Western Downs waterwise

WESTERN DOWNS REGIONAL COUNCIL

Water Conservation Management Plan (WCMP)

The aim of the Water Conservation Management Plan is to ensure that Non Residential Users have in place water efficient practices and that no more than optimum water is used to maintain facilities. Basic requirements are that an assessment is made of optimum water use required and that ongoing monitoring and water readings are undertaken to ensure optimum use is maintained.

Water Conservation Management Plan (WCMP)

Western Downs Regional Council is committed to water conservation and as such is asking all non-residential water users to conserve their water usage to help sustain supplies.

It is requested that all businesses and community organisations (CO's) improve water efficiency and conserve water consumption without jeopardising economic production and employment.

If available please make use of alternative water sources and recycle water if viable.

To assist businesses and CO's with monitoring water usage patterns, identifying possible water savings and implementing water saving actions Council has developed a Water Conservation Plan.

A Water Conservation Plan is designed to ensure Non-Residential Users are already following industry best practice in water efficiency or alternatively demonstrate how the business is planning on becoming more water efficient.

Under Councils Drought Management Plan particular users are required to submit a Water Conservation Plan to continue using town water supplies during times of restrictions.

Through the use of the Water Conservation Management Plan, Council and your business can help reduce the demand placed on water supplies and encourage water efficient best practises for your business; therefore offering a fiscal benefit to your business. Thank you for taking the time to complete your plan.

Once completed please email a copy to utilities@wdrc.qld.gov.au or mail to Western Downs Regional Council, PO Box 551, Dalby Q 4405.

If you require any assistance in completing this plan please contact Councils Utilities Department, on (07) 4669 9000.

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CHECKLIST

Complete the Checklist to ensure all REQUIRED modules have been completed

Modules	Module Description	Module Requirement	Completed
Module 1	Organisation Details	Required	
2	Water Sources	Required	
3	Organisation Description	Required	
4	Organisation Operational Data	Required	
5	Internal Water Use	Required if the organisation has a structure with water fixtures	
6	External Water Use	Required if the organisation has grounds/ovals/ landscaping that are maintained by the use of water	
7	Requested Watering Times	Required if the organisation has grounds/ovals/ landscaping that are maintained by the use of water	
8	Water Use Monitoring Program	Required for grounds using in excess of 500kL per year	
9	Declaration	Required	
10	WDRC Office Use Only		

Module 1: Organisational Detail ***Required***			
Organisation Name:			
Address of Premises:			
Postal Address:			
Phone:		Mobile:	
Fax:		Email:	
Contact Person Name:			
Position:			
Phone:		Mobile:	
Fax:		Email:	
Do you have a Water Efficiency Management Plan (WEMP) in place?		☐ Yes	☐ No
Has a Water Audit previously been carried out for your organisation?		☐ Yes	☐ No
If yes, by whom?			
When			
Module 2: Water Source ***Required***			
Does your organization use a WDRC water supply?		☐ Yes	☐ No
Does your organization use an alternative water source?		☐ Yes	☐ No
Total consumption from alternative sources during last annual period: *Provide an estimate if not metered*			
Rainwater:	kilolitres		
Bore water:	kilolitres		
Stormwater:	kilolitres		
Dam:	kilolitres		
River / stream:	kilolitres		
Recycled water:	kilolitres		
Other:	kilolitres		
Is water use recorded by any method?		☐ Yes Method:	
		☐ No	

Module 3: Organisation Description ***Required****	
Central Activity Description:	
What is water mainly used for:	
Module 4: Organisation Operational Data ***Required****	
Number of full-time equivalent staff:	
Number of patrons/ members/users:	
Hours of operation per day: hours/day	
Days of operation per year:	
Season of operation: *Example: Summer, Winter, All year*	

Module 5: Internal Water Use ***Required if the organisation has a structure with water fixtures***		
Are toilet facilities available?	☐ Yes	☐ No
Are all toilets installed dual flush units?	☐ Yes	☐ No
If no, contact WRDC Utilities p:4669 9000 for consideration of Dual Flush Toilet Rebate.		
Please indicate the type and number of urinal/s installed.	☐ Manual *Number:*	☐ Sensor *Number:*
	☐ Cyclic (fill & dump) *Number:*	☐ Waterless *Number:*
Do all applicable taps (hand basin, sinks) have flow restrictors installed?	☐ Yes	☐ No
Flow rate can be measured by turning on the tap to the maximum flow rate and capturing the water in a bucket for 1 min. The volume of water captured over the minute will indicate the flow rate. Example 9L/min	*If yes, please note the flow rate in L/min:*	
Are shower facilities available?	☐ Yes	☐ No
Are all showerheads - water efficient (3 star WELS - Maximum flow rate of 9L/min)?	☐ Yes	☐ No
If no, contact WRDC Utilities p:4669 9000 for consideration of Shower Rose Rebate.		
Is evaporative cooling used?	☐ Yes	☐ No
Is your evaporative cooling system serviced regularily?	☐ Yes	☐ No
Date of last service:		

