



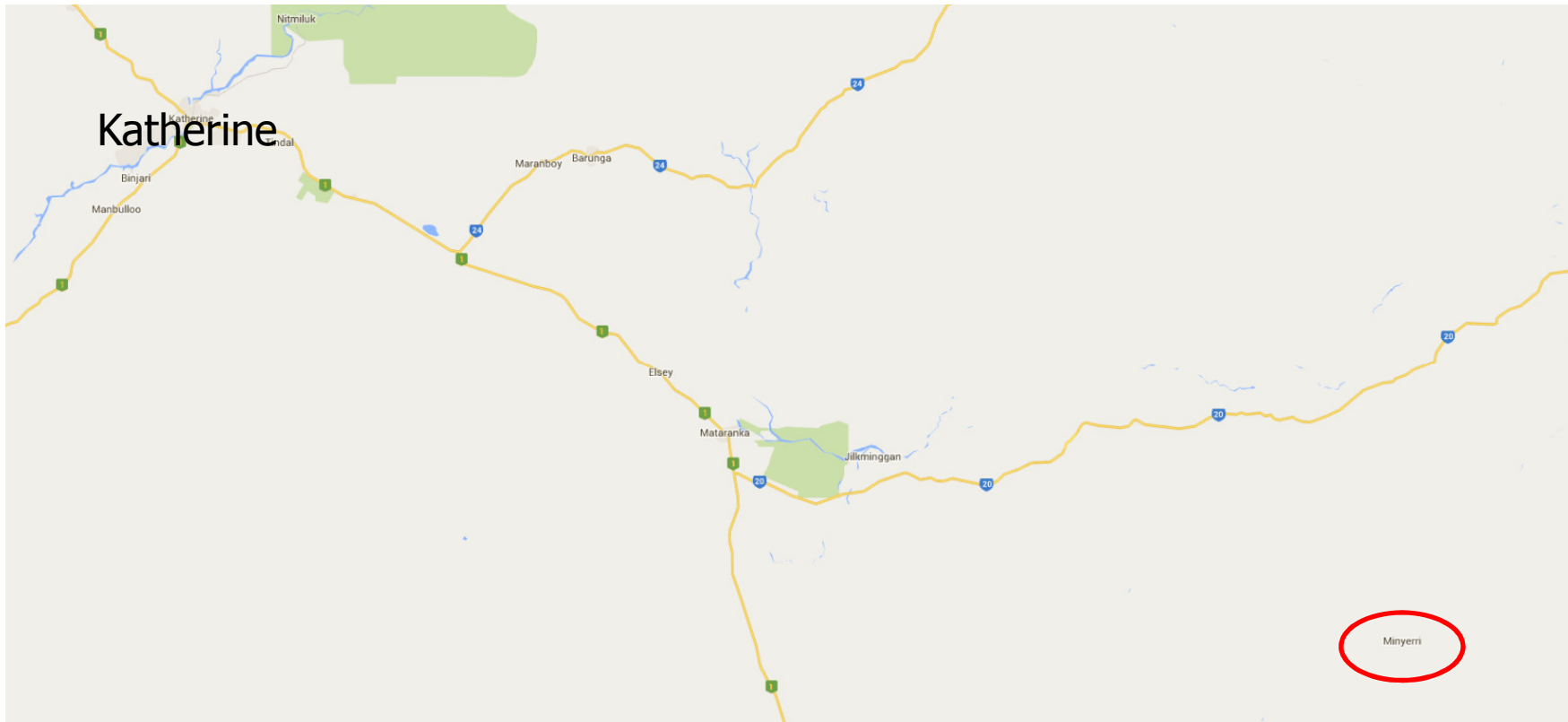
Minyerri geophysical and drilling project

