

**Hahei Beach Ratepayers
Association**

To Hahei Beach Rate Payers Association Committee
From Bill Stead
Date 26 May 2017
Subject **Sewage Initiative Update May 2017**

1. Actions since last Committee Meeting

As we agreed at the last Committee Meeting, one of the key initiatives for 2017/18 is the development of Hahei Village Sewage scheme. A working group comprising Penne Clayton, John North, Stephen Holehouse, and Alastair Sims has been formed. The group has exchanged numerous emails, and met to discuss status on 5 May 2017.

The following is summary of status

- Draft Terms of Reference of Sewage Study has been completed and distributed to HBRPA Committee and TCDC. See attached copy.
- Considerable amount of existing data has been collated. We now have data relating to the pollution of Wigmore Stream, operations of existing plant etc.
- We have set up a kick off meeting with TCDC and WRC on June 9 2017 for the sewage working group.

2. Next Steps

The kick off meeting with TCDC and WRC will be key in determining next steps on this project. At the meeting, we will develop a program and determine the resources required.

We will report outcome of the meeting to the next Committee Meeting.



Hahei Bay Environmental Management Plan – Water & Wastewater

Terms of Reference

1. Background The community of Hahei wish to investigate options for protecting water quality in Hahei Bay for future generations. The area has outstanding beauty and has become one of New Zealand's key tourist destinations. With the increased numbers of tourists visiting, and additional people living in Hahei, pollution of the Wigmore Stream, and other waterways, is no longer acceptable.

[180] Hahei properties are connected to a sewage treatment plant owned by TCDC. The plant is operated under contract by Veolia. The plant has a consent capacity of up to 700 m³/day. [Details can be found Harrison Grierson Report, 1014-137316-01, June 2015.]

In accordance with its RMA consent, the Hahei motor camp has right to discharge up to 191.25m³/day (27% of the total capacity) to the existing sewage treatment plant.

[350?] Hahei properties are not connected to the central sewage treatment plant, and have onsite treatment plant. These range from old septic tanks to modern package treatment plants.

The updated District Plan has approved an additional [100] properties at the entrance to Hahei. It is essential that these properties connect to the sewage treatment plant to prevent pollution of Hahei.

Tourism is growing rapidly. Currently, approximately 200,000 people visit Hahei/Cathedral Cove and we should plan for additional tourist facilities to service projected rapid growth in tourism.

With the forecast flooding due to climate change, any environmental control strategies should be designed to deal with significant storm water events.

2. Objective *Uphold Te Mana o te Wai, acknowledging and protecting the mauri of the water. Also provide for Te Hauora o te Taiao (health of the environment), Te Hauora o te Wai (health of the water body) and Te Hauora o te Tangata (the health of the people).*

1. Determine all sources of pollutants discharging into streams and other waterways that may flow into Hahei Bay.
2. Prepare Catchment Management Plan for Wigmore Stream and other streams entering Hahei Bay, so that all streams all meet National Policy Standards for Swimming and Recreation Standards.
3. Develop Sewage implementation plan for Hahei Village.

4. Scope of Work

Work will focus on the following area

1. Estimate of future pollution loads. Specifically:
 - a. Determine Population growth – while Hahei currently has a permanent population of [300?], this is expected to grow over time. What is a reasonable forecast for population growth over the next 20 years, recognizing the rapidly growth tourism.
 - b. Monthly/Peak loads – gather existing data on water and sewage flows. Develop robust forecast for average and peak flow recognizing:
 - i. large visitor numbers during the summer season
 - ii. More permanent residents
 - iii. Larger holiday houses with higher discharge rates
 - iv. Potential business growth related tourism. This may include camp ground expansion, additional motels, etc.
 - c. Collection Area – forecast future loads based expansion of sewage coverage area and on geographical expansion of Hahei i.e. 100 Acres.
2. Wigmore and Other Stream Catchments - Develop a catchment management plan for each catchment area to:
 - a. minimize sediment and organic run-off
 - b. Ensure that all streams meet National Policy Standards for Swimming and Recreation by 2020.
3. Sewage Implementation Plan for Hahei Village – based on the above studies, prepare a feasibility study for a complete sewage treatment system of the whole of Hahei Village. The feasibility study must address the following:
 - a. Existing Plant capacity and expansion options;
 - i. what is hydraulic and biological capacity of the existing treatment plant? How can it be expanded to deal with forecast loads.
 - ii. Prepare an estimate for capital cost of the expansion of the existing treatment plant to deal with forecast increased flows. Determine future operating costs
 - b. Sewage Collection System – Develop a long-term plan to install sewers over the whole of Hahei Village. The long-term plan should address:
 - i. Estimate of Capex. This should be broken down for each area of Hahei, and should include also an estimate of construction time.
 - ii. Identify priority areas such as the Wigmore Stream, and other areas that will have most immediate effect on reducing pollution entering Hahei Bay.

- c. Financial Plan – Develop a resident focused financial plan that addresses:
 - i. Forecast Connection cost and forecast annual operating cost for each property.
 - ii. Any cost impact on existing properties connected to sewage system.
 - iii. Financing options for property owners i.e. spread capex cost of [5] years.
 - iv. Potential for local construction options i.e. how can we maximize Hahei residents input on the construction of the project.
- d. Legal – Identify legal basis for implementing the scheme. Specifically:
 - i. Legal basis for requiring properties to connect to system.
 - ii. Precedent from other projects.
- e. Risk Assessment – Identify risks and mitigation strategies.

**5. People/
Resources
Required**

Hahei Ratepayers Association Inc. has created an Environmental Protection Team comprising Steve Holehouse, Penne Clayton, John North, and Alastair Sims.

To develop the information and plan specified above, we require the following inputs:

1. WRC – We expect WRC to take the lead in development a river basin management plan for the Wigmore Stream. HBRPA will work with local residents and land owners to assist in implementing the plan.
2. TCDC – We expect TCDC to provide leadership in the development of the sewage treatment system.

**6. Consulta-
tion with
Hahei Resi-
dents**

Throughout the feasibility study period it is essential that Hahei residents are informed about progress. HBRPA is happy to take lead with community communication.

This will include regular newsletters, community meetings, surveys, mail-outs and social media.