

WESTERN DOWNS REGIONAL COUNCIL

# Water Restriction Procedure

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This procedure should be read in conjunction with the WDRC Water Restriction Policy and Trigger Points documents.

<b>Permitted Uses</b>	<b>Normal</b>	<b>Conservation/Efficiency</b>	<b>Emergency</b>	<b>Comments</b>
<b>Aim</b>	<p>Customers are permitted to use water in the manner to which they choose with a minimum of restriction and inconvenience.</p> <p>Businesses and organisations that use water will have few usage restrictions.</p> <p>Any restrictions are aimed at a basic level of usage efficiency and to limit infrastructure cost.</p>	<p>Customers are required to minimise the non-essential water usage at this level.</p> <p>Businesses and organisations that use water will require a Water Efficiency Management Plan.</p> <p>Such a plan may require more efficient use of water at this level.</p>	<p>Water usage is permitted for essential domestic and business functions only.</p> <p>Businesses and organisations that rely on water must have a Water Efficiency Management Plan in place.</p> <p>Such a plan may pose conditions on water usage at this level.</p>	
<b>Domestic use for laundry, bathing, cooking, toilet flushing and consumption.</b>	No restriction	No restriction	No restriction	
<b>Irrigation of gardens, lawns and new turf at domestic premises.</b>	<p>Restricted to the hours of midnight to 9am and 4pm to midnight on allocated days based on property numbers.</p> <p>Sprinklers, handheld hoses and installed drip systems may be used.</p> <p>Odd numbered properties and unnumbered properties: Wednesday, Friday, Sunday</p> <p>Even numbered properties: Tuesday, Thursday and Saturday</p> <p>No watering permitted Monday</p>	<p>Restricted to the hours of 6am to 9am and 4pm to 7pm on allocated days based on property numbers.</p> <p>Handheld hoses and installed drip systems only may be used.</p> <p>Odd numbered properties and unnumbered properties: Wednesday, Friday, Sunday</p> <p>Even numbered properties: Tuesday, Thursday and Saturday</p> <p>No watering permitted Monday</p>	<p>Bucket watering only is permitted at anytime on allocated days.</p> <p>Bucket watering only.</p> <p>Odd numbered properties and unnumbered properties: Wednesday, Friday, Sunday</p> <p>Even numbered properties: Tuesday, Thursday and Saturday</p> <p>No watering permitted Monday</p>	

<b>Permitted Uses</b>	<b>Normal</b>	<b>Conservation/Efficiency</b>	<b>Emergency</b>	<b>Comments</b>
<b>Rainwater tank, swimming pools, ponds or fountain top ups.</b>	Permitted during watering hours.	Permitted during watering hours.	Not permitted.	
<b>Washing of motor vehicles, boats, paved areas, driveways and houses for non-commercial purposes.</b>	Permitted during watering hours. Must use a hand held hose fitted with a trigger or twist type nozzle.	Permitted during watering hours. Must use a hand held hose fitted with a trigger or twist type nozzle.	Not permitted.	A business that has a concrete driveway but is not in the business of washing concrete driveways would comply with this requirement.
<b>Small business usage where water is a primary business input eg washing of houses, car detailing, etc</b>	Permitted anytime but must use a high-pressure water cleaning unit and trigger nozzles or be subject to a Water Efficiency Management Plan	Permitted anytime but must use a high-pressure water cleaning unit and trigger nozzles or be subject to a Water Efficiency Management Plan	Subject to a Water Efficiency Management Plan	Water other than domestic is a critical requirement to the business. For example, a business that washes houses would comply with this requirement.
<b>Large commercial or industrial business usage.</b>	Subject to the requirements of a Water Efficiency Management Plan	Subject to the requirements of a Water Efficiency Management Plan	Subject to the requirements of a Water Efficiency Management Plan	
<b>Sporting facilities and schools.</b>	As per an approved Water Efficiency Management Plan	As per an approved Water Efficiency Management Plan	As per an approved Water Efficiency Management Plan	
<b>Other purposes.</b>	All exemptions for other purposes will be subject to an individual application to Council and may be require a Water Efficiency Management Plan.	All exemptions for other purposes will be subject to an individual application to Council and may be require a Water Efficiency Management Plan.	All exemptions for other purposes will be subject to an individual application to Council and may be require a Water Efficiency Management Plan.	

