Watering The Outback Delivering potable water to Outback communities

Michael Donald George Bourne & Associates

Disclaimer:

The views portrayed in this presentation are those of the presenter and are not, in any way, representative of any organisation.





Legislation

Navigating one's way through the paperwork:

Acts – Water Supply (Safety & Reliability) Act 2008 Water Fluoridation Act 2008 SPA

Guidelines – ADWG

Regulations – Incident reporting

Policies – Environmental Protection (Water) Policy





Legislation (cont.)

Requirements:

Plans:TMPSAMP DMPEMPSLMPDWQMPRWMPTWCMPWEMPLGAMPCSSOWUCPMonitoring& Incident reporting:Reporting:SWIM (Thanks to QWD for streamlining this)LG Asset reportAd hoc





Responsibility

Who plays a part in water provision and where are they:

Service Water Providers (LG) – on the ground DERM – Toowoomba (Some representation in Longreach) Queensland Health – SEQ DIP – SEQ Private Business – Mining companies





Responsibility (Cont.)

Who plays a part in water Quality / Quantity:

Service Water Providers (LG) – monitoring & provision

 DERM – allocation, records (and research)?

 Queensland Health – setting standards (ADWG, Fluoridation)

 Private Business – research into CSG etc.

 Educational institutions – GAB studies, etc. often funded by big business





Responsibility (Cont.)

Who pays for water:

Infrastructure – Water Providers (LG) State Government Federal Government Private Business (Mining) Provision – Water Providers (LG) Training – Water Providers (LG) State Government Research - ?





Responsibility (Cont.)

Who keeps water records:

Infrastructure – Water Providers (LG) State Government – registers (eg bores) Provision – Water Providers (LG) State Government – SWIM, Quarterly water reports Research - ?





7

What have we got?

Source Water:

Surface water – Longreach, Jundah, Windorah







Source Water:

Shallow bores – Jericho, Alpha, Jundah







Source Water:

GAB – Winton, Barcaldine, Muttaburra







Source Water: Private – Rain water tanks Commercial – Bottled









Water treatment:

- Full treatment Longreach, Isisford
- Partial treatment Alpha, Jericho
- Disinfection only Dajara
- No treatment Aramac, Barcaldine, Rain water tanks
- Unknown Bottled (some has added fluoride etc.)





Reticulation :

Materials – Concrete

AC uPVC HDPe

Galvanised.





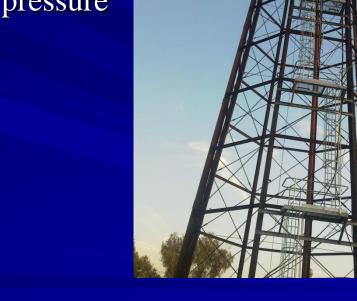


CSS:

Pressurization – Pumps

Elevated reservo GAB pressure









Staffing:

Qualified WTP operators – LG staff Plumbers – Contractors / LG staff Electricians – Contractors / LG staff Engineers – Contractors / LG staff

Schemes:

Size – Service from 2 connections to 1000 plus per scheme Distance – Birdsville to Alpha 14 hr car trip Type – Simple to fully automated





15

Physical Characteristics: Temperature Chemical composition Distance



Organisations representing the water provides (WQ): ORWG / RAPAD - Regional approach to water supply QWD - WSP voice through a unified organisation LGAQ





Where to Now?

Legislation – Plans, best to re-orgainse existing plans to reduce work load

Unified water provision – "One size fits all" No it doesn't!

Consistency – Do we need one set of CSS? Should we all be paying the same? <u>Or</u> do we meet customer expectations?





Where to Now?

Records – Always room for improvement

Sustainability – Not under current legislation

Fluoridation? – Applicable to Longreach, Blackall & Barcaldine
 Barcaldine – Population approx. 1400
 Assume 2,5 lts per person per day
 Water consumed is 3500 lts (3,5 Kl)
 Water used per day (summer) 5,8 Ml





Thank you.

Questions?

