

# Rotorua Te Arawa Lakes Strategy Group

## NOTICE IS GIVEN

that the next meeting of the **Rotorua Te Arawa Lakes Strategy Group** will be held in **The Council Chamber, Rotorua Lakes Council, Civic Administration Building, 1061 Haupapa Street, Rotorua** on:

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**Friday, 5 April 2019 commencing at 9.30 am.**

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Fiona McTavish  
**Chief Executive**  
Bay of Plenty Regional Council Toi Moana

Bay of Plenty Regional Council,  
Rotorua Lakes Council and  
Te Arawa Lakes Trust.

*Working as one to protect our lakes with funding  
assistance from the Ministry for the Environment.*



**ROTORUA  
TE ARAWA  
LAKES  
PROGRAMME**



# Rotorua Te Arawa Lakes Strategy Group Terms of Reference

## Interpretation

In these Terms of Reference:

“Organisations” means the Te Arawa Lakes Trust, the Rotorua District Council and the Bay of Plenty Regional Council.

“Rotorua Lakes” means Lakes Rotorua, Rotoiti, Rotoehu, Rotoma, Okataina, Tikitapu, Okareka, Tarawera, Rotomahana, Rerewhakaaitu, Okaro and Rotokakahi.

“Group” means the Rotorua Te Arawa Lakes Strategy Group, formed as a Joint Committee under Clause 30 of Schedule 7 of the Local Government Act 2002.

## Purpose

The purpose of the Group is to contribute to the promotion of the sustainable management of the Rotorua Lakes and their catchments, for the use and enjoyment of present and future generations, while recognising and providing for the traditional relationship of Te Arawa with their ancestral lakes.

## Membership

Six members:

- The Chairperson of the Te Arawa Lakes Trust and one other senior representative;
- The Mayor and one other elected representative of the Rotorua Lakes Council;
- The Chairperson and one other elected representative of the Bay of Plenty Regional Council.

## Quorum

As per clause 3.1 of the RLSG Agreement (dated 8 October 2004), the ordinary quorum for a meeting of the Group will be one member from each of the Organisations.

## Group Chairperson

The Group has agreed to rotate its Chairperson on an annual basis.

## Term of the Committee

This is a permanent joint committee under the Te Arawa Lakes Settlement Act 2006. The *Te Arawa Lakes Deed of Settlement* (December 2004) included clauses establishing the Group (Cultural Redress: Lakes Management and Relationships, clauses 9.1 to 9.3). The Terms of Reference for the Group come from a signed agreement between the three parties (dated 8 October 2004) and included in Part 1 of the Relationship Schedule to the Deed of Settlement.

## Specific Responsibilities and Delegated Functions

The Group will have the following functions:

- The provision of leadership to the Organisations and the community in relation to implementation of the Vision of the Strategy for the Lakes of the Rotorua district 2000.
- The identification significant existing and emerging issues affecting the Rotorua Lakes.
- The preparation, approving, monitoring, evaluation and review agreements, policies and strategies to achieve integrated outcomes for the Rotorua Lakes.
- The identification, monitoring and evaluation of necessary actions by the organisations and other relevant organisations.
- The receiving of reports on activities being undertaken by the organisations and other relevant organisations.
- Involvement during the preparation of statutory plans in relation to significant issues. Such plans include but are not limited to iwi and hapū management plans, district and regional plans, reserve management plans and annual plans.
- Involvement in applications for activities in relation to significant issues not addressed by existing policies of the co-management partners. Such activities include but are not limited to resource consents, designations, heritage orders, water conservation orders, restricting access to the lakes (during special events or in particular circumstances), and transferring and/or delegating of statutory authority.

**Note:**

The Rotorua Te Arawa Lakes Strategy Group reports directly to the Regional Council.

## Public Forum

1. A period of up to 15 minutes may be set aside near the beginning of the meeting to enable members of the public to make statements about any matter on the agenda of that meeting which is open to the public, but excluding any matter on which comment could prejudice any specified statutory process the council is required to follow.
2. The time allowed for each speaker will normally be up to 5 minutes but will be up to the discretion of the chair. A maximum of 3 public participants will be allowed per meeting.
3. No statements by public participants to the Council shall be allowed unless a written, electronic or oral application has been received by the Chief Executive (Governance Team) by 12.00 noon of the working day prior to the meeting and the Chair's approval has subsequently been obtained. The application shall include the following:
  - name of participant;
  - organisation represented (if any);
  - meeting at which they wish to participate; and matter on the agenda to be addressed.
4. Members of the meeting may put questions to any public participants, relevant to the matter being raised through the chair. Any questions must be asked and answered within the time period given to a public participant. The chair shall determine the number of questions.



# Membership

<b>Chairperson:</b>	Sir T Curtis (Chairman, Te Arawa Lakes Trust)
<b>Deputy Chairperson:</b>	Mayor S Chadwick (Rotorua Lakes Council)
<b>Appointees:</b>	<b>Rotorua Lakes Council:</b> Councillor K Hunt, Deputy Mayor D Donaldson (Alternate) <b>Te Arawa Lakes Trust</b> R Meha, W Emery (Alternate) <b>Bay of Plenty Regional Council</b> Chairman D Leeder, Councillor K Winters, Councillor T Marr (Alternate)
<b>Attendees:</b>	M Workman (Director of Water, Ministry for the Environment )
<b>Committee Advisor:</b>	M Pansegrouw

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Recommendations in reports are not to be construed as policy until adopted.

## Agenda

### 1 Opening Karakia

### 2 Apologies

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### 4 Public Forum

### 5 Acceptance of Late Items

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<b>8</b>	<b>Declarations of Conflicts of Interests</b>	
<b>9</b>	<b>Previous Minutes</b>	
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<b>10</b>	<b>Public Excluded Section</b>	<b>111</b>

#### Resolution to exclude the public

THAT the public be excluded from the following parts of the proceedings of this meeting.

