

KEITH CADEE
WATER CORPORATION



CONTEXT

Supplying safe drinking water is the most important job we do.



CONTEXT

Mundaring supplies



- 15,000 people in Mundaring, Stoneville, Mt Helena etc
- 60,000 people 48 towns
- 30,000 people in Kalgoorlie

WATER QUALITY ISSUES

Microbiological Water Quality at Mundaring

Sources of contamination in Mundaring catchment

- People
- Agriculture (stock)
- Recreation



WATER QUALITY ISSUES

Microbiological Water Quality at Mundaring

Barriers

- Limited catchment management
- Dilution
- Detention
- Disinfection



Colin Terry, 2005

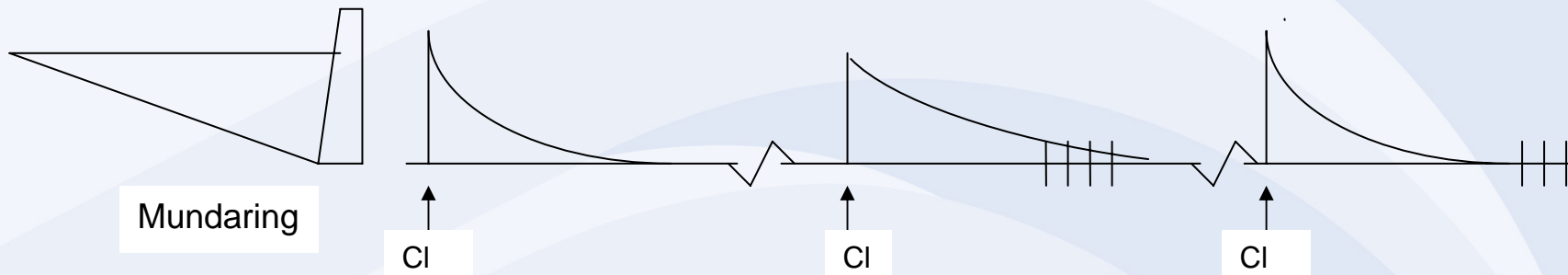
WATER QUALITY ISSUES

Microbiological Water Quality in the GAWSS

Naegleria is the major concern

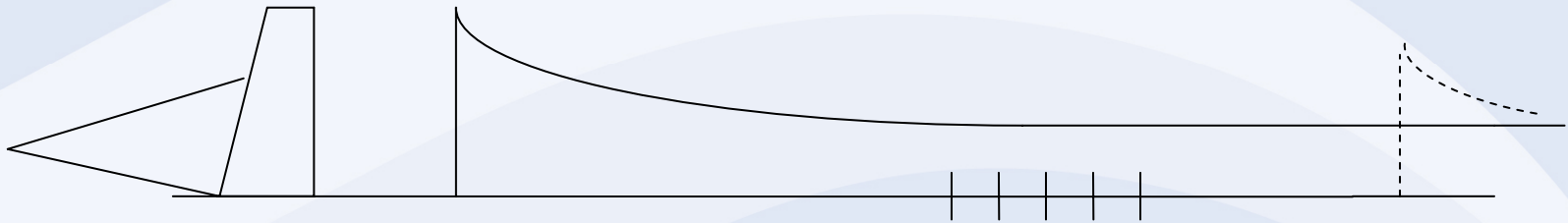
Naegleria is managed by chlorine residual

CURRENT SITUATION



Discontinuous chlorine residual allows naegleria to flourish

WHAT WE NEED



Continuous chlorine residual is a robust barrier to naegleria

WATER QUALITY ISSUES

Aesthetic Water Quality

The proposed water treatment plant will

- Remove turbidity
- Remove colour
- Allow chlorine residuals to be lowered

SUMMARY

Mundaring and the GAWS remain an engineering marvel

The GAWS has served the communities well for over 100 years

BUT

Community expectations and water quality standards continue to rise

Our customers trust us to look after their health

Our job is to ensure their water supplies are safe

Our obligation is to do whatever needs to be done

Look at - current best practice (eg. ADWG)

- learnings from elsewhere

We need a treatment plant for water from Mundaring Weir and it is a very important part of a larger improvement program