OUTLINE OF PROGRESS

- Progress has been made on the proposed East Rotoiti and Rotoma Sewerage Scheme. A local site for the treatment plant has now been obtained. Work is now being done on detailed plant design and a Resource Consent, including cultural assessments. The location of the Biolytix trial for Rotoiti is now finalised, and a recommendation has been made about how to deal with Ngamotu (Doctors Point).

Purpose of the sewerage scheme:

- To help protect the mauri of the lakes - to keep the lakes clean
- To protect the health of the people
- To avoid the issues of OSET compliant units at every house
- To make good use of available subsidies

COMMUNITY MEETINGS AND HUI

You are invited to the community meetings and hui below, to hear about and discuss progress.

10.00 a.m.  Sunday, 10 January 2016  Rotoiti Sports Club
1.00 p.m.  Sunday, 10 January 2016  Rotoma Community Hall
**BACKGROUND**

The Rotoma Rotoiti Sewerage Steering Committee (RRSSC) was formed in December 2014.

The following work was done:
- The community, Rotorua Lakes Council and Bay of Plenty Regional Council, worked together to plan the scheme.
- A workshop was held.
- A Technical Advisory Group investigated many options.
- The community was consulted.

Unanimous RRSSC agreement was reached on a **preferred option** which:
- Would meet the deadlines for the subsidies on offer.
- Would allow the Biolytix units, which some iwi favoured, to be tried.
- Was a compromise, agreed to by all parties so as to get a sewerage scheme.

The compromise recommended to Rotorua Lakes Council as the Preferred Option was:
- A sewerage treatment plant (MBR) and land treatment system in the scheme area.
- Houses at Rotoma connected to the piping system by grinder pumps.
- A trial of Biolytix units at Rotoiti:
  - If trial is successful, houses at Rotoiti to connect through Biolytix units (or similar) to the piping system and the treatment plant.
  - If the trial is unsuccessful, grinder pumps to be used at Rotoiti to connect.
- If a local site for treatment and discharge is not found, sewage to be piped back to the Rotorua Wastewater Treatment Plant, and houses connected by grinder pumps to the piping system.
COSTS AND SUBSIDIES

- **COST OF SCHEME**
  Total cost - $31.7 million

- **SUBSIDIES**
  - Ministry of Health – MoH
  - Ministry for the Environment – MfE
  - BOP Regional Council BoPRC
  - Rotorua Lakes Council – RLC
  - Total subsidies - $24.4 million

- **COST PER PROPERTY**
  Payment plans available:
  - Lump sum
  - Spread over 25 years
  Alternative is OSET

<table>
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<tr>
<th>Source of subsidy</th>
<th>Capital cost</th>
<th>Spread cost</th>
<th>Annual operating charge*</th>
<th>Total cost per year</th>
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<td>BOPRC</td>
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<td>RLC</td>
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*Charge averaged over all sewerage schemes in Rotorua District (Costs GST incl.)

RLC LTP* $29.324M cost included
Overwhelming community submissions in support

BOPRC LTP* $4M extra subsidy (total subsidy $8.6m)

Councils’ support greatly appreciated

* LTP: Long Term Plan
**PROPOSED SEWERAGE SCHEME**

- **Piping System**

  From Rotoma hills to Curtis Road –
  - and side roads (but not Kennedy or Otautu Bays)

  Wahi tapu respected

![Map of piping system]

(Source: RLC website)

- **Rotoma**

  Houses connect to piping with grinder (LPG) pumps

  Similar to other lakeside communities

![Rotoma houses]

(Source: RLC website)

- **Rotoiti**

  Trial of Biolytix units at Ruato Bay and Gisborne Point

  If successful, Biolytix units will connect to piping system

  Otherwise grinder pumps will be used

![Rotoiti trial site]

(Source: Biolytix website)
• **Treatment Plant Site**

We have a site for the treatment plant – thanks to owners of Haumingi 9B3B

It is on a plateau behind Emery’s store

Note: the previous site became unavailable

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• **Treatment Plant**

A modern MBR (membrane bioreactor) plant

Human wastes are digested - and pass through a very fine filter

Alum added to remove phosphorus (P)

Almost all nitrogen (N) removed

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• **Land Disposal**

Outflow nearly pure when discharged

Trenches in pumice

Well away from the lake
NGAMOTU PROPOSAL

- **Ngamotu (Doctors Point)**
  
  Land owned by Rotoma No.1 Incorporation
  
  20 houses
  
  Holiday use only
  
  No road access

- **Ngamotu Options**

  **Option 1** - Connect to Rotoma
  - pipe under the Lake
  
  **Option 2** - Connect to Rotoma
  - pipe through Forest
  
  **Option 3** - Local treatment and disposal
  - MBR + LTA
  
  **Option 4** – ‘OSET’ system for each property
  
  **Plan B** - Composting Toilets and Greywater System

- **Ngamotu Costs**

  (GST excl.)

<table>
<thead>
<tr>
<th></th>
<th>Option</th>
<th>Capital cost</th>
<th>Operating cost p.a.</th>
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<tbody>
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<td>1</td>
<td>Pipe under the lake</td>
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<td>$9,500</td>
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<td>2</td>
<td>Pipe through forest</td>
<td>$2.91M</td>
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<td>3</td>
<td>Local Treatment Plant &amp; disposal</td>
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<td>OSET system for each property</td>
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<td>Plan B</td>
<td>Composting Toilets &amp; Greywater Systems</td>
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</table>
• **Ngamotu Preferred Option**

**Plan B** - Composting Toilets and Greywater System

Part of Scheme

RLC install and maintain

Pay same charges as rest of community

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**Next steps**

Treatment plant site - full geotech investigation

Cultural Impact assessments

Preliminary design of plant etc.

Assessment of Environmental Effects

Apply for Resource Consent

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**Rotoehu**

RLC has scoped options

Community have indicated support for sewerage

Next step, detailed consultation on options

Not part of East Rotoiti Rotoma scheme - could feed into it if necessary

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**Development awaits funding in RLC LTP**
Project Timeline

Rotoma

November 2015  Owners agreement on Haumingi 9B3B (15 November 2015) COMPLETED
April 2016  Detailed investigation of site done
October 2016  Resource Consent Application and approval
April 2017  - Detailed design and tender (WWTP + LDS)
           - Detailed design and tender (Rotoma piping systems)
August 2018  - Construction and commissioning (WWTP + LDS)
           - Commissioning (Rotoma piping systems)

Rotoiti

November 2015  Agreement on Biolytix Trial (Ruato Bay etc.) COMPLETED
January 2016  Detailed design of trial
March 2016  Resource Consent for trial site
June 2016  Trial site construction
June 2017  Trial carried out
May 2018  Detailed design and tender (Rotoiti piping systems)
July 2019  Commissioning (Rotoiti piping systems)

For more information, please contact:

Ian McLean, Chair, Rotoma Rotoiti Sewerage Steering Committee
imcleannz@gmail.com
021 435 845

Greg Manzano, Manager, Water Planning
Rotorua Lakes Council
Greg.manzano@rotorualc.nz
(07) 351 8204