5 May 2016

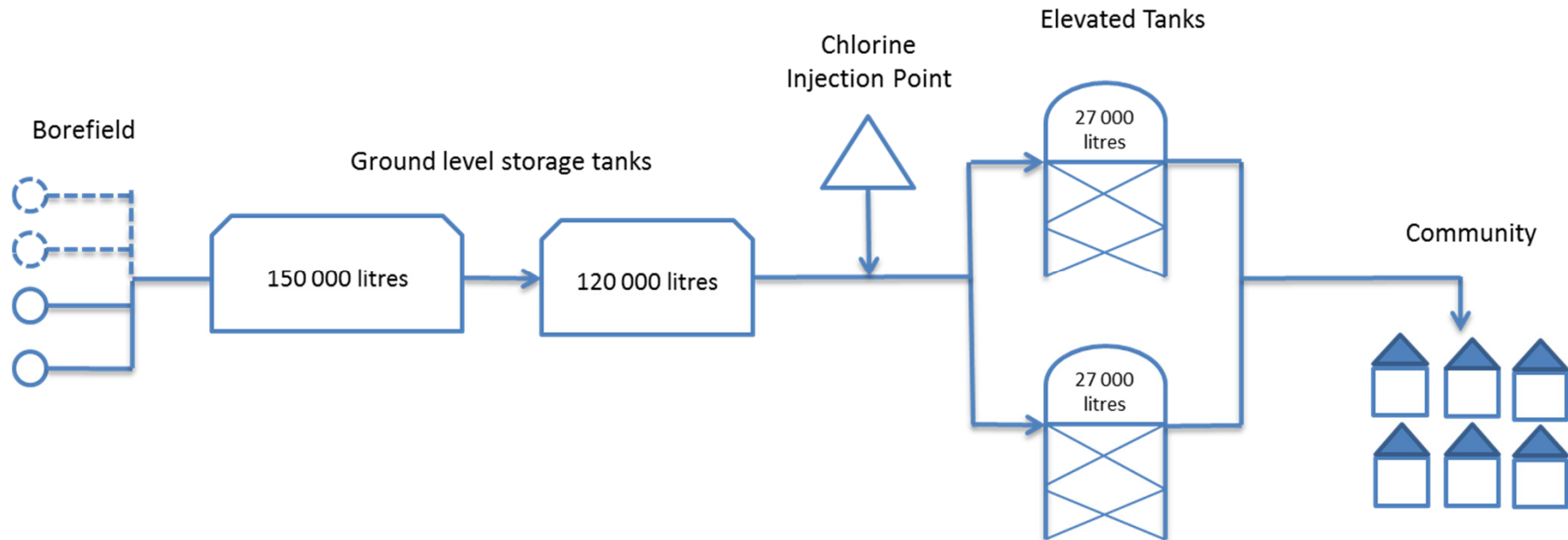
Elana Balderstone
Demand Management Project Officer
Power and Water

