



Dubbo Regional Council & Water NSW Joint Community Briefing

Tuesday 10 March 2020

Welcome

Dubbo Regional Council and Water NSW would like to acknowledge that we gather today on Wiradjuri country and pay our respects to elders past present and of the future.

Mayor of the Dubbo Region Ben Shields

Chief Executive Officer, Dubbo Regional Council, Michael McMahon

Director of Infrastructure, Dubbo Regional Council, Julian Geddes

Water for the Future consultant
Chris Devitt

Adrian Langdon, WaterNSW



Overview



- Dubbo Regional Council introduced level 2 water restrictions across the Dubbo Local Government Area on 1 June 2019
- Dubbo Regional Council moved to Level 3 water restrictions on 1 October 2019 closely followed by level 4 on 1 November 2020.
- Level 4 water restrictions were reviewed and more appropriate activities for the community were endorsed by Council which included outdoor watering of up to 30mins twice a week.
- Dubbo Regional Council was allocated \$30million from the NSW Government in June 2019 to secure the regions water supply.

10,000
9,000
8,000
7,000
6,000
5,000
4,000
3,000
2,000
1,000
0ML

Surface water allocation

Surface water use to date

Ground water allocation

Ground water use to date

Dubbo Regional Council's Water Allocations

Surface water allocation: 6960 ML

- As of Feb 2020 used 3061 ML

Groundwater allocation: 3850 ML

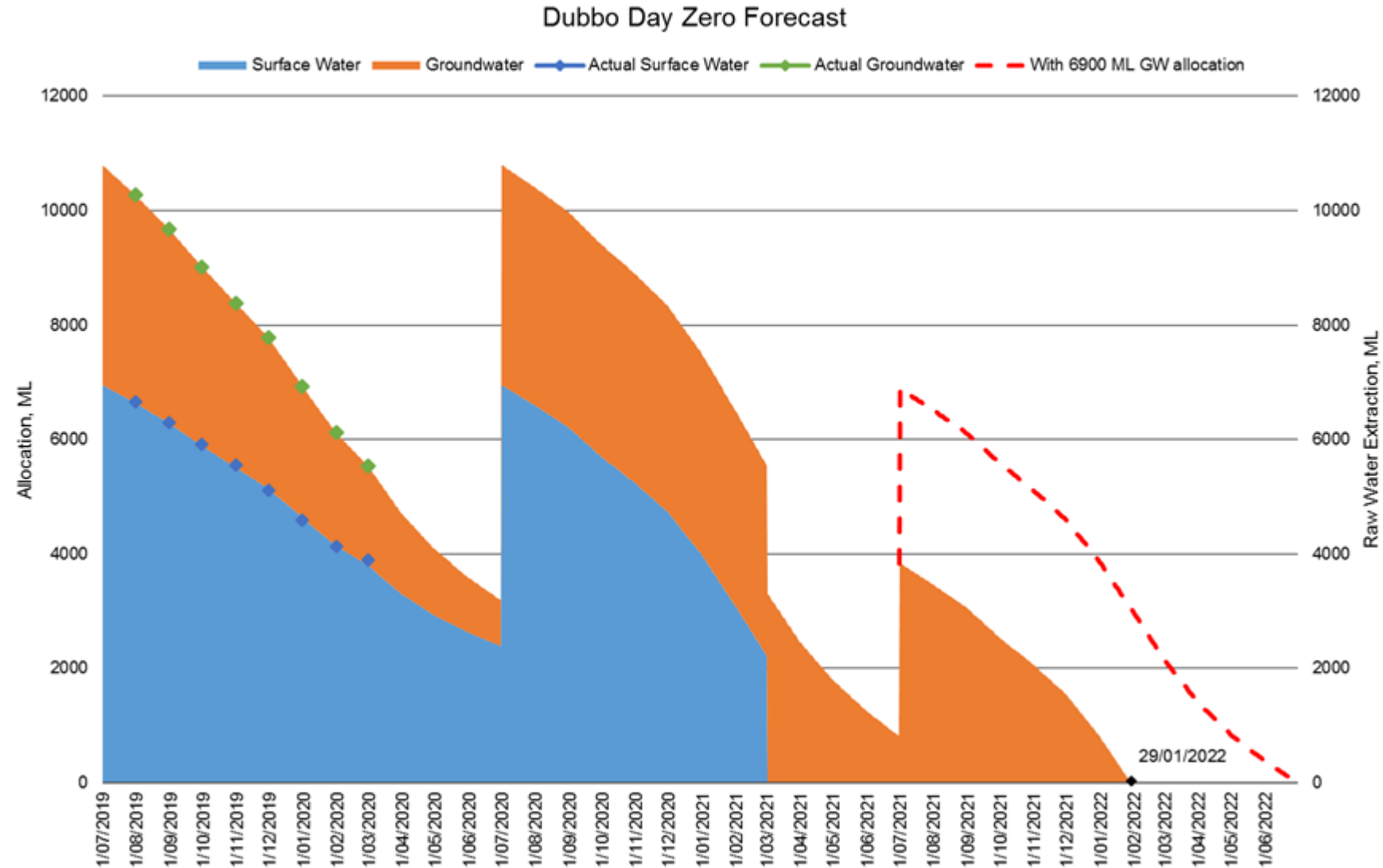