# TRIGGER POINTS

	<b>Normal</b>	<b>Conservation</b>	<b>Emergency</b>	
TARGET AVERAGE DOMESTIC CONSUMPTION	LITRES/PERSON/DAY 370	LITRES/PERSON/DAY 282	LITRES/PERSON/DAY 193	COMMENTS
<b>DALBY</b>				
Available Water Supply Trigger Point to Impose Restrictions	Operation at the normal level assumes that Loudoun Weir is above the conservation trigger level and all the other resources eg: desalination plants, "A" and "B" level bores are readily available, and all reservoirs are on line. Normal demand management practices apply.	Loudoun Weir at <25%(2.1m below crest) but all bore, and desalination capacity is available.  Approximately 148 ML remaining in the weir of which about 70ML is available for use.	Loudoun Weir unusable and 50% loss of desalination or bore capacity.	The Dalby supply uses the A bores and the desalination plants for more than 90% of the total town supply and are reliable but have a relatively limited peaking capacity. Loudoun Weir has limited reliability but is a good backup supply and a good resource to meet peak demands. Provided bores and desalination plants are available, supply at the conservation level should be possible at all times. However, this will be inadequate capacity to meet extended peaks anticipated at the normal level of restriction without Loudoun Weir.
Trigger Point to Lift Restrictions		Loudoun Weir >50%	Return of Capacity	Because the storage is relatively small it's important that levels be changed only after a fair margin above the trigger point has been achieved.
Target Demand	4.1 ML/day	3.1ML/day	<2.1 ML/day	Based on 11000 EP
<b>CHINCHILLA</b>				
To impose restrictions	Water plant, and reservoir capacity are normal. Normal demand management practices apply.	Chinchilla Weir 35% (2.75m below crest) 3100ML available	Chinchilla Weir 20% (4.25m below crest)	Water above 35% will be released or used by irrigators and is controlled by Sunwater with levels moving quite quickly. Below 35% water is preserved for the town. Usage of capacity below 10% is uncertain. To lift restrictions trigger levels need to be well exceeded to prevent rapid movement between levels.
To lift restrictions		Chinchilla Weir >45%	Chinchilla Weir >45%	
Target Demand	2.6 ML/day	1.97 ML/day	<1.35 ML/day	Based on 7000

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TARGET AVERAGE DOMESTIC CONSUMPTION	LITRES/PERSON/DAY 370	LITRES/PERSON/DAY 282	LITRES/PERSON/DAY 193	COMMENTS
<b>MILES</b>				
To impose restrictions	Operation at the normal level assumes that the desalination plant is available, Gil Weir is above the conservation trigger points, the filtration plant and all reservoirs are available.	Gill Weir 25% (3.3m below crest) About 270ML remaining 150ML available.	Gill Weir 0% (>5m below crest)	The desalination plant provides a base load of about 0.55 ML/day, which means that this plant alone is unlikely to be able to maintain the town at "Conservation " levels if no water is available from Gil Weir. However, given that Gil Weir is very reliable at extraction levels of around 0.7ML/day operation at Normal levels would generally be expected. With the desalination plant available Gil Weir can be operated to much lower levels, without fear of total supply failure.
To lift restrictions	Normal demand management practices apply.	Gill Weir >35%	Gill Weir >35%	
Target Demand	0.8 ML/day	0.564ML/day	<0.385ML/day	Based on 2000EP
<b>TARA</b>				
To impose restrictions	Operation at the normal level assumes that the Tara lagoon is above the conservation trigger point, the filtration plant and desalination plants are available, and the reservoirs are on line.	Tara lagoon <39% (2.272m below weir crest) but desalination plant available.	Tara lagoon unusable but desalination plant available	The desalination plant can supply a base load of about 0.36ML/day which means that it can meet the conservation level without the lagoon being routinely available but there is no backup and no peaking capacity.  The lagoon has a relatively large amount of water that is potentially inaccessible by the existing raw water pump station.
To lift restrictions	Normal demand management practices apply.	Tara lagoon >60%	Tara lagoon >40%	
Target Demand	0.37ML/day	0.282ML/day	0.19ML/day	Based on 1000 EP

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TARGET AVERAGE DOMESTIC CONSUMPTION	LITRES/PERSON/DAY 370	LITRES/PERSON/DAY 282	LITRES/PERSON/DAY 193	COMMENTS
<b>JANDOWAE</b>				
To impose restrictions	Water plant, and reservoir capacity are normal. Normal demand management practices apply.	Storage capacity <40% (2.45m from the top of the pumpwell) Maximum of 380 ML available	Storage capacity <20% (4.2 m from the top of the pumpwell. Maximum of 200ML available.	The Jandowae Dam is the primary source of water for Jandowae but can be pumped to quite low levels (8%). Emergency supply is available via a bore field of limited capacity and relatively poor quality.
To lift restrictions		Storage capacity >50%	Storage capacity >40%	
Target Demand	0.334 ML/day	0.254 ML/day/day	0.173 ML/day /day	Based on 900 EP
<b>WANDOAN</b>				
To impose restrictions	Operation at normal levels assumes all systems available.	Loss of one bore or significant system capacity loss	Major system capacity issue	Wandoan is supplied by the two GAB bores either of which are able to supply 100% of the capacity required in a duty standby arrangement. Normal supply levels should be able to be maintained based on system capacities and reliability. Conservation and emergency levels would be needed if capacity or reliability is threatened.
To lift restrictions	Normal demand management practices applied.	Return of Capacity	Return of Capacity	
Target Demand	148 kilolitres/day	112 kilolitres/day	77 kilolitres/day	Based on 400 EP
<b>BELL</b>				
To impose restrictions	Koondaii Dam 100%	Koondaii Dam 80%	Koondaii Dam 60%	Emergency supply is available via a bore field of limited capacity and relatively poor quality.
To lift restrictions		Koondaii Dam 90%	Koondaii Dam 75%	
Target Demand	170 kilolitres/day	150 kilolitres/day	105 kilolitres/day	

