

**City of Greater Geraldton
Draft Water Planning & Management Strategy
Schedule of Submissions**

Submission No. & Date Received	Submitter & Organisation (if applicable)	Relevant Section (if applicable)	Comment	Incorporated into Strategy?
1 (05/11/10)	Private submitter	n/a	Would like to see rainwater tanks installed in households to alleviate the pressure on the scheme system. Also Council should access grants to develop a demonstration site to educate the community on water conservation etc.	Not incorporated
2 (11/11/10)	Private submitter	n/a	<p>Overall, the document is heading in the right direction, with some good strategies, such as increasing reuse to 100% and not increasing annual drinking water allocations in line with GHD.</p> <p>The Strategy appears to focus largely on new developments, rather than existing residential premises. Given that the bulk of the population will be living in existing residential premises, there needs to be a concerted effort to those residential and commercial properties are brought up to standard.</p>	Not incorporated
3 (11/11/10)	Private submitter	Section 7.1.1.8	This strategy is actually an aim and doesn't make it clear how the city will meet a target of 100kL/person/year. I would like to see mention of behaviour change strategies that are more than education, because we know that education has very minimal bang for the buck. Things such as policy (eg. Banning sprinklers) and infrastructure support (eg. interest-free loan schemes for rainwater tanks; subsidized / free native plants and mulch; subsidized one-off plumbing services to repair leaks / dripping taps etc. etc.) are much more effective at facilitating behaviour change.	Not incorporated
4 (23/11/10)	Private submitter	n/a	<p>The focus should be on looking at how the region can source water from other locations or by other means rather than cutting down on demand and relying on our current supply. I feel that there is a lot of water out there, it just needs to be investigated. Ideas such as piping water down from up north should also be considered. The region is growing and the future water needs must be addressed now to ensure that there will be an adequate supply in the future.</p> <p>Water Corporation has been asking me to cut down on my current water use – I feel like I have been singled out and just want to maintain my garden.</p>	Not incorporated
5 (26/11/10)	Shire of Chapman Valley	Section 4.3	<p>Amend as follows: "Geraldton North WWTP (Glenfield Beach) is an oxidation pond type plant, with disposal of effluent achieved via evaporation and infiltration to groundwater. The ponds have recently been duplicated in a plant upgrade. The previous plant capacity was 400 kL per day and the current capacity is approximately 850 kL per day. The current inflow is approximately 500 kL per day. In the future the Water Corporation is expected to come under increasing pressure from developers to relocate Geraldton North WWTP. Whilst a new site is indicated in the Greater Geraldton Structure Plan (WAPC 1999) for a WWTP in the Oakajee</p>	Incorporated

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			industrial area north of the Buller River, no timeframe has been set for any future relocation of this plant to the new site. Should such relocation occur in the future, funding arrangements may involve a combination of private sector and public (Federal, State, Local) sector contribution to meet the significant relocation costs."	
6 (26/11/10)	Water Corporation	Section 4.1	The breakdown of connections listed in this section is representative only of the Geraldton town area and excludes areas which form part of the GWRS including Narngulu, Cape Burney, Walkaway and rural residential areas. This needs to be made clear as the total number of services within the scheme could be misinterpreted.	Incorporated
7 (26/11/10)	Water Corporation	Figure 17	The 7GL figure used in the diagram refers only to consumption within the Geraldton town area and excludes Narngulu, Walkaway, Cape Burney and water supplied to Mullewa, Northampton and Dongara. Total water used per year from Allanooka is approximately 11GL, not 7GL as this refers to the Geraldton town area only. The use of the 7GL figure within this diagram as 'current use' from Allanooka without further clarification of the area it refers to is inaccurate and could lead to confusion on how much water is currently used within the scheme and how much is available from the borefield.	Incorporated
8 (26/11/10)	Water Corporation	Section 5.3, Table 5	Table lists Annual dry days as 60.1 - this seems extremely low and more likely to relate to annual wet days?	Incorporated
9 (26/11/10)	Water Corporation	Section 7.1.3	Will there be any clarification on how developments will aim to achieve a water consumption target of less than 100kL per person per year?	Not Incorporated
10 (26/11/10)	Water Corporation	Section 7.4.1	Please clarify how the lack of clarity exists regarding the opportunities and approvals required for development of water reuse options.	Incorporated
11 (26/11/10)	Water Corporation	Section 7.5.1	'Much of the existing rural-residential areas are not supplied with scheme water' - Please clarify which areas are considered in this group as a number of rural residential areas within the City are serviced by the Water Corporation.	Incorporated
12 (26/11/10)	Water Corporation	Section 7.6.3	The section titled Opportunities for improved water management outcomes at Walkaway states there is a 'lack of a reticulated water supply'. Please clarify this statement as there are 113 serviced connections in Walkaway including 82 residential services. Future development in and adjacent to the townsite can be accommodated and properties serviced through an extension of the existing Allanooka supply main.	Incorporated
13 (06/12/10)	Department of Water	Section 2.1	Replace reference to the <i>Town Planning and Development Act 1928</i> and the <i>Western Australian Planning Commission Act 1985</i> with the <i>Planning and Development Act 2005</i> .	Incorporated

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14 (06/12/10)	Department of Water	Section 4.2	Groundwater Use and Management 'Approximately 0.606GL of additional groundwater could be gained each year if all stormwater within the City boundary is infiltrated. This is equivalent to the irrigation demands of an additional 47ha at 1,305mm/year.' Is this the amount of additional stormwater that can be potentially infiltrated or the amount of groundwater that can be potentially extracted? The text should be amended to clarify this point.	Incorporated
15 (06/12/10)	Department of Water	Section 6.2.1	The waterwise community toolkit is now available on the Department of Water website. The text should be amended to reflect this.	Incorporated
16 (06/12/10)	Department of Water	Section 7.1	Using rainwater tanks to reduce household water consumption 'A 2.5 to 3kL tank has been found to provide optimum cost-benefits for an average residence resulting in a total scheme water saving of around 20%. This size tank can typically be fully installed from approximately \$6000 in plastic and up to \$8000 in steel. Marsden Jacobs (2007) found that these factors would result in a levelised cost ranging between \$3 and \$7kL' Is Marsden Jacobs the reference for the whole section above or just the last sentence? 2.5-4kL optimum size seems low especially when household water use is so high (400kL/year). This point should be clarified in the report. The reference page should be amended to include the Marsden Jacobs (2007).	Incorporated (by removal from document)
17 (06/12/10)	Department of Water	Section 7.1.4	Figure 21 Decision process for water sensitive design strategies... Reference to "constructed lakes" should be removed from the "strategies" box. Constructed lakes are not encouraged due to potential for high evaporation losses and maintenance costs.	Incorporated
18 (06/12/10)	Department of Water	Section 7.2.2	Strategies (Existing residential, industrial and town centre areas). The City may find it would be useful to compare the rainwater tank cost-benefit analysis identified in point 2 page 70 with a similar analysis on third pipe schemes as it has been identified throughout the report that this may be more cost effective and appropriate due to low rainfall levels.	Not Incorporated