The general subject of each matter to be considered while the public is excluded, the reason for passing this resolution in relation to each matter, and the specific grounds under section 48(1) of the Local Government Official Information and Meetings Act 1987 for the passing of this resolution are as follows:

General Subject of Matter to be Considered	Reason for passing this resolution in relation to this matter	Grounds under Section 48(1) LGOIMA 1987 for passing this resolution
10.1 Recommendations on Low Nitrogen Land Use Fund 2018	To protect the commercial position of an individual	Good reason for withholding exists under Section 48(1)(a)

<b>10.1</b>	<b>Recommendations on Low Nitrogen Land Use Fund 2018</b>	<b>113</b>
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**14 Consideration of General Business**

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# Reports



**Report To:** Rotorua Te Arawa Lakes Strategy Group

**Meeting Date:** 05 April 2019

**Report From:** Chris Ingle, General Manager, Integrated Catchments

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## **Amendments to Rotorua Te Arawa Lakes Strategy Group Agreement and Terms of Reference**

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### **Executive Summary**

The Rotorua Te Arawa Lakes Strategy Group (RTALSG) requested each of the partner organisations to approve amendments to the RTALSG Agreement and Terms of Reference to make provision for a Pou Tākiwaiora. Having attained this agreement the RTALSG is now asked to endorse the amendments and appoint a Pou Tākiwaiora. There are also changes to the Te Arawa Lakes Trust appointments and Ministry for the Environment representative.

### **Recommendations**

**That the Rotorua Te Arawa Lakes Strategy Group:**

- 1 Receives the report, Amendments to Rotorua Te Arawa Lakes Strategy Group Agreement and Terms of Reference;**
- 2 Endorses the following amendments to the Rotorua Te Arawa Strategy Group Agreement:**

**Membership:**

**The membership of the Group shall comprise of six members:**

- 2.1 Two members of the Te Arawa Lakes Trust Entity appointed by that entity who are governance members; and**
- 2.2 Two members of the Bay of Plenty Regional Council appointed by that Council one of whom is the Chairperson of that Council; and**
- 2.3 Two members of the Rotorua Lakes Council appointed by that Council one of whom is the Mayor of that Council.**
- 2.4 Plus one non-voting Pou Tākiwaiora (Chairperson), appointed by the Strategy Group members for a three year term in alignment with the Local Government triennium.**

- 3 Endorses that the additional amendments are reflected in the Rotorua Te Arawa Strategy Group's Terms of Reference.**
- 4 Approves the Guidelines for the Pou Tākiwaiora position.**
- 5 Appoints Sir Toby Curtis as Pou Tākiwaiora of the Rotorua Te Arawa Lakes Strategy Group.**
- 6 Notes the appointment of Roana Bennett as the Te Arawa Lakes Trust member to replace Willie Emery, with Nuki Nicholson appointed as the alternate member.**
- 7 Notes the change in the Ministry for the Environment's representative to the Rotorua Te Arawa Lakes Strategy Group.**

## **1 Background**

This information formed the previous report to 1 November 2018 Council Meeting.

At its meeting on 15 June 2018, Rotorua Te Arawa Lakes Trust Strategy Group's (RTALSG) members recognised the need to ensure RTALSG membership remained effective.

While the Strategy Group members acknowledged the principles of the Agreement at the time it was signed between the three parties, it had not adhered to the requirement of annual rotation of the Chair and felt it appropriate to amend the Agreement's membership to meet current needs.

The Strategy Group therefore supported Te Arawa Lakes Trust's request to consider amending the membership to allow for the appointment of a Chairperson without voting rights, enabling both Te Arawa members to fully participate in the meetings.

Members also discussed the need for RTALSG's Terms of Reference to remain cognisant of changing environmental issues whose impacts should be considered and included in the Strategy Group's function. These included: climate change impacts, lake related biosecurity matters, fisheries bylaw enforcement and Lake Tarawera as a priority lake.

The recommended changes to the Agreement and Terms of Reference were reviewed and supported by the RTALSG Project Steering Group.

The RTALSG's recommendations were presented to the partner organisations for their consideration with subsequent comments and responses brought back to the RTALSG meeting for discussion on 2 November 2018.

While the partner organisations supported the overall recommendations, the Bay of Plenty Regional Council recommended back to the RTALSG to remove the last two bullet points referring to climate change and declining water quality within the specific responsibilities and delegated function of the Terms of Reference (Appendix 2). It was recognised removing the two additional points did not restrict the Strategy Group's ability to identify and discuss such matters.

Rotorua Lakes Council recommended the position of Chairperson be included in the voting membership however it was recognised this would result in an imbalance of membership between the three partner organisations.

The Strategy Group also resolved that Te Arawa Lakes Trust be requested to provide an appropriate title for the independent status of the Chairperson position.

Te Arawa Lake Trust advised the Chairperson title be changed to “Pou Tākiwaiora” - Protector of the water’s health to commemorate esteemed Ngāti Whakaue Kaumātua, Pihopa Kingi.

The role of Pou Tākiwaiora sits outside the voting membership of the Group and therefore is not deemed to be a member for the purposes of a quorum or voting.

The amended RTALSG Agreement is [Appendix 1](#). The amendments have also been reflected in the revised Terms of Reference along with wording changes to provide clarity of meaning ([Appendix 2](#)). The guidelines for the position of Pou Tākiwaiora are shown in [Appendix 3](#).

## **2 Legislation**

RTALSG was established under the Te Arawa Lakes Deed of Settlement. The RTALSG Agreement (2004) forms part of the Relationship Schedule (Schedule 1, Part 1) of the Te Arawa Lakes Deed of Settlement, under the umbrella of the Te Arawa Lakes Claims Settlement Act 2006. The Agreement informs the functions and membership of RTALSG.

On further investigation it is deemed the legislation is not a constraint to changing the Agreement and in fact accommodates amendments so far as they are done in a manner provided for in the Agreement, which requires consensus of all three parties (not including the Crown).

The definition of Rotorua Lakes Strategy Group Agreement as stated in the Te Arawa Lakes Claims Settlement Act 2006 also allows for further amendments to the Agreement if required.