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<b>CONDAMINE</b>				
To impose restrictions	Storage 100%	Storage < 80%	Storage < 60%	
To lift restrictions		Storage > 90%	Storage > 75%	
Target Demand	100 kilolitres/day	85 kilolitres/day	60 kilolitres/day	
<b>WARRA</b>				
To impose restrictions	Loss of Capacity	NOT APPLICABLE UNLESS BORE YIELD BECOMES PARTIALLY DEPLETED IN THE FUTURE		Off stream storage has high reliability. Conservation and emergency levels would be needed if capacity or reliability is threatened.
To lift restrictions	Return of Capacity			
Target Demand	90 kilolitres/day	80 kilolitres/day	60 kilolitres/day	
<b>MEANDARRA</b>				
To impose restrictions	Loss of Capacity	NOT APPLICABLE UNLESS BORE YIELD BECOMES PARTIALLY DEPLETED IN THE FUTURE		
To lift restrictions	Return of Capacity			
Target Demand	120 kilolitres/day	105 kilolitres/day	75 kilolitres/day	
<b>DULACCA</b>				
To impose restrictions	Loss of Capacity	NOT APPLICABLE UNLESS BORE YIELD BECOMES PARTIALLY DEPLETED IN THE FUTURE		
To lift restrictions	Return of Capacity			
Target Demand	90 kilolitres/day	80 kilolitres/day	60 kilolitres/day	
<b>GLENMORGAN</b>				
To impose restrictions	Loss of Capacity	NOT APPLICABLE UNLESS SURFACE WATER BECOMES PARTIALLY DEPLETED IN THE FUTURE		
To lift restrictions	Return of Capacity			
Target Demand	1500 litres/day	1300 litres/day	900 litres/day	

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<b>KAIMKILLENBUN</b>				
To impose restrictions	NOT APPLICABLE UNLESS BORE YIELD IMPROVES OR A NEW SOURCE IS PROVIDED		Loss of Capacity	
To lift restrictions			Return of Capacity	
Target Demand	35 kilolitres/day	30 kilolitres/day	25 kilolitres/day	
<b>JIMBOUR</b>				
To impose restrictions	Loss of Capacity	NOT APPLICABLE UNLESS BORE YIELD BECOMES PARTIALLY DEPLETED IN THE FUTURE		
To lift restrictions	Return of Capacity			
Target Demand	30 kilolitres/day	25 kilolitres/day	20 kilolitres/day	
<b>MOONIE</b>				
To impose restrictions	Loss of Capacity	NOT APPLICABLE UNLESS BORE YIELD BECOMES PARTIALLY DEPLETED IN THE FUTURE		
To lift restrictions	Return of Capacity			
Target Demand	25 kilolitres/day	20 kilolitres/day	15 kilolitres/day	
<b>THE GUMS</b>				
To impose restrictions	Loss of Capacity	NOT APPLICABLE UNLESS BORE YIELD BECOMES PARTIALLY DEPLETED IN THE FUTURE		
To lift restrictions	Return of Capacity			
Target Demand	9600 litres/day	8400 litres/day	6000 litres/day	
<b>WESTMAR</b>				
To impose restrictions	Loss of Capacity	NOT APPLICABLE UNLESS BORE YIELD BECOMES PARTIALLY DEPLETED IN THE FUTURE		
To lift restrictions	Return of Capacity			
Target Demand	9600 litres/day	8400 litres/day	6000 litres/day	



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<b>BRIGALOW</b>				
To impose restrictions		Chinchilla Weir 35%	Chinchilla Weir 20%	Conservation and emergency levels would be needed if capacity or reliability is threatened.
To lift restrictions		Chinchilla Weir >45%	Chinchilla Weir >45%	
Target Demand	30 kilolitres/day	15 kilolitres/day	10 kilolitres/day	
<b>KOGAN</b>				
To impose restrictions	Loss of Capacity	NOT APPLICABLE UNLESS BORE YIELD BECOMES PARTIALLY DEPLETED IN THE FUTURE		
To lift restrictions	Return of Capacity			
Target Demand	28 kilolitres/day	25 kilolitres/day	18 kilolitres/day	
<b>FLINTON</b>				
To impose restrictions	Loss of Capacity	NOT APPLICABLE UNLESS BORE YIELD BECOMES PARTIALLY DEPLETED IN THE FUTURE		Off stream storage has high reliability. Conservation and emergency levels would be needed if capacity or reliability is threatened.
To lift restrictions	Return of Capacity			
Target Demand	5800 litres/day	5000 litres/day	3600 litres/day	
<b>Restrictions can be imposed at any time when there is a reduction in treatment plant capacity or a loss in capacity of any water supply facility</b>				