



Managing the Canal & River Trust's Water Resources

Introducing the Canal & River Trust

The Canal & River Trust is a charity that cares for England and Wales' wonderful legacy of 200-year-old waterways, holding them in trust for the nation forever. The Trust is among the UK's biggest charities, with responsibility for 2,000 miles of canals, rivers, docks and reservoirs, along with museums, archives and the country's third largest collection of protected historic buildings. The Trust was launched in the summer of 2012, taking over responsibility from British Waterways and The Waterways Trust in England and Wales.

Water Management

The Water Management Team's vision is to support the Canal & River Trust by striving towards excellence in water management. We embrace the principles of efficiency, demand management and sustainability in our plan to meet the future demands for water.

Operational Water Management

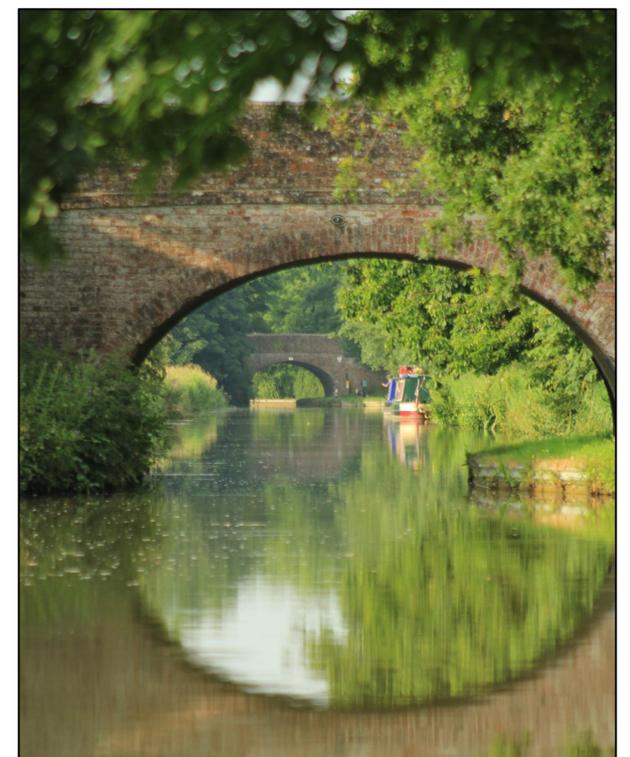
The Water Management Team review water resources for reservoirs, canals and rivers every week. A Water Budget is produced to advise the local Waterways regarding the efficient conjunctive use of water resources.



Strategic Water Management

The Water Management Team undertakes strategic assessments to understand the risks and pressures on canal water resources. Early in 2014, we will publish a Consultation on a Water Resources Strategy that will:

- define our overarching vision for how we will manage water resources across the network through to 2050;
- address future pressures on water supply and demand;
- support the wider charitable objects of the Trust, in particular to meet agreed levels of service.



SCADA Telemetry System (Supervisory Control And Data Acquisition)

SCADA is a primary tool in the joined-up management of water resources and flood risk. It consists national monitoring, control and data storage. GPRS 3G mobile communications allow data to be displayed in real-time and accessible via a GIS interface. Alarms are set up to call out to the mobile phones of on-call staff. There is mobile phone access for all staff; a smart phone app is under construction to increase usability.

SCADA monitors:
 400 water levels;
 canal and feeder flow at more than 90 locations
 125 lock counters measure how busy the network is;
 We receive more than 300 level and flow data time series from the Environment Agency on a daily basis under a data exchange agreement.



SCADA remotely controls:
 73 pumps (back pumps, river and groundwater);
 45 sluices and weirs.
Facts
 The Trust looks after more than 1,700 locks, each requires between 100,000 and 300,000 litres of water to fill for every use. CRT are responsible for 72 supply reservoirs