PowerWater

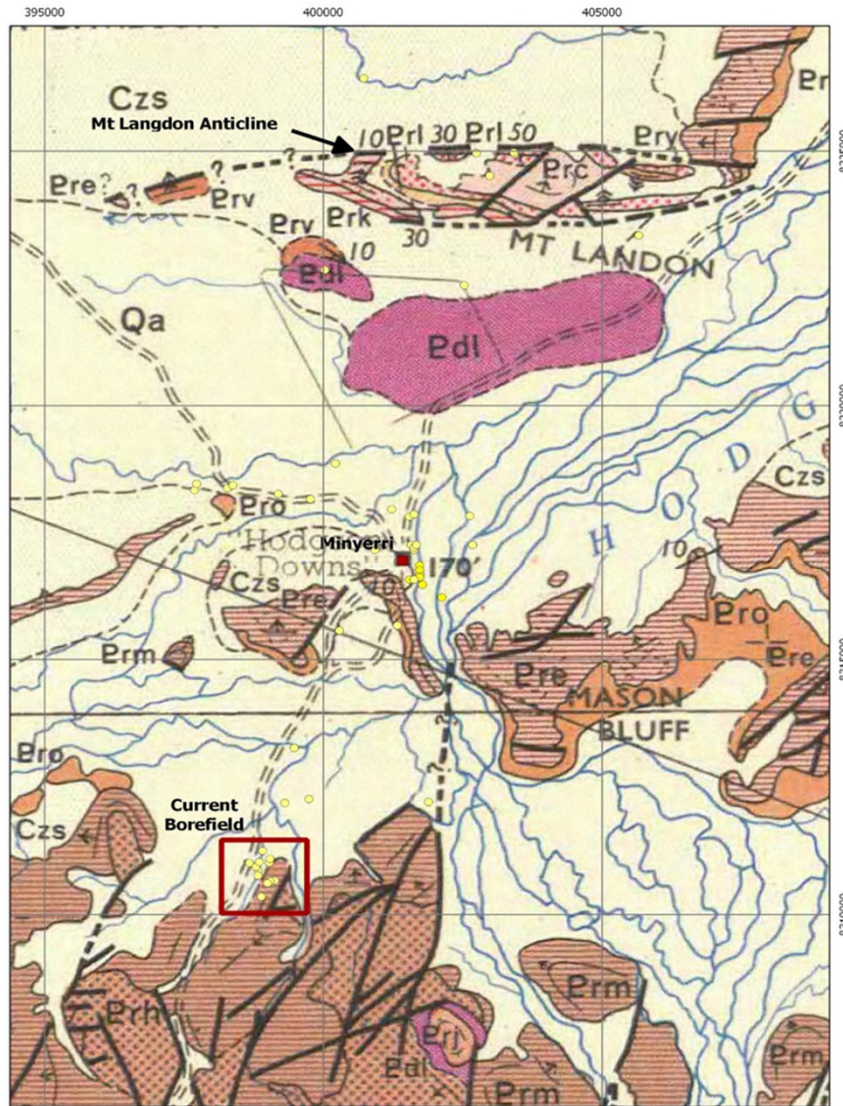
MINYERRI



MINYERRI WATER SYSTEM

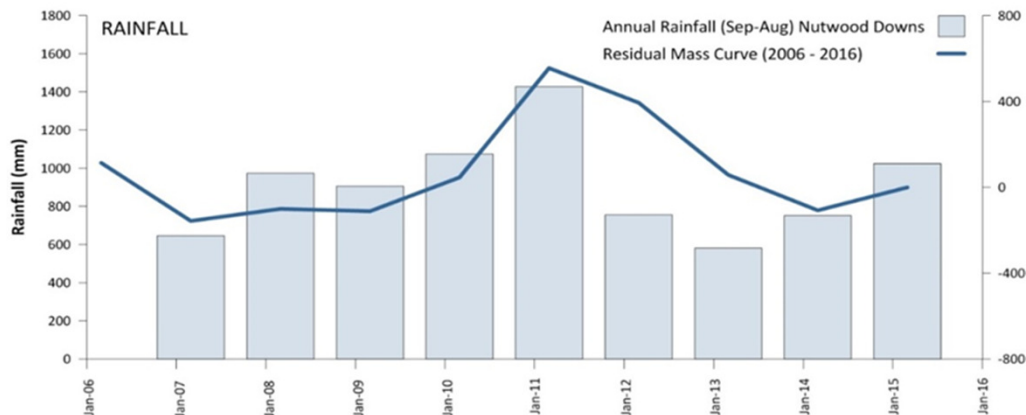
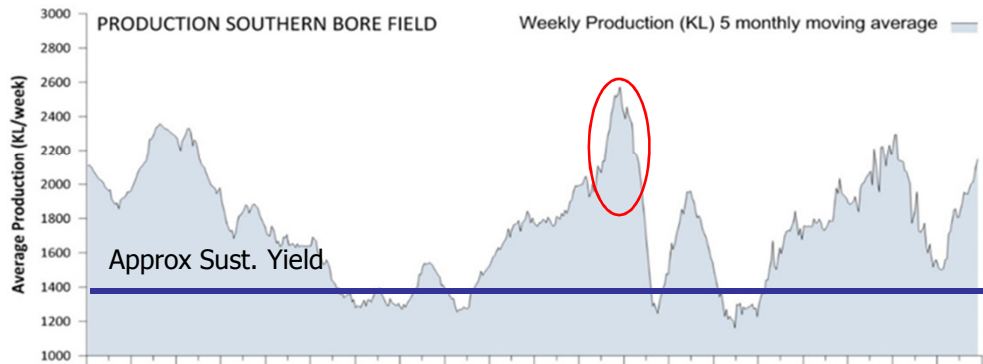
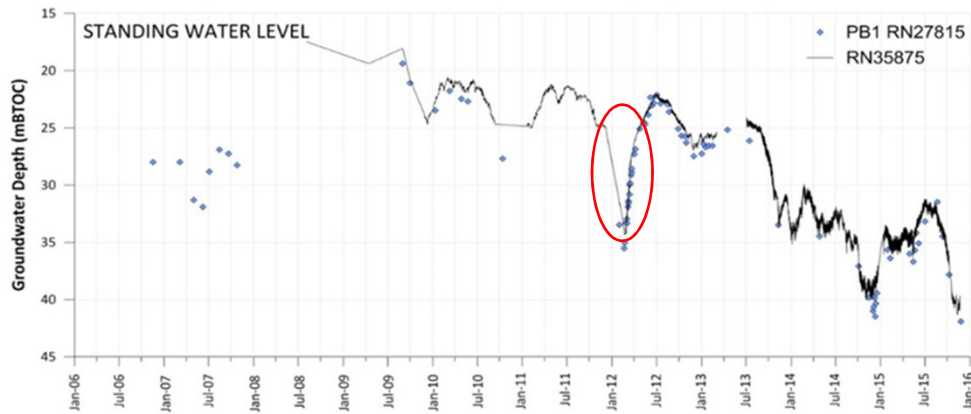


