

**Wanaka Community Board  
21 October 2015**

**Report for Agenda Item: 2**

**Department: Infrastructure**

**Wanaka Airport Water Safety Plan**

**Purpose**

- 1 The purpose of this report is to seek endorsement of the Wanaka Airport Water Safety Plan (WSP) prior to submitting it to Public Health South.

**Recommendation**

- 2 That the Wanaka Community Board:
  1. **Note** the contents of this report;
  2. **Authorise** the Council to submit the Wanaka Airport Water Safety Plan to Public Health South [as per Option 2].

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12/10/2015

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Reviewed and Authorised by:



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**Background**

- 3 Historically, management of water supplies relied on monitoring the quality of the water that was produced and supplied and then comparing the results against the Drinking Water Standards for New Zealand (DWSNZ) for compliance. Whilst monitoring will still play an important part in public health management, WSPs are being introduced to reduce the likelihood and consequence of:
  - Contaminants entering the supply in the first place; or
  - Contaminants being reintroduced; or
  - Contaminants escaping the barriers designed to reduce them.

This WSP sets out the plan by which Council intends to meet the requirements of the Health (Drinking Water) Amendment Act 2007 (HDWAA) for the Wanaka Airport Water Supply.

- 4 The WSP is required to be submitted to Public Health South by 1 July 2015 as per the HDWAA. Council has until 1 July 2016 to submit a final WSP (a draft WSP was submitted).

### Comment

- 5 Each element (source, treatment and distribution) of the water supply is exposed to risk events of varying likelihood and consequence. In establishing a management plan, the level of risk to public health within each supply needs to be understood, quantified and managed. All risks have been assessed against the criteria of public health impact.
- 6 The extreme and high priority risks have been identified in the WSP. A preventative measure has been identified to reduce the likelihood of each event and an action to reduce its consequence. Actions are scheduled for implementation within the WSP.
- 7 There is no treatment plant and therefore the supply does not provide sufficient barriers to contamination. The high priority risks and proposed actions are:

EVENT	ACTION
Not enough water available / too little water can be drawn	Airport expansion - upgrade the bore, find an alternate water supply and / or provide treatment. Upgrade the bore pump shed and include a generator connection (for emergency chlorination unit). Budget for modelling of Wanaka Airport water supply .
Source water receives septic tank discharges	Connect Airport to Project Pure WWTP.
Source water in contact with mineral deposits	Radiological testing.
Contamination gets into the trunk mains	Investigate installing backflow preventers on private tanks and irrigation system if they are not present.
Contamination of the aquifer (the source)	Upgrade the borehead (seal) to meet DWSNZ requirements.
Introduction of contaminating material into the distribution	Investigate installing a flushing point in the network (install a valve at the end of the line).

### Options

- 8 This report identifies and assesses the following reasonably practicable options for assessing the matter as required by section 77 of the Local Government Act 2002:
- 9 The first step is to identify all "reasonably practicable" options. If an option is not reasonably practicable, then it will not require consultation. One option that should always be considered is the option of doing nothing – the status quo.
- 10 Option 1: Do Nothing – Status Quo

#### 11 Advantages:

12 No investment required from Council.

13 Disadvantages:

14 The HDWAA will not be met. Council will lose credibility with the Ministry of Health and Public Health South.

15 Option 2: Accept the WSP

16 Advantages:

17 Meets requirements of HDWAA.

18 Disadvantages:

19 Will require a commitment from Council to address the risks.

### ***Significance and Engagement***

20 Option 2 above is recommended.

21 This matter is of low significance, as determined by reference to the Council's Significance and Engagement Policy because it is required by law.

### ***Risk***

22 This matter relates to the strategic risk SR1 "Current and future development needs of the community (including environmental protection)", as documented in the Council's risk register. As the Airport expands and the community grows, the water supply will need to be upgraded or an alternative source developed.

23 The recommended option (Option 2) considered above mitigates the risk by:

Treating the risk - putting measures in place which directly impact the risk.

### **Financial Implications**

24 There are no financial implications associated with submitting the WSP as the report has been done in-house.

### **Council Policies, Strategies and Bylaws**

25 The following Council policies, strategies and bylaws were considered:

- Growth Management Strategy (2007) – Infrastructure is provided in a way that supports high quality development located in the right places while adhering to the principles of sustainable development and ensuring that the environmental qualities of the district are protected.
- 3 Waters Strategy (2011) – We will manage risk and be able to adapt to a variety of future scenarios for climate change and population growth.

26 The recommended option is consistent with the principles set out in the named policy/policies.

27 This matter is partially included in the 10-Year Plan/Annual Plan.

- The 2015 10-Year Plan includes budget for the relocation of an existing Council shed to the Wanaka Airport bore site and the sealing of the borehead with \$9,500 in 2015/16.
- If the water supply requires an upgrade or an alternative source developed in the future, budget will need to be sought.
- There is currently no budget to connect the Airport's wastewater to Project Pure. This will alleviate the risk of contamination of the water supply from on-site wastewater systems.

### **Local Government Act 2002 Purpose Provisions**

28 The recommended option:

- Will help meet the current and future needs of communities for good-quality local infrastructure, local public services, and performance of regulatory functions in a way that is most cost-effective for households and businesses by reducing the health risks associated with the Wanaka Airport water supply;
- Will require additional funding in the 10-Year Plan and Annual Plan;
- Is consistent with the Council's plans and policies; and
- Would not alter significantly the intended level of service provision for any significant activity undertaken by or on behalf of the Council, or transfer the ownership or control of a strategic asset to or from the Council.

### **Consultation: Community Views and Preferences**

29 The persons who are affected by or interested in this matter are residents/ratepayers of the Wanaka community, Public Health South and the Ministry of Health.

30 The Council held a risk workshop with Veolia and key Council engineering staff on 2 February 2015.

31 The Wanaka Community Board was consulted at a workshop on 2 September 2015.

32 Public Health South has been sent a draft WSP.

### **Legal Considerations and Statutory Responsibilities**

Relevant legislation includes:

- Health (Drinking Water) Amendment Act 2007

The Act requires all drinking-water suppliers providing drinking-water to over 101 people to develop and implement a WSP. Specifically, the purpose of this part of the Act is to protect the health and safety of people and communities by promoting adequate supplies of safe and wholesome drinking-water from all drinking-water supplies.

Section 69Z of the Health (Drinking Water) Amendment Act 2007 requires that:

"(1) Every drinking-water supplier must, on or before the date on which this section begins to apply to that drinking-water supplier, prepare in writing either or both of the following, whichever is applicable:

(a) a water safety plan in relation to that drinking-water supplier's drinking-water supply:

(b) in the case of a drinking-water supplier who is a water carrier, a water safety plan in relation to that water carrier's method of transporting raw water or drinking water."

## **Attachments**

A Wanaka Airport Water Safety Plan