively 12,470
Mid Loddon Groundwater Management Area	LEGL./03-095	All formations below the surface.	34,037
Moe Groundwater Management Area	LEGL./04-146	All formations below 25 metres from the surface.	8,200
Moorabbin Groundwater Management Area	LEGL./04-147	All formations below the surface.	2,700
Murrayville Groundwater Management Area	LEGL./ 16-483	All formations from 70 metres to 200 metres below the surface.	11,005
Nepean Groundwater Management Area	LEGL./04-220	Upper aquifer being all aquifers from: (A) the natural surface to 200 metres 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.	6,110
Newlingrook Groundwater Management Area	LEGL./04–153	All formations below the surface.	1,977
Nullawarre Water Supply Protection Area	LGL./97–245	All formations from surface to 250 metres below the surface.	22,741
Orbost Groundwater Management Area	LEGL./04–154	All formations from 20 metres to 45 metres below the surface.	1,217
Paaratte Groundwater Management Area	LEGL./18-090	All formations contained within the Paaratte	4,606

Column A	Column B	Column C	Column D	
Groundwater area name	Plan number	Stratum, formation or zone	PCV	
			(megalitres)	
		Groundwater Management		
		Area as defined above.		
Portland Groundwater	LEGL./04-156	All formations below 200	7,795	
Management Area		metres from the Surface.		
Rosedale Groundwater	LEGL./04–157	Zone 1 – All formations from	Collectively	
Management Area		50 metres to 150 metres	23,373	
		below the surface.		
		Zone 2 – All formations from		
		25 metres to 350 metres		
		below the surface.		
		Zone 3 – All formations from		
		200 metres to 300 metres		
	LECT /01 00	below the surface.	20.207	
Sale Water Supply Protection	LEGL./01-88	All formations from 25 to 200	20,297	
Area Stratford Communication	LECT /04 150	metres below the surface.	C - 11 + 1	
Stratford Groundwater	LEGL./04–158	Zone 1 – All formations below 250 metres from the	Collectively	
Management Area		surface.	27,686	
		Zone 2 – All formations	-	
		below 350 metres from the		
		surface.		
Strathbogie Groundwater	LEGL./13-129	All formations to 200 metres	1,660	
Management Area	LEGL./13-129	below the surface.	1,000	
Tarwin Groundwater	LEGL./04-159	All formations from surface	1,300	
Management Area	LLGL./04-137	to 25 metres below the	1,500	
Trianagement / freu		surface.		
Upper Goulburn	LEGL./13-128	All formations to 200 metres	8,568	
Groundwater Management	22.73 120	below the surface.	0,200	
Area		0 010 11 0220 03220000		
Upper Murray Groundwater	LEGL./14-208	All formations to 200 metres	7,674	
Management Area		below the surface.	,,,,,,	
Wa De Lock Groundwater	LEGL./04-160	Zone 1 – All formations from	12,535	
Management Area		the surface to 25 metres	,	
_		below the surface.		
	LEGL./04-161	Zone 2 – All formations from	17,000	
		surface to 25 metres below		
		the surface.		
	LEGL./04-162	Zone 3 – All formations from	1,200	
		surface to 25 metres below		
		the surface.		
Wandin Yallock	LEGL./03-133	All formations below the	3,027	
Groundwater Management		surface.		
Area				
Warrion Water Supply	LGL./97–252	All formations below the	14,086	
Protection Area		surface.		

Column A	Column B	Column C	Column D
Groundwater area name	Plan number	Stratum, formation or zone	PCV
			(megalitres)
West Wimmera Groundwater	LEGL./12-075 and	For each aquifer identified in	See Columns
Management Area	LEGL./12-077	table 2 for each zone	B to D in
		specified in Column A of	Table 2
		Table 2.	
Wy Yung Water Supply	LEGL./01-49	Zone 1 – All formations from	691
Protection Area		surface to 25 metres below	
		the surface.	
		Zone 2 – All formations from	5,342
		surface to 25 metres below	
		the surface.	
		Zone 3 – All formations from	1,430
		surface to 25 metres below	
		the surface.	
Yangery Water Supply	LGL./97–254	All formations from surface	14,352
Protection Area		to 100 metres below the	
		surface.	
Yarram Water Supply	LEGL./02-032	Zone 1 – All formations	Collectively
Protection Area		below 200 metres from the	25,690
		surface.	
		Zone 2 – All formations	
		below the surface.	

<sup>\*\*</sup>The permissible consumptive volume for the Jan Juc Groundwater Management Area includes the volume of groundwater provided for in the Bulk Entitlement (Anglesea Groundwater) Order 2009

TABLE 2

West Wimmera Groundwater Management Area				
Column A	Column B	Column C	Column D	Column E
Area Zone	Pliocene Sands Aquifer	Tertiary Limestone Aquifer	Tertiary Confined Sand Aquifer	All other formations
LEGL./12-075 and LEGL./12-077	PCV (megalitres)	PCV (megalitres)	PCV (megalitres)	PCV (megalitres)
Big Desert Zone	0	25	0	0
Gymbowen Zone	50	2,000	200	0
Little Desert Zone	0	25	0	0
Neuarpur Zone				
• Neuarpur Sub-zone 1	0	20,700	200	0
• Neuarpur Sub-zone 2	0	4,050	200	0
Northern Zone	50	22,390	500	0
Southern Zone				
<ul> <li>Apsley Sub-zone</li> </ul>	0	2,901	200	0
<ul> <li>Edenhope Sub-zone</li> </ul>	50	680	50	0
<ul> <li>Langkoop Sub-zone</li> </ul>	0	2,000	100	0
<ul> <li>Ullswater Sub-zone</li> </ul>	50	888	100	0

Hon Harriet Shing MP Minister for Water

Dated: 12 / 07 / 2024