- As of Feb 2020 used 2206 ML

Total allocation remaining: 5543 ML

Water required to end of water year

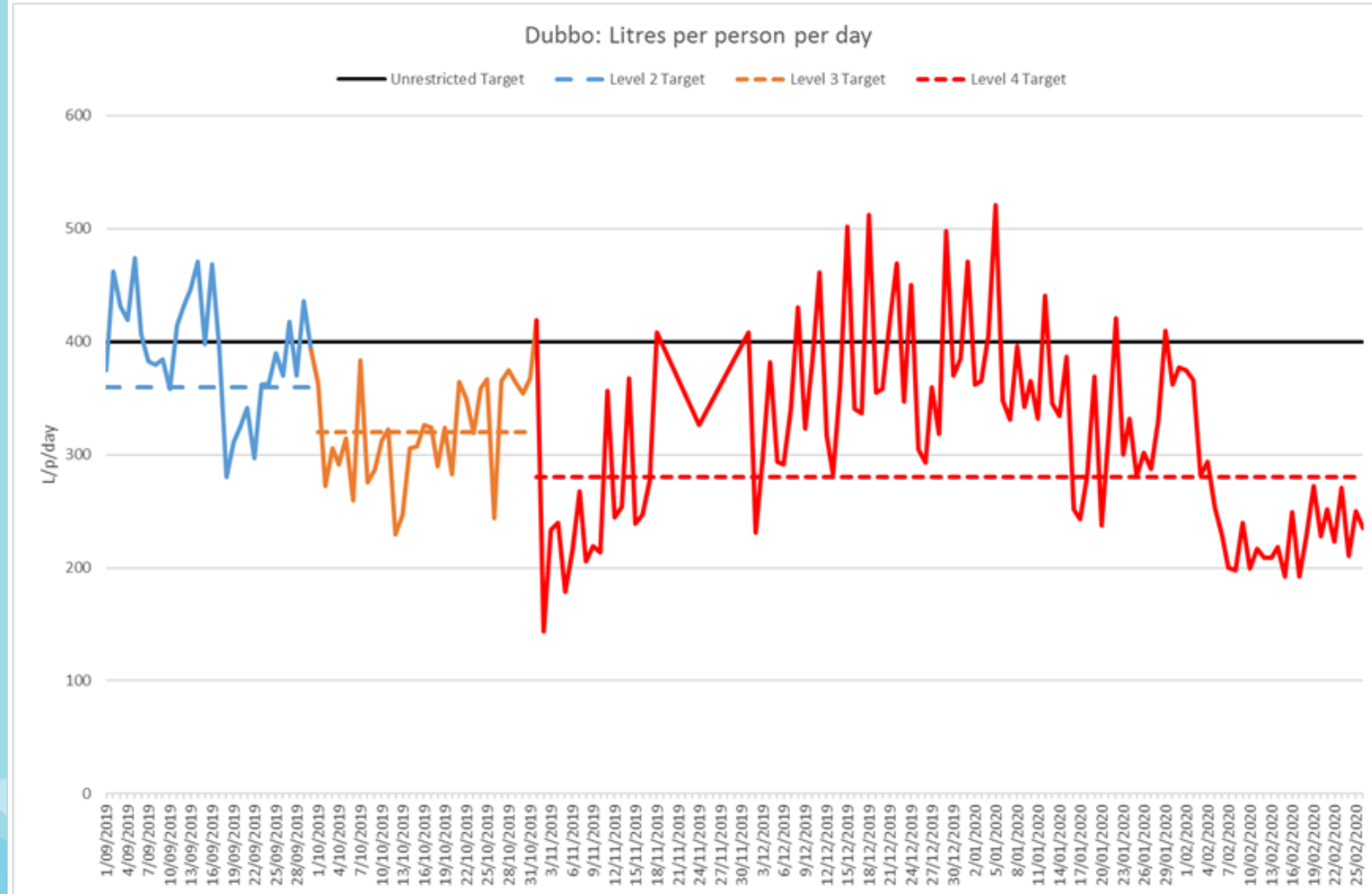
= 2634 ML

Cease to flow modelling as of Feb 2020



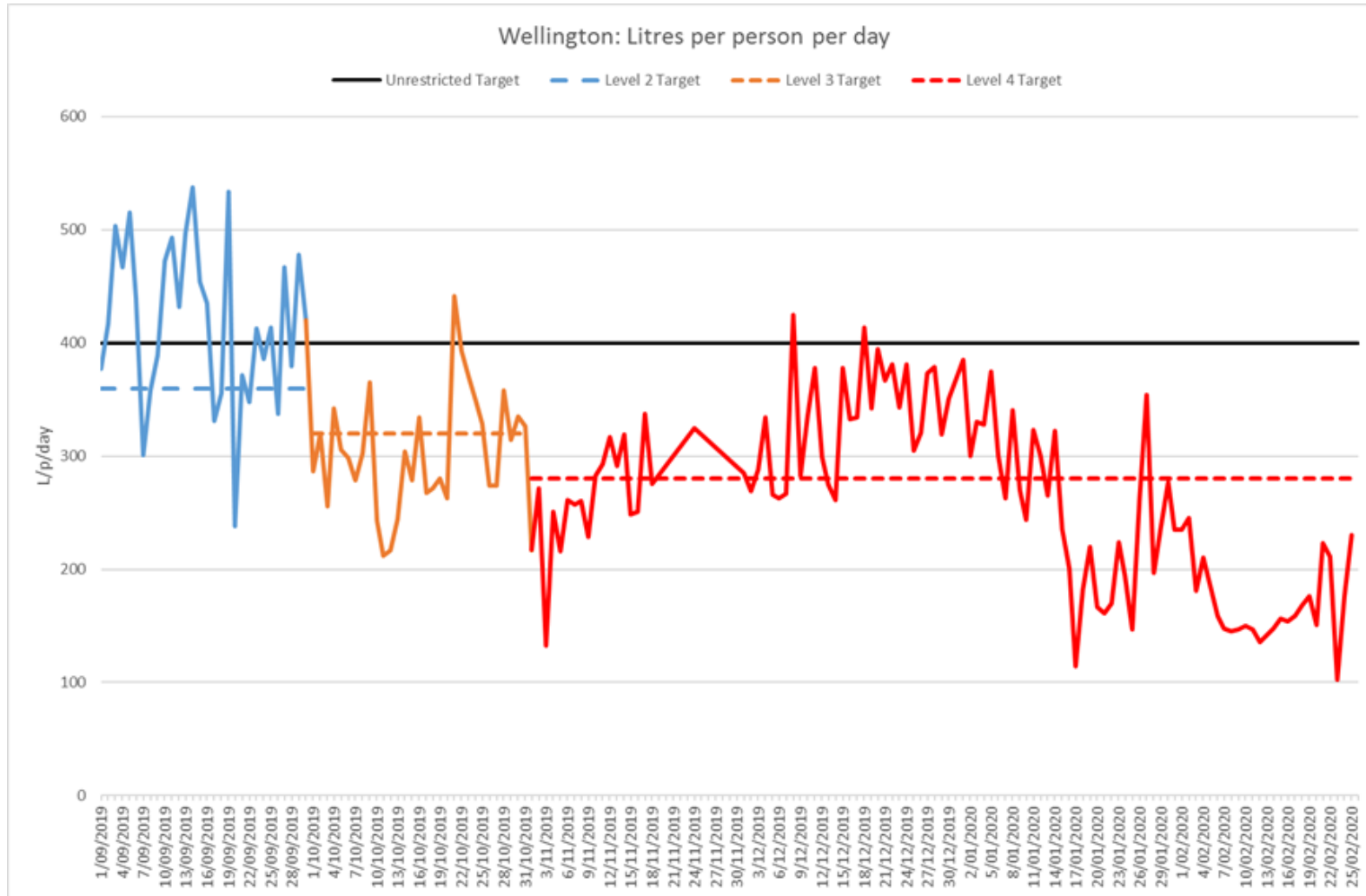


Community Demand - Dubbo



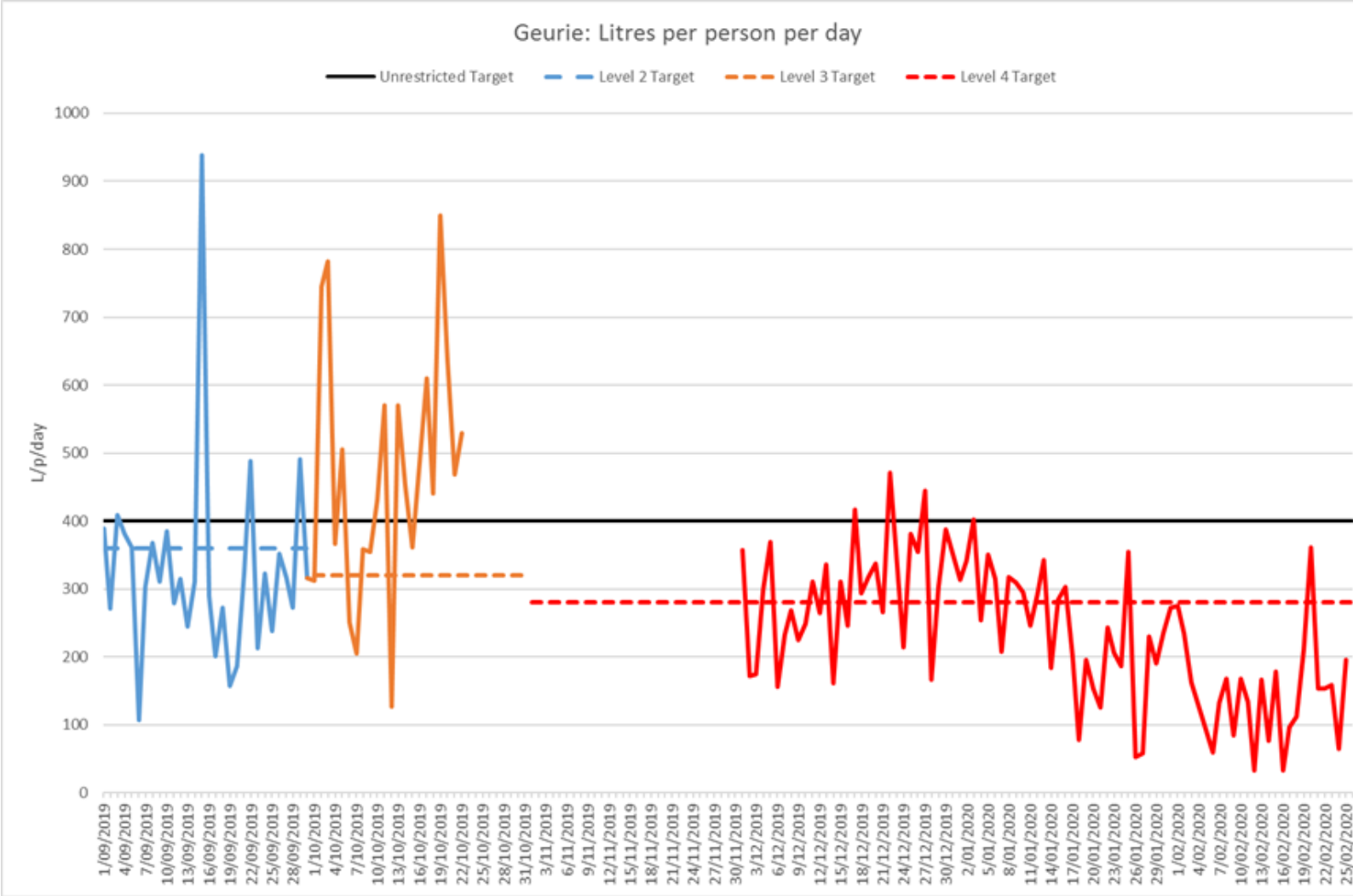


Community Demand - Wellington





Community Demand - Geurie



Current community water usage

DUBBO

234L

Per person per day



WELLINGTON

154L

Per person per day



GEURIE

125L

Per person per day



UNDER LEVEL 4 WATER RESTRICTIONS RESIDENTS HAVE A DAILY TARGET OF 280L PER PERSON PER DAY

The figures are calculated in accordance with the Integrated Water Cycle Management Plan methodology and data provided by the Australian Bureau of Statistics

Water for the Future

What's the plan?

Dubbo Regional Council has several key elements in progress to secure the regions water supply.

- Cross city pipeline, connecting existing recreational bores to Dubbo's John Gilbert water processing plant.
- Cross city pipeline will also transfer recycled water to identified stakeholders such as Taronga Western Plains Zoo.
- A new production bore installed in Geurie, with second bore proposed
- Identifying new bore sites in north Dubbo
- Improving existing bore infrastructure in Wellington
- Identifying water trading opportunities
- Commenced water carting to villages such as Euchareena

