

**TENTERFIELD WATER SUPPLY – DROUGHT AUGMENTATION WORKS  
STATUS REPORT – 10 JANUARY 2020**

No	Task	Comments
1	Emergency Drought Funding Application to Minister	<p>Following an application for funding to the Minister for Water, an amount of \$373,000 has been approved, which is 75% of the funding for the first stage of the project. Funding for stage 2 to a maximum total of \$4,000,000 has been approved for a program of works to improve the water security for Tenterfield. The works include sourcing groundwater and appropriate water treatment; planning and infrastructure works. The new funding brings the total state government commitment to \$4,373,000 (exc. GST) and total project budget to \$4,497,333 (exc. GST).</p> <p>Council is preparing a Project Plan/Business Case to aid council with the rapid delivery of the project. The Project Plan/Business Case will be submitted to the relevant NSW Department for funding sign-off once the complete scope of the project has been finalised.</p> <p>Given the urgency of this project, all aspects of the work have been fast tracked. This explains why the delivery work has commenced before formal funding sign-off has occurred.</p>
2	Water Search and Test Bores	<p>The objective is to establish more than one reliable source of groundwater in different (separated) geological zones to ensure long term water security for the Town of Tenterfield.</p> <p>Following extensive groundwater search and test drilling, three separate water bearing zones have been identified. These zones are located in the vicinity of:</p> <ol style="list-style-type: none"> <li>1. Tenterfield Creek</li> <li>2. Tenterfield Archery Club; and</li> <li>3. Nolans Gully</li> </ol> <p>A total number of eight bores have been identified that will deliver a combined yield of 14 L/second which is adequate to support the town should the Tenterfield Creek dam run dry.</p>
3	Infrastructure	<p><u>Bores</u> – Consultant Geo 9 P/L and subcontract Hydro-geologist Zoic Environmental P/L.</p> <p><u>Pumps</u> – Procurement arranged as hydraulic requirements for each bore site is determined.</p> <p><u>Electricals/SCADA etc.</u> – Quotations have been invited from selected providers</p> <p><u>Civils</u> –Tenterfield Shire Council. New rising mains are being constructed connecting the bores at Transport Museum and Archery Club / East St to the Water Treatment Plant. The construction work has commenced and will continue over the next two to three months.</p>

		<p><u>Bore water treatment</u> – MJM Environmental have submitted their Water Treatment Options Report for the emergency bore field. Quotations for the temporary hire of a Reverse Osmosis (RO) water treatment unit have been assessed and a suitable unit has now been delivered to the Water Treatment Plant site. It is expected that this equipment will be installed and commissioned by the end of January, 2020. This will allow Council to fully utilize the ground water sources that have been found delivering an improved water quality for the Tenterfield community</p>
5	Drilling and Production Bore Establishment	<p><u>Bores</u> – Water Resources Drilling P/L  <u>Rising Main</u> Design &amp; Construct – Tenterfield Shire Council  <u>Electrical &amp; SCADA</u> etc.– Quotations have been invited from selected providers</p>
6	Dam Water Management	<p><u>De-stratification / Aeration System</u> - Acqua &amp; Co aerators installed. Additional subsurface aeration will be installed by Council to aid with aeration and mixing of the lower water in the dam.  <u>Remote dam water depth and quality measurement</u> – Procurement in progress.</p>
7	Project Management	<p>Risk management and project insurances managed by TSC.  Project management by Local Government Appointments consultant supported by TSC staff.  Strategic project support is being provided by Clearwater Australia.</p>
8	Water Quality Monitoring	<p>Managed by TSC with compliance overview by NSW Department of Health  Technical design inputs by MJM Environmental P/L.</p>