## **3 Rotorua Te Arawa Lakes Strategy Group Agreement**

Section 8.1 of the Agreement enables the Agreement to be amended with the consent of each of the partner organisations.

Under section 8.2 an agreement to amend the RTALSG Agreement will have no effect until recorded in writing and signed by each of the Organisations of the Group.

Section 4.2 and 4.4 of the Agreement identify the Strategy Group’s functions as identifying significant existing and emerging issues affecting the Rotorua Lakes; and the identification, monitoring and evaluation of necessary actions by the Organisations and other relevant organisations. These sections enable the Strategy Group to include emerging environmental issues and the monitoring and evaluation of necessary actions without the need to specifically identify these in the Agreement.

## **4 Change in Te Arawa Lakes Trust Appointee**

Following the Te Arawa Lakes Trust elections in December 2018, advice has been received that a change in TALT's membership on the Strategy Group has occurred.

Roana Bennett has been appointed as a TALT member to replace previous member Willie Emery, and Nuki Nicholson has been appointed as an alternate member.

## **5 Change in Ministry for the Environment Representative**

The Ministry for the Environment Representative to the Rotorua Te Arawa Lakes Strategy Group (RTALSG) has observer status.

A letter dated 4 February 2019, received from MfE Director, Investments and Partnerships - Mana Honohono Shaun Lewis, has indicated MfE Director – Water, Martin Workman will now be MfE's representative on RTALS.

Both Shaun Lewis and Martin Workman will be in attendance at the meeting to assist a seamless handover.

## **6 Next Steps**

Representatives from the three partner organisations will be required to sign the amended RTALSG Agreement following the meeting. This will then replace the Rotorua Lakes Strategy Group Agreement 2004 (renamed Rotorua Te Arawa Lakes Strategy Group in 2009), becomes the defining Agreement and the current Terms of Reference will be updated.

## **7 Budget Implications**

### **7.1 Current Year Budget**

The remuneration of the Pou Tākiwaiora position is currently funded from the Bay of Plenty Regional Council's External Members' budget.

### **7.2 Future Budget Implications**

The remuneration of the Pou Tākiwaiora position is currently funded from the Bay of Plenty Regional Council's External Members' budget.

Yvonne Tatton  
**Governance Manager**

**for General Manager, Integrated Catchments**

**26 March 2019**



# **APPENDIX 1**

## **2019.04.05 Updated Rotorua Te Arawa Lakes Strategy Group Agreement April 2019**



**TE ARAWA LAKES TRUST**

**ROTORUA LAKES COUNCIL**

**BAY OF PLENTY REGIONAL COUNCIL**

**ROTORUA TE ARAWA LAKES STRATEGY  
GROUP AGREEMENT**

Amended 5 April 2019 from the original Agreement dated 8 October 2004

*Amendments are shown in italics*

**THIS AGREEMENT** includes Amendments to the original 2004 Agreement and is made on the 5th day of April 2019 6

**PARTIES: TE ARAWA LAKES TRUST** (previously ARAWA MAORI TRUST BOARD) on behalf of **TE ARAWA**)

**AND: ROTORUA LAKES COUNCIL** (previously known as ROTORUA DISTRICT COUNCIL)

**AND: BAY OF PLENTY REGIONAL COUNCIL**

#### **BACKGROUND:**

- A.** The Parties have established the Rotorua Lakes Strategy Joint Committee (*now known as the Rotorua Te Arawa Lakes Strategy Group*) on the basis set out in the Rotorua Lakes Strategy Co-management Options Report dated October 2001 ("the Report").
- B.** As expressed in the Report the Parties wish to ensure that Te Arawa is a member of the joint committee as of right formalised through Te Arawa's Settlement Legislation, so that the joint committee is a permanent committee, which is not able to be discharged on or following a local authority triennial general election.
- C.** The Deed of Settlement between the Crown and the Arawa Maori Trust Board will record that the Settlement Legislation will provide that:
- (i) the Bay of Plenty Regional Council and the Rotorua District Council will establish, with the Te Arawa Governance Entity, the Rotorua Lakes Strategy Group ("the Group") no later than the Settlement Date;
  - (ii) the Group is deemed to be a joint committee within the meaning of clause 30(1)(b) of Schedule 7 of the Act, despite the Te Arawa Governance Entity's membership of that Group as of right;
  - (iii) despite anything to the contrary in Schedule 7 of the Act, the joint committee is to be permanent and the quorum at meetings of the Group is to be as herein provided.

#### **OPERATIVE PART**

Conditionally upon Settlement Legislation so enabling them, the parties agree as follows:

##### **1 Interpretation**

1.1 In this Agreement:

'Act' means the Local Government Act 2002;

"Organisations" means the Te Arawa Governance Entity (*now known as Te Arawa Lakes Trust*), the Rotorua Lakes Council and the Bay of Plenty Regional Council, sometimes referred to as "Partner Organisations";

"Rotorua *Te Arawa* Lakes" means Lakes Rotorua, Rotoiti, Rotoehu, Rotorua, Okataina, Tikitapu, Okareka, Tarawera, Rotomahana, Rerewhakaaitu, Okaro.<sup>1</sup>

- 1.2 Unless the context requires otherwise, terms or expressions defined in the Deed of Settlement between the Crown and Te Arawa and the Settlement Act have the same meaning in this Agreement.

## 2 Membership

The membership of the Group shall comprise:

- 2.1 *Two members of the Te Arawa Lakes Trust Entity appointed by that entity - who are governance members; and*
- 2.2 Two members of the Bay of Plenty Regional Council appointed by that Council one of whom is the Chairperson of that Council; and
- 2.3 Two members of the Rotorua Lakes Council appointed by that Council one of whom is the Mayor of that Council.