Cross City Pipeline

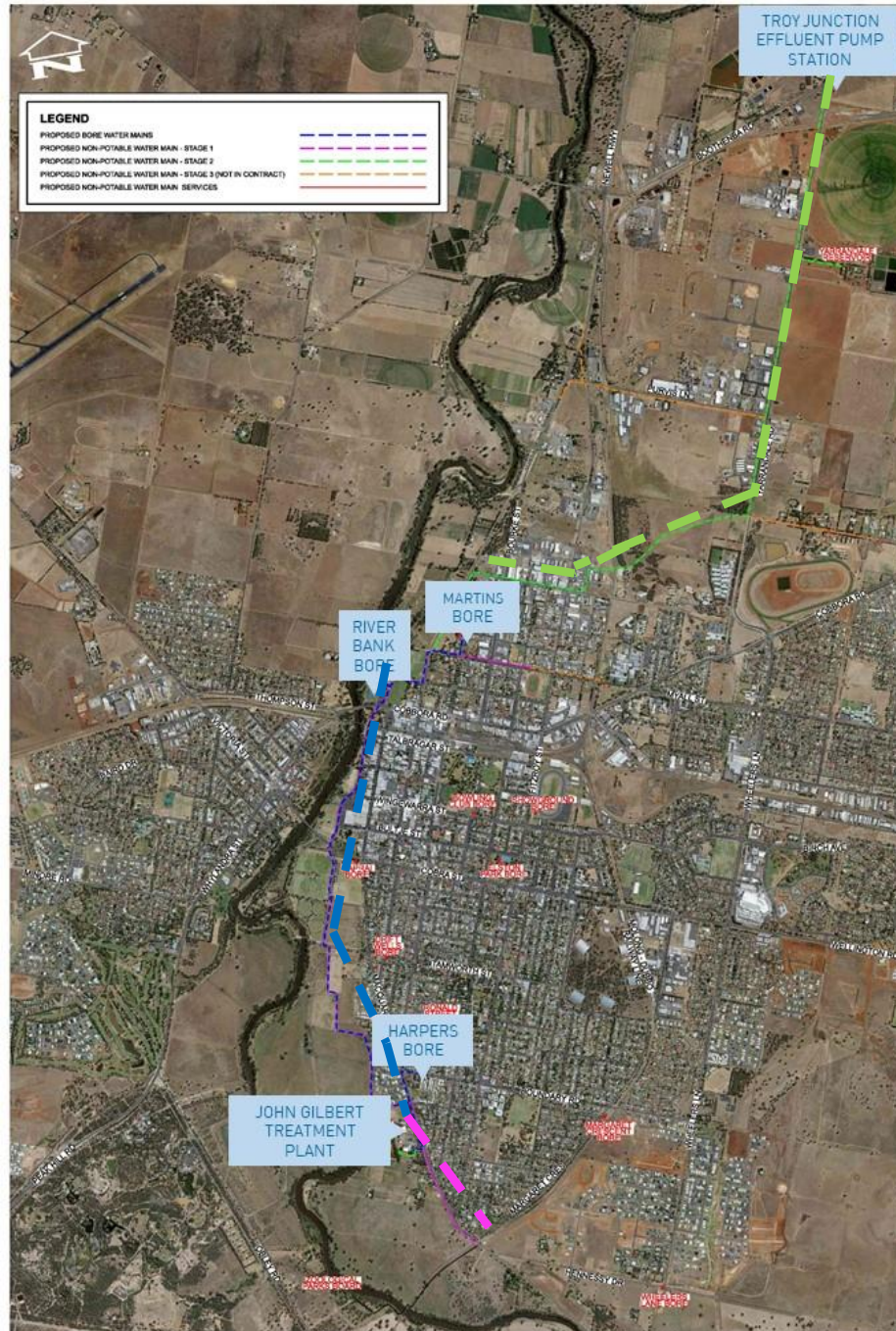


The primary purpose of cross pipeline is to convey additional ground water to the water treatment plan to increase supply.

Recycled water from the Dubbo Sewage Treatment Plant is also a key component of the project.

- Tender closed 5 March 2020
- 19 km of pipeline
- Council facilitating line to provide supply to Taronga Western Plains Zoo
- Construction expected to take approximately 4 months
- Both pipelines are designed to be scalable

Cross City Pipeline



Ground water Dubbo



- Dubbo has a total of 7 bores within the South Dubbo bore field typically contributing 30% to the towns potable water supply.
- The annual allocation from these bores is 3850 ML
- Focus on the deepest part of the paleo channel
- Enabling Council to connect recreation and new bores to the new pipeline aiming to yield 2800ML
- Future potential for further bores south of Dubbo

Ground water Wellington

- Drilling in the Montefiores area commence April 2020
- Working with driller to replace bore at Bicentennial Park
- Dubbo Regional Council modelling reticulation to transfer water into the system for treatment.



Ground water

Geurie

- Bore complete – yield 10 L/s, suitable for what is required
- Second bore to be installed for redundancy
- Dubbo Regional Council undertaking design and documentation of bore pump and rising main



Recycled water

What is it?

Treated effluent
Storm water harvesting
Backwash water

Why recycled water?

Replaces current ground water use
Opens opportunities for trading
Storm water provides additional water



Recycled Water Management Plan

Introduction of Smart Water Meters



- Dubbo Regional Council has a water meter renewal program to ensure quality of water metering across the Local Government Area
- This is a planned renewal program