Module 6: External Water Use ***Required if the organisation has grounds/ovals/landscaping that are maintained through the use of water***		
Where does External Water Use occur?	☐ Grounds/Ovals	☐ Landscaping
	☐ Other - list:	
What landscape watering devices/systems are used?	☐ Sprinkler	☐ Dripper System
	☐ Other - list:	
Are landscape watering devices/systems water efficient?	☐ Yes	☐ No
	If yes, please note the flow rate in *Please see appendix for flow rate formula*	

Please indicate the method of watering used for oval irrigation.
If Oval Irrigation System has been professionally designed, please attach details.
If not designed, please estimate optimum water use for specific needs or approximately 15mm/week. Complete details and confirm against actual meter readings.

Automated	Details:
Manual	Details:
Other	Details:

Module 7: Requested Watering Days/Times ***Required if the organisation has grounds/ovals/landscaping that are maintained by the use of water***

The hours indicated are the maximum hours allowed per day and should be used as a guide only. In periods of high rainfall or off season times, consider the amount of water required and use only what is required to maintain grounds or best practice methods.

Please note watering time will not be granted during the six hottest hours of the day (10am - 4pm) nor on Monday.
The watering requirements for Levels One - Four will be consistant.
The water requirements for Level Five will require substantial reduction.

Level	Hours	Request Day/s	Time	Water Usage (volume in kilolitres)
SUSTAINABLE Level One Level Two Level Three Level Four				
EMERGENCY Level Five				
EXTREME Level Six	Not	Not	Not	Not

Module 8: Water Use Monitoring Program ***Required for grounds using in excess of 500kL per year****	
*A water use monitoring program will be required for grounds using in excess of **500kL per year**. The program will be required to be submitted to Council annually.*	
Step One: How much water is required to maintain grounds/ovals/landscaping?	kilolitres
Step Two: How much water is being applied to maintain grounds/ovals/ landscaping? (Assess through meter readings)	kilolitres
Step Three: Is adjustment required?	☐ Yes *Amount:* kilolitres ☐ No

Step Four:
Monitoring record. At least twelve (12) readings required per year.

Date/Time	Meter Reading	Difference (kL)	Comments
Example *01/10/2010 - 8:00am*	*123456*		*Before grounds watered*
01/10/2010 - 10:00am	*123999*	*543*	*Based on required amounts to maintain the oval, water use seems high, will adjust to reduce water use.*

Module 9: Declaration Details ***Required***			
Declaration I declare that the information given in this Water Conservation Plan is true and correct			
Print Name:			
Signature:			
Position:			
Date:			
Director Engineering Services			
Approved			
Alteration required		☐ Yes	☐ No
Date of Review:			
Module 10: WDRC Office Use ***Data to be provided by WDRC***			
Water Account Data			
Name of Account Holder:			
Account Number:			
Property Assessment Number:			
Water Meter Details	Meter Number:	Size:	Year:
	Meter Number:	Size:	Year:
Rateable Location		Lot: RP / SP:	
Summary Information			
Total town water consumption per annum:			
2007/08:	kilolitres/annum		
2008/09:	kilolitres/annum		
2009/10:	kilolitres/annum		

APPENDIX

Definitions

Best Practice	Can be defined as the use of technology or practices to minimise the use of water, resulting in a reduction in overall water use from previous devices, appliances, fixtures or practices. An example of best practice is where urinals, taps, showerheads and trigger sprays are made water-efficient by fitting water flow controls on individual fittings or the whole system.
Business	A person, partnership or corporation engaged in commerce, manufacturing or a service.
Community Organisation (CO)	An entity that is not defined as a business, but uses water for non-residential purposes. This can include (but not be limited to) schools, active playing fields and swimming pools.
Flow restrictors	Slow the flow of the water through existing taps without the need to change the tap type.
Kilolitre (kL)	Measure of water consumption. 1kL = 1,000 litres
Megalitre (ML)	Measure of water consumption. 1ML = 1,000,000 litres = 1, 000 kL
Water Audit	A service provided that identifies water waste and leaks and offers ways to conserve water.
WELS	Water Efficiency Labelling and Standards Scheme: (as per AS/NZS 6400:2005) 6-star rating system used to highlight the water use efficiency of appliances or devices.

Water meter test:

1. Read your water meter.
2. Making sure no other water is being used on the premises, run your irrigation system for five minutes using a timer.
3. Read your meter again and subtract the first reading from the second reading to find out the total number of litres used by your irrigation system in five minutes.
4. Divide this number by five and then divide this number again by the total number of emitters you have connected to your system. This is the average output of your emitters in litres per minutes.

Example: Litres used by system in 5 minutes = 200 litres

$$\frac{200 \text{ litres}}{5 \text{ min}} = 40 \text{ litres/minutes}$$

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