

Completion Report

Homelands Housing and Infrastructure Program



NTWP00025 NT Wide – Jemelke – Bore and Water Works Upgrades

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Project Name	NT Wide – Jemelke – Bore and Water Works Upgrades	Contract No.	NTWP00025
Homeland	Jemelke	Community ID	824
Project Type	Water infrastructure	House #	N/A
Commencement Date	12 January 2026	Completion Date	21 January 2026

Project Summary

Include a brief summary of the deliverables on the project.

Issue: Insufficient Water Supply to Overhead Tank

Reporting Period: 12/01/2026 – 15/01/2026

1. Background

On 12 January 2026, we received a notification from the Homeland team regarding inadequate water supply at the Jemelke Homeland. Reports indicated that water from the bore was not reaching the overhead storage tank, impacting water availability to residents.

2. Works Undertaken

12/01/2026 – Initial Inspection

A technician attended site to assess the reported issue. The bore pump was found to be operational; however, water pressure was insufficient to supply the overhead tank.

Consultation with local residents indicated that the pipework supplying the overhead tank had become heavily calcified over several years, restricting flow. The affected section of pipework was dismantled and confirmed to be heavily calcified.

Following the inspection, the technician returned to Tennant Creek to organise materials and equipment for rectification works.

13/01/2026 – Pipework Replacement and Bypass Installation

A work crew returned to site with replacement pipework and a crane truck to access the overhead tank float valve. The calcified section of pipework feeding the overhead tank was replaced.

To ensure continuity of water supply during works, a bypass line was installed to supply water directly to the residence. The float valves were inspected, and the bypass was temporarily isolated to test supply to the overhead tank. While water levels increased, pressure remained insufficient to fully fill the tank.

Further investigation identified multiple punctures in the bore column layflat. Due to the bore being hard-wired, electrical disconnection was not possible at that time, limiting immediate repair options.

Additionally, damaged solar panel mounting brackets were identified, and available sunlight was insufficient to operate the pump at full capacity.

The bypass was reinstated to maintain water supply to residents, and the team returned to Tennant Creek.

14/01/2026 – Bore Column and Solar Investigation

The team returned to site with an electrician to allow safe electrical disconnection and further investigation of the system. The bore pump was disconnected, removed, and the damaged layflat was replaced. The system was reinstalled and pressurised, resulting in a noticeable improvement in water pressure.

Solar system testing confirmed that power output remained insufficient to operate the pump at the required capacity to fully supply the overhead tank. Two solar panels were identified as faulty. An

attempt was made to utilise panels from another bore on site; however, this was not feasible due to compatibility and reconnection requirements.

The original panels were reconnected, and the bypass line was reinstated to ensure continued water supply to residents. The team then returned to Tennant Creek.

15/01/2026 – Electrical Upgrades and System Improvements

An electrician and plumber returned to site to complete further rectification works. A lid was installed on the IO Grundfos controller, a generator was connected, and the solar module and arm tracker were replaced.

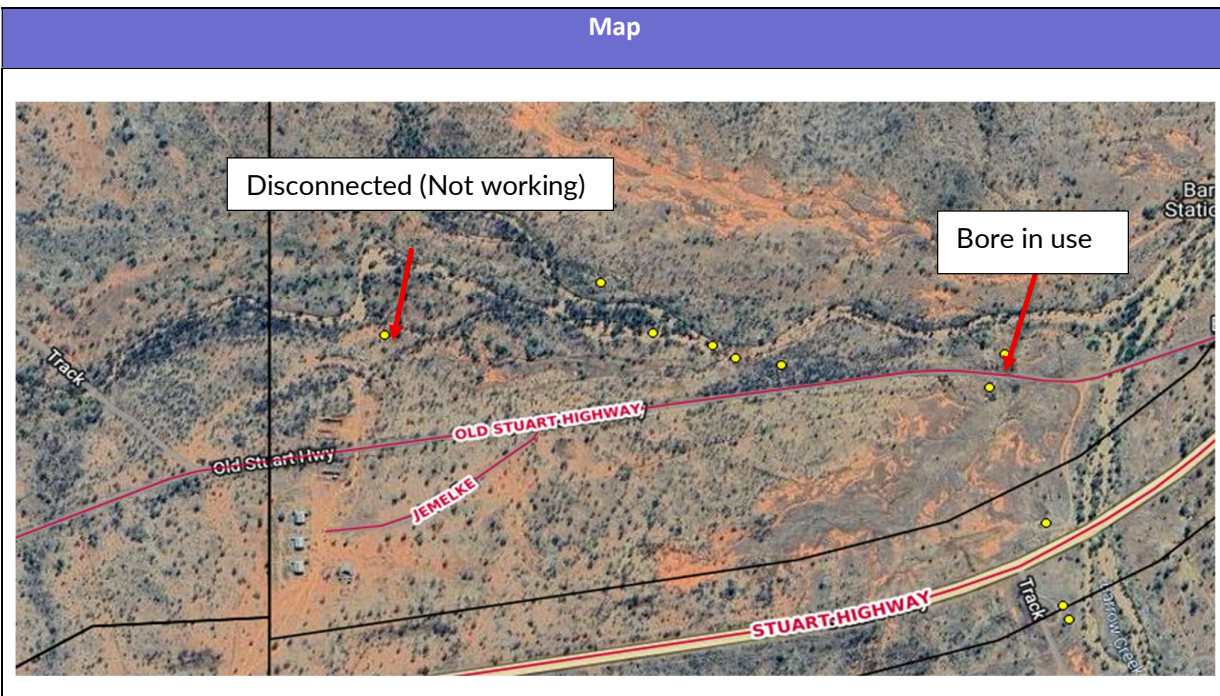
Further inspection of the existing bore installation identified a water line running across the road towards the pub. An isolation valve was installed on this line, and water supply to the overhead tank was successfully reinstated.

The operation of the system, including valves and the bypass arrangement, was explained to local residents to ensure understanding of the configuration and ongoing use.

Following completion of works, the team returned to Tennant Creek.

3. Current Status

- Bore pump operational
- Overhead tank receiving water
- Bypass system in place as contingency
- Solar components partially renewed
- Generator available as an alternative power source to ensure water supply continuity



Visual Progress

Pictures

Damaged tracker



Replaced



Replacement Solar tracker controller



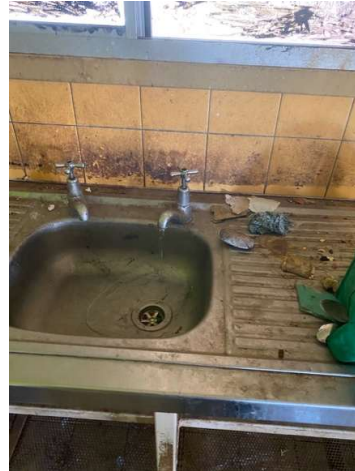
Bypass installation at overhead tank



Backup generator installed onsite



Water reinstated to over tank and house



Confirmation of water present and system working 16/01/2026



Approved Variations

Nil variations

Attachments

Plumbing and drainage works – Certificate of Compliance

Statement of Bore

Territory Water Solutions – Warranty Certificate