- The choice to use Smart Water Meters is best practice for Councils in 2020

Dubbo Regional Council plans to install

- 17,700 residential water meters
- 2,300 non-residential smart water devices



Introduction of Smart Water Meters

The water meter renewal program will be fully funded from Dubbo Regional Council's water budget

Benefits of smart water meters include:

- ✓ Facilitation of early detection of leaks
- ✓ Enables customers to check their water usage via online portal or smart device
- ✓ Assist community to respond to times of water shortage by monitoring their own consumption
- ✓ Allows customers to develop strategies to reduce water usage
- ✓ Enables Council to respond more effectively to usage enquiries
- ✓ Reduces non revenue water by identifying losses

Smart Water Meters Success



Water Carting

A water carting plan was formally approved in late October 2019.

Dubbo Regional Council commenced free water carting to the village of Euchareena shortly after.

Since then Dubbo Regional Council has received 6 applications for free water and delivered accordingly. And have delivered 16 loads of water totalling 202,500 litres

Dubbo Regional Council has also partnered with Team Rubicon to provide approximately 6 million litres of water for their water carting assistance program across the region.



Dubbo Regional Council's Drought Management Plan

The existing Drought Management Plan is currently being reviewed

Key principles:

- ✓ Ensure human health needs are met
- ✓ Prioritise community and business needs
- ✓ Give certainty to business
- ✓ Deliverable actions to council
- ✓ Sustain liveability and a sense of place
- ✓ Increase data accuracy and efficiency

Due to be formally adopted by Council by June 2020

Thank you for joining the March 2020 Community water briefing, a partnership of Dubbo Regional Council and WaterNSW