*Plus one non-voting Poū Tākiwaiora (Independent Chairperson) appointed by the members for a three year term in alignment with the Local Government triennium and is to be reviewed and confirmed at the first meeting of the Group following the local government elections.*

*The Poū Tākiwaiora is not deemed to be a member of the Rotorua Te Arawa Lakes Strategy Group for the purposes of a quorum.*

*The Poū Tākiwaiora shall assume the role and responsibilities as defined in the Rotorua Te Arawa Lakes Strategy Group Poū Tākiwaiora Guidelines.*

## 3 Quorum

- 3.1 The ordinary quorum for a meeting of the Group will be one member from each of the Organisations.
- 3.2 The special quorum for a meeting of the Group will be four members of the Group.
- 3.3 In the event that the ordinary quorum is not satisfied at three consecutive meetings of the Group in circumstances , where in the case of each such meeting:
- 3.3.1 It was notified in accordance with the Standing Orders;
- 3.3.2 Order papers were sent to each member of the Group in accordance

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<sup>1</sup> Notes the deletion of Lake Rotokakahi as from the original Agreement as Rotorua Te Arawa Lakes Strategy Group has no jurisdiction over this lake.

- 3.3.3 The meeting had not been cancelled for any reason, then the
- 3.3.4 member in attendance may declare the third meeting inquorate according to the Standing Orders and the special quorum will then be substituted.
- 3.4 At any subsequent meeting, the ordinary quorum will be restored as soon as clause 3.1 is satisfied.
- 3.5 No matters that were not on the order paper for the meeting at which the special quorum was established under clause 3.3 can be considered by a special quorum meeting.

#### **4 Functions**

The Group will initially have the following functions:

- 4.1 The provision of leadership to the Organisations and the community in relation to implementation of the *Vision and Strategy for the Lakes of the Rotorua District*;
- 4.2 The identification of significant existing and emerging issues affecting the Rotorua Lakes;
- 4.3 The preparation, approval, monitoring, evaluation and review of agreements, policies and strategies to achieve integrated Outcomes for the Rotorua Lakes;
- 4.4 The identification, monitoring and evaluation of necessary actions by the Organisations and other relevant organisations;
- 4.5 The receiving of reports on activities being undertaken by the Organisations and other relevant organisations;
- 4.6 Involvement during the preparation of statutory plans in relation to significant issues. Such plans include but are not limited to iwi and hapu management plans, district and regional plans, reserve management plans, and annual plans;
- 4.7 Involvement in applications for activities in relation to significant issues not addressed by existing policies of the co-management partners. Such activities include but are not limited to resource consents, designations, heritage orders, water conservation orders, restricting access to the lakes (during special events or in particular circumstances), and transferring and/or delegating of statutory authority.

## **5 Prior committee discharged**

- 5.1 Contemporaneously with the establishment of the Group the Bay of Plenty Regional Council and the Rotorua District Council will discharge, pursuant to clause 30(5) of Schedule 7 of the Act, the joint committee known as the Rotorua Lakes Strategy Joint Committee.

## **6 Standing Orders**

- 6.1 The New Zealand Standard Model Standing Orders for Meetings of Local Authorities and Community Boards (NZS9202:2003) will apply to the Group unless the members of the Group unanimously agree to vary those orders as they apply to the Group ("*Standing Orders*").
- 6.2 An agreement to vary the Standing Orders as they apply to the Group will have no effect until recorded in writing and signed by each of the members of the Group.

## **7 Te Arawa Governance Entity to execute Covenant**

- 7.1 The Arawa Maori Trust Board will procure the execution by the Te Arawa Governance Entity of a deed of covenant in the form set out in Schedule 3 of the Deed of Settlement.

## **8 Amendments to this agreement**

- 8.1 This agreement may be amended with the consent of each of the Organisations of the Group.
- 8.2 An agreement to amend this agreement will have no effect until recorded in writing and signed by each of the Organisations of the Group.
- 8.3 Amendments as italicised in this Agreement are agreed to by and on behalf of the entity below.

**IN WITNESS WHEREOF** those present have been executed the day and year first hereinbefore written.

**EXECUTED** for and on behalf of **TE ARAWA LAKES TRUST**  
by its authorised signatories:

Trust Chairman

Chief Executive

**EXECUTED** for and on behalf of **ROTORUA LAKES COUNCIL**  
by its authorised signatories:

Mayor

Chief Executive

**EXECUTED** for and on behalf of **BAY OF PLENTY REGIONAL COUNCIL**  
by its authorised signatories:

Chairman

Chief Executive



## **APPENDIX 2**

### **2019.04.05 Updated Rotorua Te Arawa Lakes Strategy Group Terms of Reference**





# Rotorua Te Arawa Lakes Strategy Group Terms of Reference

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## Interpretation

*“Organisations” means the Te Arawa Lakes Trust, the Rotorua Lakes Council, and the Bay of Plenty Regional Council; sometimes referred to as “Partner Organisations”.*

*“Rotorua /Te Arawa Lakes” means Lakes Rotorua, Rotoiti, Rotoehu, Rotomā, Ōkātina, Tikitapu, Ōkāreka, Tarawera, Rotomahana, Rerewhakaaitu, Ōkaro.*

*“Group” means the Rotorua Te Arawa Lakes Strategy Group, formed as a Joint Committee under Clause 30 of Schedule 7 of the Local Government Act 2002; sometimes referred to as the “Strategy Group”.*

## Purpose

The purpose of the Group is to contribute to the promotion of the sustainable management of the Rotorua Te Arawa Lakes and their catchments, for the use and enjoyment of present and future generations, while recognising and providing for the traditional relationship of Te Arawa with their ancestral lakes.

## Membership

The membership of the Group comprises of six members:

- Two members of the Te Arawa Lakes Trust Entity appointed by that entity - who are governance members; and
- Two members of the Bay of Plenty Regional Council appointed by that Council - one of whom is the Chairperson of that Council; and
- Two members of the Rotorua Lakes Council appointed by that Council - one of whom is the Mayor of that Council.

Plus one non-voting Poū Tākiwaiora (Independent Chairperson) appointed by the members for a three year term in alignment with the Local Government triennium and is to be reviewed and confirmed at the first meeting of the Group following the local government elections.

