

Stanway-Halcombe Rural Water Scheme

Annual General Meeting 2016

Where were we



What did we know?

- We knew the Reservoir was empty in 2015 but did not know why
- At a high level we knew:
 - Land use had increased demand on the scheme
 - A number of users are getting more than their allocation due to tampering, maintenance issues and lack of planning
 - A number of users are not getting their allocation
 - The scheme wasn't performing
 - Financial reserves were in good shape



Reservoir - permission from H Winder, access via Awawa Road

What actions did we take?

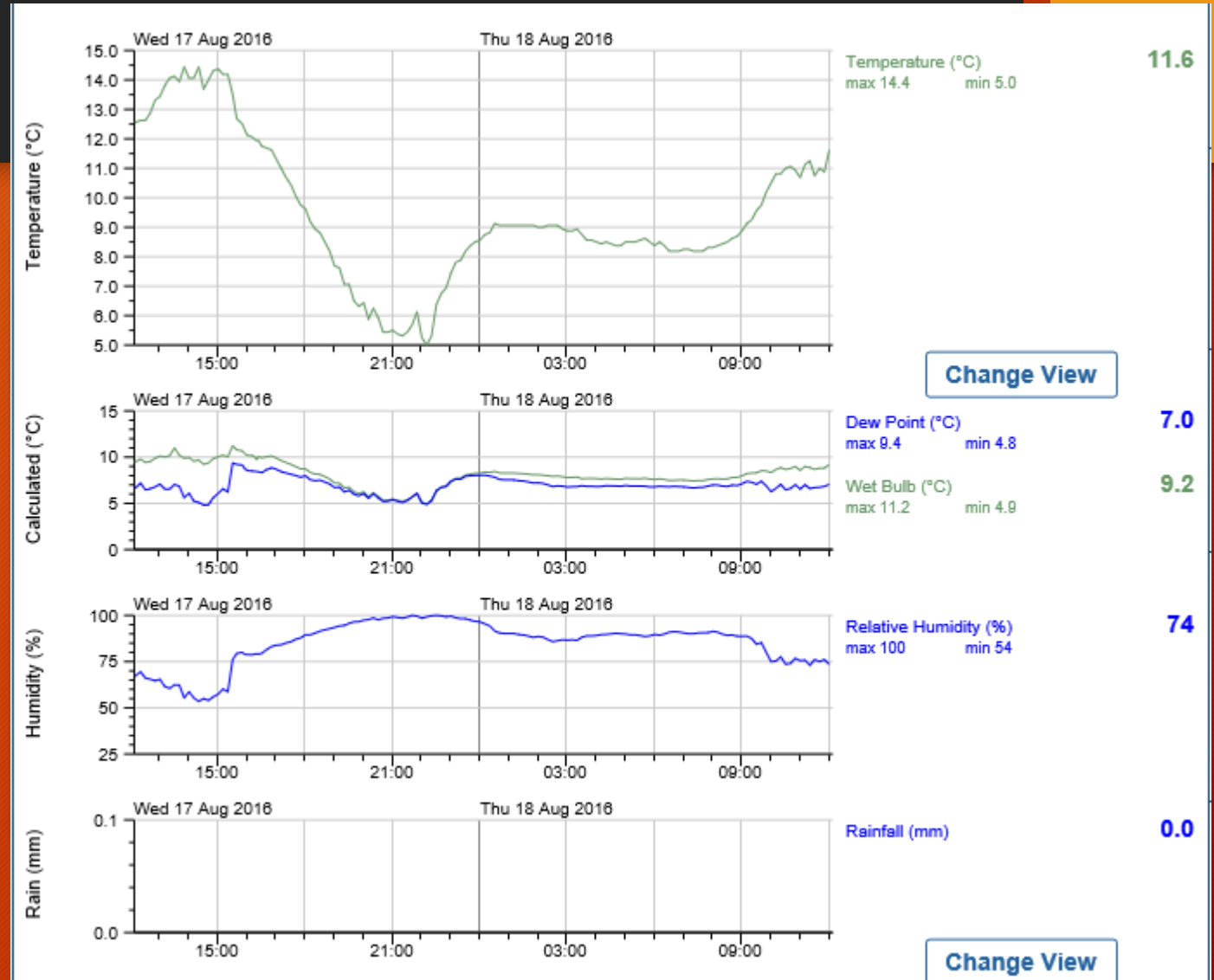
- A new committee was elected
- A new mandate was adopted
- Looked at existing scheme information
- Identified new technology for better monitoring
- Collected and analysed data:
 - Flow checks
 - Survey
 - Condition assessments
 - Local knowledge

What have we learnt?

- Not all consumers understand the rules
- Not all consumers have 24 hour storage
- We have enough consented source water at river intake
- There are hydraulic inconsistencies in the scheme
- At the peak of summer we only have 8 hours of storage capacity in the reservoir
- Current intake and pumping infrastructure is incapable of filling the reservoir during peak demand without triaging customers
- Potential withdraw of major users requiring additional units, affecting the viability of the scheme

What have we done?

- A restrictor replacement programme was implemented
- Renewed and increased capacity from intake to Pryces Line
- Installed equipment to provide better flow data
- Installed weather station and soil moisture/temperature monitoring
- Implemented Scada package to collect collate and alarm on flow
- We are identifying where flow is available to meet future demands
- Commissioned GPS survey of water scheme assets
- Implemented a scheduled maintenance programme
- Installed a high flow water hydrant to better service fire service needs
- Installed pipe work for flow meter calibration check (ie. Horizon compliance)



What's next?

- Renewing and increasing capacity from Pryces Line to Tokorangi Road
- Upgrade pump control and treatment at the intake and boost pump station
- Implement new connection for Awawa road contributors
- Selective reticulation renewals
- A review of Halcombe Village supply to meet Ministry of Health requirements
- Identify areas to improve scheme deliverables
- Risk review around water supply (quality and quantity)

Risks

- Council structure/personnel change
- Loss of focus and understanding by the Committee