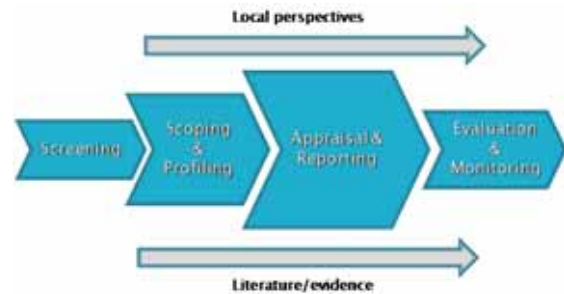


Ohura Water Supply Health Impact Assessment

Dr Richard Wall
Kay Kristensen



What is HIA



Method

- Literature review
- Community workshop and stakeholder interviews
- Focus on health determinants
 - Water quality
 - Water supply
 - Water affordability

Local government and health

- **Health Act 1956 s23**
 - "it shall be the duty of every local authority to improve, promote and protect public health within its district"

Water quality

- Current reticulated supply
- Roof collected rain water
 - Microbiological and chemical contaminants
 - Maintenance

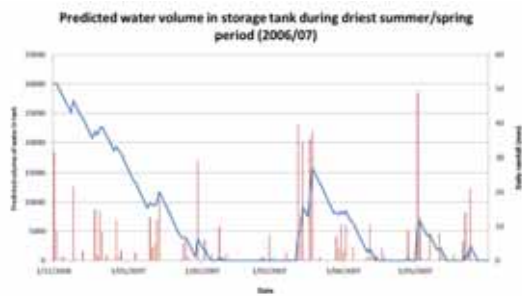
Water supply

- NZ water usage 250 – 300L per person per day
- Estimated usage Ohura 289L/person/day
- The current Ohura reticulated water supply has been able to provide a continuous supply of water to the community

Water affordability

- Socio-economic gradient in health

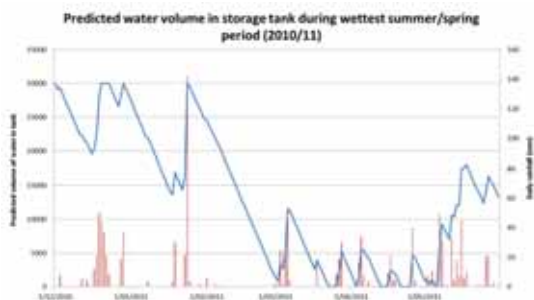
Water supply 1



Water affordability

| Area | NZ Dep | Median income (aged 15+) | Current water charge | Percentage of median income (current charge) | Percentage of median income (flat rate) |
|---------------|-----------|--------------------------|----------------------|--|---|
| Taumarunui | 10 | \$17800 | \$570.40 | 3.2% | 3.25% |
| Owhango | 6 | \$23100 | \$512.90 | 2.22% | 2.51% |
| National Park | 8 | \$27900 | \$900.45 | 3.23% | 2.08% |
| Raetihi | 9 | \$19100 | \$612.95 | 3.2% | 3.04% |
| Ohakune | 8 | \$24700 | \$451.95 | 1.83% | 2.35% |
| Ohura | 10 | \$11500 | \$1199.45 | 10.43% | 5.04% |
| Waiouru | 6 | \$29900 | \$580 | 1.94% | 1.94% |

Water supply 2



Water affordability

- Additional costs
 - Maintenance
 - Purchasing water
 - 9000L tanker cost \$350 + GST
 - 8000L tanker delivered \$480 (gst incl) – dependent on kms travelled

Community feedback

| | Existing supply | Rainwater tanks |
|---------------------|---|--|
| Water supply | <p>Few concerns about supply</p> <p>Support that supply provides to local services and amenities, and to enable gardening</p> | <p>Dependent on regular steady rainfall to ensure sufficient quantity in summer and times of drought.</p> <p>Impact on town at times of drought; viability of local services and amenities</p> |
| Water quality | <p>Concern among some of quality of current supply; others satisfied with supply</p> | <p>Concern among some of difficulty maintaining quality of water in tanks over time; others keen on tank option</p> |
| Water affordability | <p>Burden of high water rates</p> | <p>Burden of the cost of tank installation, house retrofitting, and loan repayments to council</p> |

Recommendations

- The Ruapehu DC should continue to supply treated reticulated water to the Ohura community
- Ruapehu DC should explore and utilise an alternative water rating system, such as a district wide flat water rate or targeted subsidies, to increase affordability of water for the Ohura community