The Poū Tākiwaiora is not deemed to be a member of the Rotorua Te Arawa Lakes Strategy Group for the purposes of a quorum.

The Poū Tākiwaiora shall assume the role and responsibilities as defined in the Rotorua Te



Arawa Lakes Strategy Group Poū Tākiwaiaora Guidelines.

The Deputy Chairperson shall be appointed from the membership at the first meeting of the Group following the local government elections.

## **Quorum**

The quorum for a meeting of the Group will be one appointed member from each of the partner organisations

The special quorum for a meeting of the Group will be four members of the Group.

In the event that the ordinary quorum is not satisfied at three consecutive meetings of the Group in circumstances, where in the case of each such meeting:

- It was notified in accordance with the Standing Orders;
- Order papers were sent to each member of the Group in accordance with the Standing Orders; and
- The meeting had not been cancelled for any reason, then the members in attendance may declare the third meeting inquorate according to the Standing Orders and the special quorum will then be substituted.

At any subsequent meeting, the ordinary quorum will be restored

No matters that were not on the order paper for the meeting at which the special quorum was established can be considered by a special quorum meeting.

## **Term of the Committee**

The Rotorua Te Arawa Lakes Strategy Group is a permanent joint committee established under the Te Arawa Lakes Settlement Act 2006 (Te Arawa Lakes Deed of Settlement - Cultural Redress: Lakes Management and Relationships, clauses 9.1 to 9.3 -December 2004) and is not disestablished as a consequence of a local government election.

The Group's Terms of Reference are derived from the Rotorua Lakes Strategy Agreement included in Part 1 of the Relationship Schedule to the Deed of Settlement, December 2004.

## **Specific Responsibilities and Delegated Functions**

The Group has the following functions:

- Provide leadership to the Organisations and the community in relation to implementation of the Vision and Strategy for the Lakes of the Rotorua District originally adopted in 2000 and refreshed version adopted by the Strategy Group in 2013.
- Identify significant existing and emerging issues affecting the Rotorua Te Arawa Lakes and respond appropriately.
- Approve, monitor, evaluate, and review agreements, policies and strategies and all other proposals to achieve integrated outcomes for the Rotorua Te Arawa Lakes.



- Identify, monitor, and evaluate necessary actions by the partner organisations and other relevant organisations.
- Receive reports on activities being undertaken by the partner organisations and other relevant organisations.
- Participate in the preparation of statutory plans in relation to significant issues. Such plans include but are not limited to Iwi and hapū management plans, district and regional plans, reserve management plans and annual plans.
- Participate in applications for activities in relation to significant issues not addressed by existing policies of the partner organisations. Such activities include but are not limited to resource consents, designations, heritage orders, water conservation orders, restricting access to the lakes (during special events or in particular circumstances), and transferring and/or delegating of statutory authority.

### **Power to Recommend**

To the partner organisations on any matters within the Strategy Group's delegated functions as it deems appropriate.

The Rotorua Te Arawa Lakes Strategy Group report directly to their own Organisations.



## **APPENDIX 3**

### **2019.04.05 Rotorua Te Arawa Lakes Strategy Group Pou Takiwaiora Guidelines**





## **Guidelines for the Rotorua Te Arawa Lakes Strategy Group (RTALSG) Pou Tākiwaiora (Independent Chair)**

**The Pou Tākiwaiora is a non-voting member and is not deemed to be a member for the purposes of a quorum.**

The Pou Tākiwaiora will be responsible for the chairing of meetings in a competent, professional and efficient manner, adhering to tikanga which includes:

- Chair meetings in accordance with the RTALSG's Terms of Reference.
- Attend and chair between 6-8 face to face meetings per year of around 2-3 hour duration held in Rotorua, RLC Chambers.
- Participate in the setting of the RTALSG agenda where required.
- Be well prepared for meetings.
- Ensure that adequate time is available for discussion of all agenda items, in particular strategic issues.
- Encourage open communication, meaningful participation and constructive dissent at meetings
- Declare and appropriately manage own conflict of Interests.

The Pou Tākiwaiora will:

- Act in a manner which positively enhances the strategic vision, goals, aspirations and performance of RTALSG.
- Have a strong understanding of tikanga and demonstrate cultural competence relevant to Te Arawa.
- Support effective communication and relationships between the RTALSG Partners.
- Promote a culture of openness and debate.
- Adhere to strict confidentiality of all material and will not disclose any confidential information to any third party without express permission from the RTALSG Partners.

As the administering body the Bay of Plenty Regional Council (BOPRC) will:

- Provide a copy of the RTALSG Terms of Reference.
- Provide Secretariat support to the RTALSG and Pou Tākiwaiora – this includes working with the Pou Tākiwaiora in the preparation of the Agenda and in drafting the Minutes for approval etc.
- Ensure that the RTALSG Partners receive accurate, timely and clear information.
- Provide a briefing for the Pou Tākiwaiora ahead of meetings including a heads up on any contentious items.
- Provide an opportunity for a post meeting conversation to discuss any matters that arose during the meeting and to plan for future meetings.
- Pay the Pou Tākiwaiora a Meeting Fee for every meeting attended in line with the BOPRC Elected Members and Appointed Members Expenses Policy
- Raise at the earliest opportunity any concern with the performance of the Pou Tākiwaiora to enable early resolution.

The appointment of the Pou Tākiwaiora is to be reviewed and appointed every three years in alignment with the Local Government triennium.



# Previous Minutes



# Minutes of the Rotorua Te Arawa Lakes Strategy Group Meeting held in The Council Chamber, Rotorua Lakes Council, Civic Administration Building, 1061 Haupapa Street, Rotorua on Friday, 2 November 2018 commencing at 9.40 a.m.

