

## Report card for the Kunderang Brook Water Source

Water source context		River flows	
Area	36,155 hectares (97% forested)	<b>Low flow index*</b> (for November)	80th%ile = 20 ML/day (Source: Stressed Rivers Assessment Report 1999)
Average annual rainfall	1,316 mm	<b>Flow records</b>	Low flow index calculated from nearest suitable gauging station (outside of water source)
Inflowing water source	None	<b>Stream type</b>	Gaining
Receiving water source	Macleay Gorges	* 80 per cent of the time average daily flow exceeds 20 ML/day and this represents low flows.	

Background Information		
Water Source Attributes	Rating	Justification
Relative Instream Value (within catchment)	<b>MEDIUM</b>	<ul style="list-style-type: none"> <li>- 6 threatened frog species.</li> <li>- 1 threatened wet flora species.</li> <li>- significant area of National Park.</li> </ul>
Hydrologic Stress	<b>LOW</b>	<ul style="list-style-type: none"> <li>- within water source = low (no licences).</li> </ul>
Relative Economic Significance of Irrigation (within catchment)	<b>LOW</b>	<ul style="list-style-type: none"> <li>- no irrigation.</li> </ul>
Risk to Instream Value (from extraction)	<b>LOW</b>	<ul style="list-style-type: none"> <li>- instream values are at low risk of being impacted by extractions within the water source.</li> </ul>
Licensed water entitlement		
Total surface water entitlement	Nil.	
Licensed purpose	N/A.	
Proportion of extraction management unit	N/A.	
These figures and estimates were made in September 2012.		
Existing access arrangements during dry conditions		
Pumping restrictions	No existing access arrangements.	
Cease to pump	No existing cease to pump.	
Reference point	Nil.	
Water user association	None.	

## Recommendations

Draft access rules for surface waters	
<b>Cease to pump</b>	<p>Pumping is not permitted from natural pools when the water level in the pool is lower than its full capacity.</p> <p><b>Note:</b> 'Full capacity' can be approximated by the pool water level at the point where there is no visible flow into and out of that pool.</p> <p><b>Note:</b> Natural pools include in-river pools found within the channels of rivers and creeks and off-river pools located on flood runners, floodplains and effluents e.g. lakes, lagoons and billabongs.</p> <p><b>Note:</b> For the minority of pump sites not within a natural pool, these licences will be required to cease to pump when there is no visible flow at that pump site.</p>
<b>Reference point</b>	Individual natural pool.
<p><b>Note:</b> Existing <i>Water Act 1912</i> licence conditions that are more stringent than these access rules will be carried forward.</p> <p><b>Note:</b> These access rules do not apply to:</p> <ul style="list-style-type: none"> <li>- Local water utility access licences</li> <li>- Town water supply access licences</li> <li>- Stock and domestic licences for the first three years of the plan (provided that extraction for stock purposes does not exceed 14 litres per hectare of grazeable area per day)</li> <li>- Water taken from existing dams. Any existing licence conditions associated with a dam will be carried over when the licence is converted under the <i>Water Management Act 2000</i>.</li> </ul>	
Draft trading rules	
<b>INTO water source</b>	Not permitted.
<b>WITHIN water source</b>	Permitted, subject to assessment.
Draft rules for granting access licences	
<b>In-river dams</b>	<p>Permitted, subject to assessment.</p> <p><b>Note:</b> Dams require a licence if they are located on a permanent (spring fed) first or second order stream, a third order (or greater) stream, or if they exceed the maximum harvestable right dam capacity for the property.</p>
<b>Aboriginal community development</b>	Not permitted due to the absence of a gauge.
<b>Conversion to high flows</b>	Not permitted due to the absence of a gauge.
<b>Conversion to alluvial aquifer access licence</b>	N/A.

## Key factors for decisions

- Medium instream value, low hydrologic stress, low risk to instream value and low economic dependence.
- It is recommended the most basic access rule due to no gauging station or suitable reference point other than the pump site in the water source and no licensed extraction.

## Public exhibition

Feedback is particularly sought on the suitability of the proposed access and trading rules.

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