



Raw Water Quality Challenges: Sharing Knowledge & Ideas

Breakout Session

Joanne Burford
Catchment Manager
Welsh Water





Raw Water Quality Challenges: AMP7

- 💧 Pesticides
- 💧 Nutrients
- 💧 Taste & Odour
- 💧 Algae
- 💧 Bacteria
- 💧 Cryptosporidium
- 💧 Turbidity (Sediment)
- 💧 Other



What's Important To Us

- Meeting the requirements of our regulators
- Responding to existing high risks to water quality
- Identifying appropriate solutions
- Reducing raw water quality challenges through catchment management
- Building resilience & safeguarding drinking water supplies for future generations





Sharing Knowledge & Ideas

- 💧 We don't always have all of the answers!
- 💧 What's out there?
- 💧 What do you know that we may not?
- 💧 Tell us!



Can you
help us?

watersource@dwrcymru.com



Sharing Knowledge & Ideas

- Research
- Best practice
- Root cause investigations
- Instrumentation / kit
- Ways of working
- New initiatives
- Innovative approaches
- International developments
- Existing trials / pilots
- Other industry approaches
- Behavioural change insights



What's Out There?

Raw Water Challenge	What's Out There?
Pesticides	Substitutes – e.g. biological controls
Nutrients	Research on potential indicator / surrogate parameter – e.g turbidity
Taste & Odour	Sensors / early warning systems / reservoir management – e.g advances in equipment



What's Out There?

Raw Water Challenge	What's Out There?
Algae	International management techniques – e.g reservoir balls
Bacteriological	Behavioural research / social science / faster indicator methods
Cryptosporidium	Key findings from animal health projects / advances in methodology



What's Out There?

Raw Water Challenge	What's Out There?
Sedimentation	Stabilisation alternatives / sensors / early warning
Other	e.g Manganese: Reservoir management solutions



WaterSource

Facing the Future Together

#WaterSource19