



## Cemetery Reserve

**Site Number:** SNA110  
**Ecological District:** Rotorua Lakes  
**Source of Information:** Wildland Consultants (2005c) - Geothermal Site No. 64  
**Digital Scale:** 1:2,000  
**Data Source:** RDAM 2006  
**Regional Council:** Bay of Plenty  
**1998 Site Number:** NHS No. 110  
**Current Tenure:** Unprotected; Cemetery Reserve (site is not being managed for protection of geothermal features and vegetation)  
**Site Area:** 0.4 ha  
**Altitude Range:** 290 m  
**Bioclimatic Zone:** Lowland  
**Grid Reference:** NZTM E1886007, N5772335

VEGETATION		LANDFORM	EXTENT
CODE	TYPE		
1	Mingimingi-manuka scrub A mingimingi and manuka-dominated area with occasional kanuka shrubland and patches of <i>Hypolepis distans</i> , bracken, <i>Histiopteris incisa</i> , blackberry, and <i>Gleichenia microphylla</i> . Turutu also occurs in the understory. Emergent whauwhaupaku, black wattle, maritime pine, holly ( <i>Ilex aquifolium</i> ), and Lombardy poplar ( <i>Populus nigra</i> ) are also present.	Flat	0.3 ha
2	Arrow bamboo scrub Arrow bamboo to 3 m tall forms a dense scrub.	Flat	<0.1 ha
3	Mudpool A small geothermal mudpool	Crater	<0.1 ha
4	Nonvegetated raw-soilfield Bare ground, sinter, steaming soil and mudpool.	Flat	<0.1 ha

**Indigenous Flora:** No threatened or at risk species as listed in de Lange *et al.* (2009) are present at this site. Species typical of geothermal habitats are present, including manuka, mingimingi, kanuka, *Histiopteris incisa*, turutu, and *Gleichenia microphylla*. *Gonocarpus micranthus* and *Carex subdola* are also present.

**Fauna:** Indigenous and exotic species typical of these habitats are present.

**Notes on Overall Condition:** The site comprises a small geothermal area with some geothermal vegetation present. The site is in poor condition. It is relatively small and pest plants are common.

**Change Relative to Shaw and Beadel (1998):** The quality of the site has declined due to the continued spread of bamboo.

**Threats/Modification/Vulnerability:** *Invasive Exotic Plants:* Exotic plants are scattered throughout the margins of the geothermal area, including arrow bamboo (1-5% cover), black wattle (1-5% cover), holly (<1% cover), maritime pine (<1% cover), gorse (1-5% cover), and blackberry (1-5% cover).

**Human Impacts:** Unformed tracks occur in the geothermal vegetation.

Some graffiti and litter are present.

<b>Risk Assessment:</b>	Pest plants: Risk to site - high; Timeframe - medium.
<b>Significance Level:</b>	Local (Appendix 10 - Table 1 - Criteria 4, 6; Table 2 - Factor L1).
<b>Significance Justification:</b>	This site is of local significance as it contains a small area of geothermal vegetation, a nationally uncommon habitat type.
<b>Fieldwork Required:</b>	No fieldwork is required.
<b>Notes:</b>	<p>Small area of geothermal vegetation isolated by clearance of surrounding land. The site has potential for restoration.</p> <p>This site was identified as a “Recommended Area for Protection” (RAP No. 110) in the natural area survey of Rotorua Lakes ED (Beadel <i>et al.</i> 1998).</p>
<b>References:</b>	Beadel <i>et al.</i> (1996b); Wildland Consultants (2005c).