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## Present:

**Chairman:** Sir Toby Curtis - Chairman, Te Arawa Lakes Trust

**Deputy Chairman:** Mayor Steve Chadwick, Rotorua Lakes Council

**Appointees:** Willie Emery - Te Arawa Lakes Trust, Cr Karen Hunt - Rotorua Lakes Council, Chairman Doug Leeder, Cr Kevin Winters - Bay of Plenty Regional Council

**In Attendance:** Shaun Lewis - Director, Mana Honohono – Investments and Partnerships, Ministry for the Environment; Geoff Williams – Chief Executive, Rotorua Lakes Council; Professor Troy Baisden, Chair In Lake and Freshwater Science, University of Waikato

Bay of Plenty Regional Council: Chris Ingle – Integrated Catchments Manager, Fiona McTavish – Chief Executive, Helen Creagh – Rotorua Catchments Manager, Shari Kameta - Committee Advisor, Yvonne Tatton - Governance Manager, Andy Bruere – Lake Operations Manager, Ruth Feist – Team Leader, Integrated Planning, Anna Grayling – Principal Advisor Rotorua Catchments, Shane Grayling – Biosecurity Team Leader, Ruth Keber – Marketing and Communications Advisor, Karla Kereopa – Rotorua Catchments Coordinator, Jude Pani - Rotorua Catchments Advisor

**Apologies:** R Meha - Te Arawa Lakes Trust

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## 1 Karakia

Provided by Willie Emery.

## 2 Apologies

### Resolved

That the Rotorua Te Arawa Lakes Strategy Group:

- 1 Accepts the apology from Raina Meha tendered at the meeting.

Winters/Chadwick  
CARRIED

### 3 **Public Forum**

Nil

### 4 **Acceptance of Late Items**

Nil

### 5 **General Business**

- 1) Strategic Discussion on Land Interventions

### 6 **Declaration of Conflicts of Interest**

Nil

### 7 **Previous Minutes**

#### 7.1 **Rotorua Te Arawa Lakes Strategy Group Minutes - 15 June 2018**

#### **Resolved**

That the Rotorua Te Arawa Lakes Strategy Group:

- 1 **Confirms the Rotorua Te Arawa Lakes Strategy Group Minutes - 15 June 2018 are a true and correct record.**

Leeder/Hunt  
CARRIED

### 8 **Reports**

#### 8.1 **University of Waikato Chair In Lake and Freshwater Science Annual Report 2017-2018**

*Refer PowerPoint Presentation (Objective ID [A3032626](#))*

Professor Troy Baisden provided the Chair's In Lake and Freshwater Science Annual Report and gave a presentation on the future direction of the Chair's programme.

#### Key Points:

- Provided background on past successes of the programme and emphasized the value of independence being essential to the progress of the University's model, which would continue to focus on science to reflect the desired information and fundamental needs of people.
- Outlined a model and principles to target leadership, knowledge and insights for catchment science that would lead to better outcomes and provide for more engagement, trust and transparency.
- Programme development would incorporate tracers and catchment models to build on the existing programme to understand what was happening with freshwater.

- Current work included: Plan Change 10 science review on total nitrogen loads to Lake Rotorua, building capability and tools to communicate and identify information on algal blooms to grow community understanding (anticipated in January-February 2019), a focus on Trophic Level Indexes (TLIs) and excess of phosphorus.
- Highlighted the challenges to understand tracers for freshwater flows and impacts from soil, which would take several years.
- Sought feedback from the Strategy Group on the new flagship programme.

In response to questions:

- Professor Baisden advised that geothermal phosphorus was an important source that needed to be better identified and understood and that preliminary data was being gathered on tracers to better evaluate and understand heat flow processes.
- Noted potential to work with GNS Science on identifying and understanding mass balance activity and variability across the region.
- Professor Baisden had a high level of confidence in the PC10 nitrogen science information and assumption inputs.
- Considered alum dosing and land use intervention should continue, with principles and values fundamental to investment decisions.
- Saw building capability within the Lake Chair's programme to enable Te Arawa's journey of leadership, more engagement, new science and creation of a new 5-year flagship programme as important.

Members' Comments:

- Saw the principles outlined as important and supported further discussion on developing science outcomes.

## Resolved

**That the Rotorua Te Arawa Lakes Strategy Group:**

- 1 Receives the presentation and report, University of Waikato Chair In Lake and Freshwater Science Annual Report 2017-2018.**
- 2 Notes it values the contribution of the University of Waikato's Science programme to lake water quality and restoration so far and supports in principle an application to the Endeavour Fund to continue this programme.**

**Chadwick/Winters  
CARRIED**

## Order of Business

The Chair permitted a presentation on Lake TLIs that was part of agenda item 8.7, to be received next on the agenda, as the information correlated with the preceding item.

## 8.2 Presentation on Lake TLI Progress 2017/18

Refer PowerPoint Presentation (Objective ID [A3011287](#)).

Lake Operations Manager Andy Bruere gave a presentation on progress of Lake TLIs for the 2017/18 year.

### Key Points:

- TLI targets for the 12 lakes had not been met due to: record rainfall and high lake levels bringing more nutrients from erosion and leaching, long stratification periods in shallower lakes, unusual stratification periods in deeper lakes and consistent patterns of change in all lakes, indicating climate effects.
- Other non-TLI indicators had recorded improvement for Lakes Okareka and Rotoiti, where oxygen depletion rates were slower, therefore more resilient to stratification of nitrogen and phosphorus releases.
- Outlined the status for each of the Rotorua lakes and work programmes scheduled to understand the issues.

### In response to Questions:

- Hornwort had not been detected at Lake Okareka for the last three years.
- The overlay of extreme weather events had likely brought more in-lake nutrients.
- The dashboard on page 93 of the agenda provided an overall project snapshot, which differed to the status of TLI indexes.
- Emphasized Professor Baisden's comments on natural occurrences and variability in-lake and the need to progress further understanding on lake science.
- An update would be provided to the Strategy Group following the research workshop scheduled for Lake Rotoehu.

### Members' Comments:

- Acknowledged the improvement in the TLI status update, which clarified the status and steps that should be taken.

11:02 am – the meeting **adjourned** and **reconvened** at 11:08 am.

