

Mayor and Councillors  
**COUNCIL**

**17 DECEMBER 2009**

Meeting Status: Public

Purpose of Report: For Decision

## WATER SUPPLY OPTIONS - INFORMATION REVIEW

### **PURPOSE OF REPORT**

- 1 This report updates the Council on the Water Supply/Storage Capacity project (known as Water Supply project) information review of technical reports, Council reports, policies, and strategic documents.
- 2 The purpose of the report is to provide Council confidence that all relevant water supply solutions have been considered and seek approval from Council on:
  - 2.1 the approach taken to eliminate non-viable solutions, and
  - 2.2 the next action/steps that have to be completed before the further reduction of solutions to be reported to Council.

### **SIGNIFICANCE OF DECISION**

- 3 The Council's significance policy is not triggered.

### **BACKGROUND**

- 4 The objective of the Water Supply project is to find a solution to secure sufficient water supply for Waikanae, Paraparaumu/Raumati for the next fifty years. The Long Term Council Community Plan (LTCCP) commits to having a solution in place by 2015.
- 5 The Council has attempted to secure a long term water supply for the last 20 years. It has proven to be a contentious issue that has been the subject of media attention. Based on past experience there is a significant risk the project could become protracted and not achieve the current objective if it is not carefully planned and executed.
- 6 The 2009 LTCCP states;
  - *The nature of the increased capacity has not yet been decided. There will be an extensive assessment of options undertaken, with full consideration of all environmental, social and financial issues associated with any proposed solution.*
- 7 The community outcomes annual measures and targets for water management defined in the LTCCP 2009 relating to water supply are:
  - *Peak water consumption is no more than 400 litres per person per day (lppd) by 2012/13 at all times;*

- 250 lppd for essential use;
  - 150 lppd for nonessential use;
- *Completion of Waikanae, Paraparaumu, Raumati water supply options by end of 2014/15.*
- 8 This year Council has concentrated its focus and effort on progressing the Water Supply project. A plan (refer to report DP-09-763 Water Supply Project Budget Reallocation) has identified key stages, and a sequence of steps, that are required to achieve the 2015 target date. It has also shown the early phases of the project require resources to be dedicated to achieve a number of key steps. These include engaging a suitable qualified technical advisory consultant to review all existing technical and Council information for water supply solutions.
- 9 The selection of the technical consultant was a tender process that was divided into two stages. This was considered necessary due to the time constraints and the potential number of interested consultants.
- The first stage called for an ‘Expression of Interest’ of which eleven were received.
  - Four were short-listed and progressed to the next stage involving the ‘Request for Proposals’ that was divided into two phases.
  - The first phase being the presentation of the consultant’s proposal documentation at which time four were reduced to two preferred tenders.
  - Then the final phase was the interview of the two project teams.
- 10 CH2M/Beca was identified as the preferred technical consultant. They have now completed the data review that is attached to this report.
- 11 The documents reviewed identified that over thirty water supply and storage solutions have been considered since 1991. During that period the borefield option was investigated and built.
- 12 The basis for this information review was the 160 plus reports that had been circulated to Council in 2008.

## CONSIDERATIONS

### Issues

- 13 CH2M/Beca prepared the attached report (see appendix 1) outlining the factors that contribute to the water supply issues of the District. The report has taken a wider view, examining not only the Waikanae Paraparaumu/Raumati area, but also the wider districts potential long term water needs. This is part of a deliberate strategy to engage the wider community in the debate on water supply.
- 14 The report identifies over thirty solutions that had been identified in existing reports. This list was expanded to forty possible solutions following discussions with Council officers and the Technical Advisory Group (TAG). TAG members provided additional solutions options, for example, options with multiply solutions as a package.

- 15 CH2M/Beca developed a “coarse screening” approach to assist in identifying non-viable solutions. The coarse screening was based on capital cost, yield, and a judgement on the technical difficulties, the difficulties to consent, or acceptability to the community of the solutions. The TAG reviewed and endorsed this approach.
- 16 Thirty one solutions remain after applying the coarse screening to the forty solutions identified. Council may wish to use this approach in deciding whether to exclude these solutions or to exclude others.
- 17 During the information review a number of items have been identified requiring further investigation and decisions. Areas of technical investigation include:
  - Comparative assessment of planning and environmental concerns including climate change.
  - More robust assessment of demand estimates (peak water consumption target of 400 litre per person per day has been defined);
    - commercial/industrial demands
    - Estimated unaccounted for water volumes
    - Population growth figures
    - 50 year drought reliability standard
- 18 To determine the viability of solutions a design for 50 year peak daily demand of 26,000m<sup>3</sup>/day is proposed for Waikanae, Paraparaumu/Raumati based on a medium growth projection. The current consented total water allocation from river and/or borefield is 23,000m<sup>3</sup>/day.
- 19 There has not been any technical analysis of the reports and the data has been accepted as reported. Only the information provided has been reviewed. This particularly applies to capital cost being escalated to 2009 values and expected yield (capacity) of each solution.
- 20 The next phase of technical analysis will allow Council, following community input on selection criteria, to reduce the number of possible solutions down to 3 to 10. This is dependant on the option approved in the Council report DP-09-763 (to be heard following this report).

### Financial Considerations

- 21 The budget of \$23 million has been used as the maximum capital cost. Solutions estimated to clearly exceed this budget were eliminated through the coarse screening.

### Legal Considerations

- 22 No legal advice is required as this is a review of existing documentation.

## Delegation

- 23 Council may make a decision on this matter under Section A.2 of the Governance Structure 2007-2010: *“Exercise any other Council powers, duties and functions of a strategic overview nature including infrastructure development and coordination...”*

## Consultation

- 24 No public consultation has been sought on the information review report attached.
- 25 The consultation programme relating to selection criteria has commenced with public meeting in each urban area. This will continue throughout the project with another round planned for late January 2010. A public Water Forum is also planned for early February 2010.

## Policy Implications

- 26 There is no policy implications generated by this report. The LTCCP and other relevant strategic documents including the Wellington Regional Strategy have been reviewed as part of the information review captured in the attached report (see appendix 1).

## Publicity Considerations

- 27 The report addressing relevant technical issues as identified in Council and public documents. It is proposed that this report and the attached report (see appendix 1) will be made available to the public.
- 28 There is a process developed that is being implemented to address consultation with Tangata Whenua and the wider community for ongoing consideration of water supply solutions.

**RECOMMENDATIONS**

- 29 That Council note the attached report (see appendix 1) as a comprehensive list of possible water supply solutions.
- 30 That Council agree to investigate further the 31 solutions proposed in the attached report (see appendix 1).

**Report prepared by:**

**Approved for submission by:**

**Phillip Stroud**

**Kevin Jefferies**

**Title: Project Manager**

**Title: Group Manager – Development  
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**ATTACHMENTS:**

Appendix One: Water Supply Capacity Review an Options for Supplementary Supply – Preliminary Status Report, CH2M/Beca, 8 December 2009.

**24 November 2009 02:47 P.M.**