GEOLOGY AND WATER SOURCES



- Borefield 7km to south of community
- Sandstone, dolerite
- Aquifer is limited in extent
- 2 bores 2 km north of community in marginal aquifer. Status of aquifer unknown

MINYERRI STANDING WATER LEVEL - MUNYI MEMBER/DOLERITE AQUIFER



MINYERRI situation now:

- Demand 90ML/yr (av 1750 kL/week)
- Sustainable yield *approx* 1400 kL/week
- Borefield cannot sustain peak demand (end Dry Season)
- Rainfall below average 14/15 and tracking below average for 15/16 FY

What are we doing about it??

DEMAND MANAGEMENT PROJECT

Target – 10% water saving

Activities

- 2 x Leak investigations to residential houses
- Non-residential water audits
- Posters, magnets and tap tags
- Door to door engagement and education
- Presentation at Local Authority meeting



DEMAND MANAGEMENT PROJECT

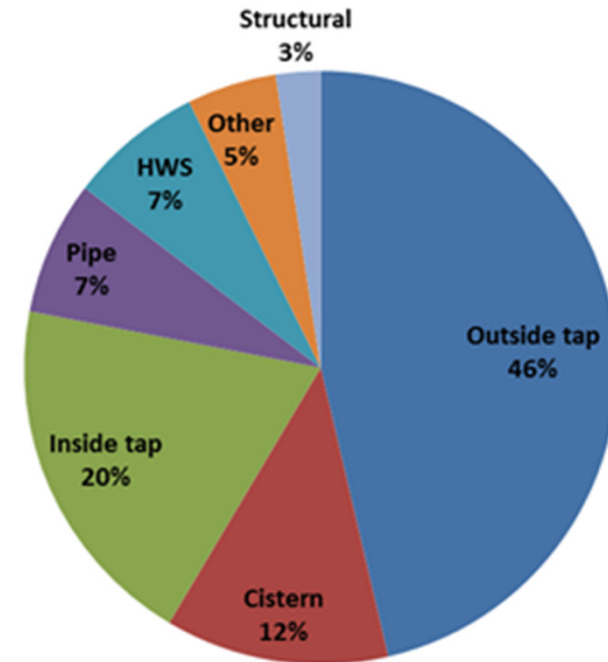
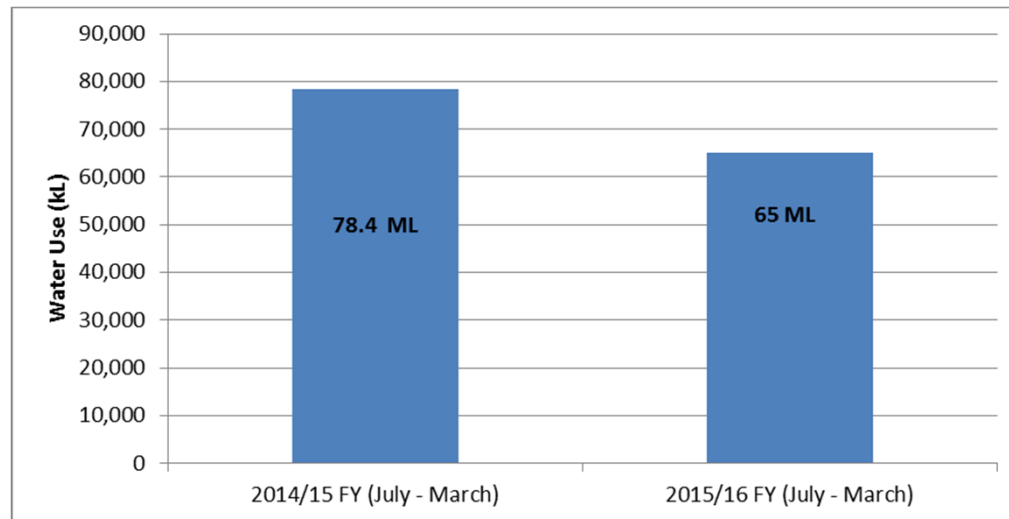
Results