## 8.3 Amendments to the Rotorua Te Arawa Lakes Strategy Group Agreement and Terms of Reference

General Manager Integrated Catchments Chris Ingle and Governance Manager Yvonne Tatton provided the report that sought consideration of a change to the Terms of Reference and membership.

### Key Points:

- Highlighted the agreement could only be changed with the consent of the partner organisations.



- Rotorua Lakes Council and Bay of Plenty Regional Council had considered the report and raised the following issues:
  - Rotorua Lakes Council questioned the non-voting rights of the Independent Chair however, had supported the changes proposed.
  - Bay of Plenty Regional Council questioned the proposed wording of an “Independent” Chair and additional functions on climate change and water quality and had left the matter to be considered at their next meeting.
- Further to both councils’ responses, it was noted that the original wording of specific responsibilities and delegated function within the Terms of Reference did not constrain the Strategy Group from including climate change and water quality matters on the agenda.
- Clarified that the Deed of Settlement did not allow for a change in membership to include the addition of a voting chair, beyond the existing membership.
- Sought the Strategy Group’s feedback to make further revisions for reporting to the partner organisations for ratification.

#### Members’ Comments:

- Noted the previous resolutions of the Strategy Group, which had sought an independent non-voting Chair to officiate meetings.
- Considered the mana of Te Arawa and the individual were key attributes of the Independent Chair.
- Supported the overall recommendations, with a further amendment to remove the last two bullet points within the specific responsibilities and delegated function of the Terms of Reference (Appendix 2) and retention of recommendation six (6).

## **Resolved**

### **That the Rotorua Te Arawa Lakes Strategy Group:**

**1 Receives the report, Amendments to the Rotorua Te Arawa Lakes Strategy Group Agreement and Terms of Reference.**

**2 Endorses the following amendment to the Rotorua Te Arawa Strategy Group Agreement and reflected in the Terms of Reference:**

**2. Membership:**

**The membership of the Group shall comprise of six members:**

**2.1 Two members of the Te Arawa Lakes Trust Entity appointed by entity one of whom is a governance member and one of whom is a senior executive; and**

**2.2 Two members of the Bay of Plenty Regional Council appointed by that Council one of whom is the Chairperson of that Council; and**

**2.3 Two members of the Rotorua Lakes Council appointed by that Council one of whom is the Mayor of that Council.**

- 2.4 Plus one non-voting Independent Chairperson appointed by the members for a three year term in alignment with the Local Government triennium.**
- 2.5 Requests Te Arawa Lakes Trust to provide an appropriate title for the Independent Chairperson position.**
- 3 Approves the additional amendments to the Rotorua Te Arawa Strategy Group's Terms of Reference (outlined in Appendix 2), with the removal of references to climate change and water quality under Specific Responsibilities and Delegated Functions and that these be referred back to the partner organisations for ratification.**
- 4 Appoints Sir Toby Curtis as the Independent non-voting Chairperson of the Te Arawa Lakes Strategy Group for the period up to the first meeting following the 2019 local government elections to align the three year term to the Local Government triennium.**
- 5 Acknowledges the appointment of Willie Emery as the Te Arawa Lakes Trust's governance member.**
- 6 Instruct partner Organisation staff to include the following matters as agenda items where appropriate: climate change impacts, lake related biosecurity matters, fisheries bylaw enforcement, Lake Tarawera as a priority lake.**

Leeder/Chadwick  
CARRIED

#### **8.4 Te Arawa Lakes Trust - Request for Funding for Programme Participation**

Te Arawa Lakes Trust (TALT) Chief Executive Karen Vercoe and Manager – Environment Nicki Douglas presented the report.

##### Key Points:

- TALT commercial entity had self-funded prior participation in the lakes programme and increased its capacity and wanted to strengthen its participation, therefore wished to seek funding assistance from the programme.
- TALT had provided a clear message within the programme to strengthen its participation and was in a strong position to deliver programme outcomes for Te Arawa.
- Noted the significant value of the work that TALT was delivering, which would not occur without its partnership.
- Confirmed the current work programme had been signed off with the next work programme to be endorsed in May 2019.

##### In response to questions:

- Advised that formal discussion had not taken place with Te Tatau o Te Arawa (TToTA) on this matter, but that work was occurring to formalise a Memorandum of Understanding with TToTA.

Members' Comments:

- Acknowledged the substantial value of TALT's participation in the programme, which under resourcing needed to be addressed.
- Considered the matter required further consideration by the partner organisations and Ministry for the Environment (MfE), with the potential to consider two funding options either via MfE deed funding allocation or funding outside the deed-funded lakes.
- Requested the partner organisation Chief Executives and Ministry for the Environment Deputy Secretary Partnerships and Customs meet to agree on a proposal to be brought back to the partner organisations by March 2019, noting the need to articulate clearly the considerable work being undertaken by TALT.

**Resolved****That the Rotorua Te Arawa Lakes Strategy Group:**

- 1 Receives the report, Te Arawa Lakes Trust - Request for Funding for Programme Participation.**
- 2 Recommend the proposal go back to the partner organisations to consider that Te Arawa Lakes Trust receive funding to implement the outcomes as identified within the Lakes programme.**
- 3 Request the Chief Executives of the three partner organisations and the Deputy Secretary Partnerships and Customs meet to agree a proposal to put to the partner organisations by March 2019 to address Te Arawa Lakes Trust's funding request.**

**Chadwick/Winters  
CARRIED**

**8.5 Te Arawa Lakes Trust Update Report**

Manager – Environment Nicki Douglas highlighted points from the report.

Key Points:

- Noted the appointment of William Anaru to the role of Hunga Hika ahi – Hapori and the substantial impact he had made on community coordination within the catchment. Mr Anaru would provide an update to the Strategy Group in the New Year.
- Te Arawa Climate Change Working Group had hosted Minister James Shaw on 11 October and was interested in the working group's proposals to support the climate change programme.
- Highlighted TALT's focus on community engagement.

In response to questions:

- TALT had contributed \$130K to the current work programme from TALT's commercial funding dividends, which did not include work in kind that had been provided.

