SEQ Catchments
Community-Based
Groundwater Investigation

Partnerships leading to better groundwater management

PROCESS

START WITH LOCAL GROUNDWATER ISSUES

FORM A COLLABORATIVE GROUNDWATER INVESTIGATION GROUP (GIG)

- **Bring key stakeholders together**
- Identify issues
- Seek technical support
- Research available information
- **Develop a monitoring plan**
- Seek funding support

IMPLEMENT THE MONITORING PLAN

- Employ a coordinator
- **Identify available bores**
- Collate bore information
- **Train and support participants**
- **Maintain monitoring networks**
- Apply QA/QC procedures

DATA MANAGEMENT AND ASSESSMENT

- **Centralised Regional Body database**
- Geological surface mapping
- On-going data validation and assessment
- **Develop a conceptual hydro-geological model**
- Review issues in light of information collected

INFORMATION FEEDBACK AND COMMUNITY EDUCATION

- **Feedback to participants and wider community**
  - GIG forums
  - 'Over-the-fence' discussions
  - Newsletters
  - Community workshops

WATER RESOURCE MODELLING

IDENTIFY AND IMPLEMENT MANAGEMENT OPTIONS

OUTCOMES

- Collaborative community / technical approach
- A Monitoring Plan – documented why, what, where, when and how?

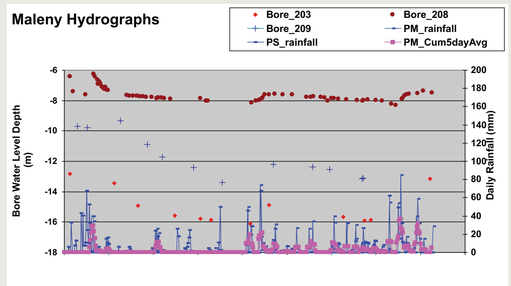
- Additional water resource information
- Established monitoring networks
- Community capacity building

- Nationally standardised database, with some data privacy constraints
- Improved groundwater understanding
- Groundwater condition trends

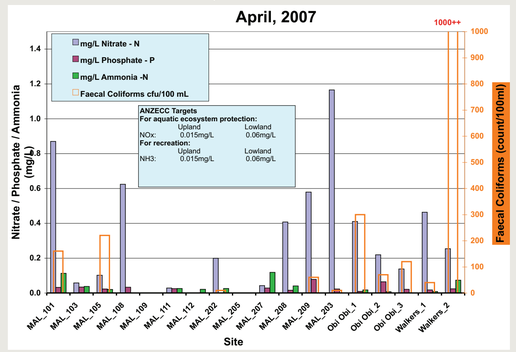
- Improved community awareness and understanding of groundwater
- Opportunities for better management

TYPICAL DATA

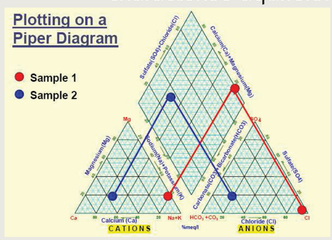
Groundwater level trends:



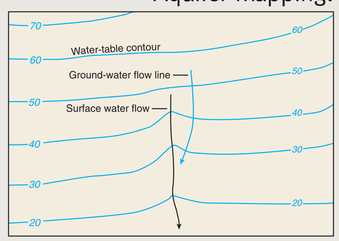
Groundwater Quality:



Using geochemistry to characterise aquifers:



Aquifer Mapping:



SEQ Catchments
Healthy land – healthy water

IN PARTNERSHIP WITH:
Sunshine Coast Groundwater Investigation Group (GIG)
and
Burnett Mary Regional Group ...for Natural Resource Management Inc
Queensland Government Natural Resources and Water
AQUAGEN WATER AND RENEWABLE ENERGY
PROUDLY SUPPORTED BY CALOUNDRA CITY