Leak investigations

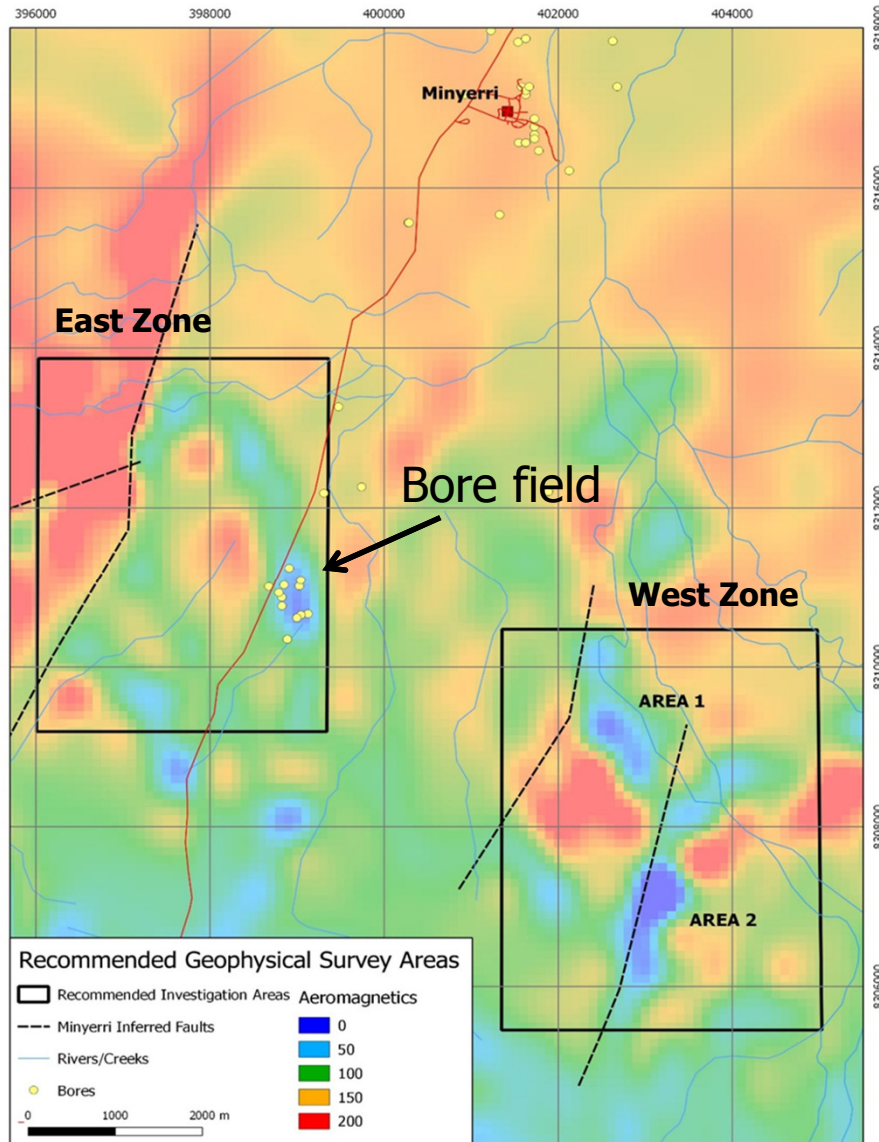
- 40 water leaks in residential lots
- 3 leaks in non-residential lots

Water Savings

- 13 ML of water saved, compared to same time previous year (17% reduction)
- Equivalent to 5.3 Olympic swimming pools of water



GEOPHYSICAL AND DRILLING PROJECT



2015/16 Desktop study

- Completed Feb 2016
- Two areas selected based on magnetic anomalies
- West zone 2-3km west of borefield
- East zone 3-4km south-east of borefield
- Alawa Land Trust land

2016/17 - \$750 k committed

GEOPHYSICAL AND DRILLING PROJECT



2016/17

Stage 1- Geophysical survey

- Locate target areas to drill
- Northern Land Council (NLC) consultation on geophysical survey May 2016
- Aboriginal Areas Protection Authority (AAPA) Registered Site Search complete
- Survey – July 2016

Stage 2 – Drilling

- AAPA certificate and NLC clearance
- Drilling in areas identified has high probability of water from stage 1



2017/18 – Stage 3

- Equip bores

PROJECT STAKEHOLDERS

- **Local Authority**
- **Community members**
- **Hodgson Downs (cattle station 15 km south of proposed areas)**
- **Northern Land Council (NLC)**
- **Aboriginal Areas Protection Authority (AAPA)**