### Members' Comments

- Commended TALT's hands on approach, active management and endeavours to reduce catfish populations.
- Recognised the contribution TALT provided to both Councils' work programmes.

### **Resolved**

**That the Rotorua Te Arawa Lakes Strategy Group:**

- 1 Receives the report, Te Arawa Lakes Trust Update Report.**

**Hunt/Winters  
CARRIED**

## 8.6 **Update Report from Rotorua Lakes Council**

*Refer PowerPoint Presentation (Objective ID [A3044543](#))*

Geoff Williams gave a presentation highlighting key activities from the report.

### Key Points:

- Outlined the design concept for the new Rotorua Wastewater Treatment Plant, noting options were being investigated on overseas partnerships. The proposal would be reported to Rotorua Lakes Council the following week.
- Provided an aerial view of the Rotoma/Rotoiti Sewerage Scheme, which would comprise a treatment station below ground level with no impact on the natural environment and amenity values.
- Significant work was taking place on the Tarawera reticulation scheme and the cultural impact assessment which was being facilitated by Te Arawa Lakes Trust.
- Noted the work of the Plan Change 10 (PC10) Natural Capital Group.
- Work was commencing on a programme of actions for the Rotorua Spatial Plan blueprint on future land use.

### In response to questions:

- The Rotoma/Rotoiti Sewerage Scheme was on time and expected to be within budget however some aspects of the project, such as piping to households was driving costs, with alternative solutions being investigated.
- A step system or biolytic was being explored for some properties' onsite treatment which would be resolved through a tender process and provide further clarity of costs for consideration.

### Members' Comments:

- Considered every effort must be made for the Rotoiti/Rotoma Sewerage scheme to be constructed as proposed and that any retraction to the original scope should be communicated to the funding partners.

- Looked forward to a fully funded scheme and a further update on the Rotoiti/Rotoma Sewerage scheme.

Staff Comments:

- In response to a request, staff advised that it was not appropriate for the Strategy Group to receive a presentation on the Alternative Natural Capital Allocation while PC10 was before the Environment Court.

## **Resolved**

**That the Rotorua Te Arawa Lakes Strategy Group:**

- 1 Receives the report, Update Report from Rotorua Lakes Council.**

**Leeder/Winters  
CARRIED**

## **8.7 Programme Status Report and 2017-2018 Annual Report**

The report provided an update on progress of the Rotorua Te Arawa Lakes Programme and sought approval of the 2017-2018 Annual Report. The report was taken as read without further discussion.

## **Resolved**

**That the Rotorua Te Arawa Lakes Strategy Group:**

- 1 Receives the report, Programme Status Report and 2017-2018 Annual Report.**
- 2 Approves the 2017-2018 Annual Report for submission to the Minister for the Environment, in accordance with the requirements of the Deed of Funding.**

**Leeder/Hunt  
CARRIED**

## **Order of Business**

Due to time constraints and impending departure of members, the General Business item was taken next on the agenda.

## **9 General Business item**

### **9.1 Strategic Discussion on Land Interventions**

Discussion followed on the need to revisit the strategic direction of current land interventions and whether they were providing the necessary outcomes in nitrogen reduction for the Rotorua Lakes.

Members' Comments:

- Needed to be informed by science and further discuss how to go about reviewing and looking at the best solutions, noting a change proposal for Crown funding had been approved before.
- Supported an adaptive management approach looking at the bigger picture.

In response to questions:

- Ministry for the Environment Director Mr Shaun Lewis advised the pathway for a change proposal to the Deed of Funding would require Ministerial or Cabinet sign-off depending on the threshold and using best available information.

Staff Follow-Up:

- A report to be provided to a future meeting on a way forward.

12:18 pm – Mayor Chadwick, Councillor Karen Hunt and Mr Shaun Lewis **withdrew** from the meeting.

10 **Quorum Failure**

Due to a lack of quorum, the meeting lapsed with the remaining item of business - agenda item 8.8, 'Changing the On-site Effluent Treatment Regional Plan - implications for Rotorua Te Arawa Lakes' adjourned and carried over to the next meeting.

**The meeting closed at 12:18 pm.**

**CONFIRMED:**

\_\_\_\_\_  
Chairperson

# Reports continued





**Report To:** Rotorua Te Arawa Lakes Strategy Group

**Meeting Date:** 05 April 2019

**Report From:** Chris Ingle, General Manager, Integrated Catchments

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## **Rotorua Te Arawa Lakes Programme - Status Update and 6 Month Report (2018-2019)**

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### **Executive Summary**

The report below provides an update on Rotorua Te Arawa Lakes Programme progress since the last meeting of the Strategy Group in November 2018, as well as the continued response to the Catfish incursion on both Lakes Rotoiti and Rotorua.

It also seeks approval for the 6 Month Report 2018-2019, which is to be provided to the Minister in accordance with the Deed of Funding for the Programme. The approval of a Change Request to shift funds between interventions on Lake Rotorua in the current financial year is also requested.

### **Recommendations**

**That the Rotorua Te Arawa Lakes Strategy Group:**

- 1 Receives the report, Rotorua Te Arawa Lakes Programme - Status Update and 6 Month Report (2018-2019);**
- 2 Approves the 2018-2019 Six Month Report for the Programme, for submission to the Minister for the Environment;**
- 3 Approves Change Request 64 to move funds from the Lake Rotorua Incentives Scheme to the Gorse Conversion Project for the current financial year, noting that the total spend of either project over their life will not be affected.**

### **1 Programme Status Report**

Appendix One includes a Dashboard Status Report for the Programme. Interventions and water quality measurements are on track in Lakes Ōkāreka, Rototiti and Rotorua. As the committee are aware there is declining water quality in Lakes Tarawera and Rotoehu. More detailed updates on each lake are provided below.

As shown in the dashboard, financial and schedule status for the Programme is amber. The schedule is amber due to the delay in decisions on the Low Nitrogen Land Use Fund Round Two and lack of weed harvesting on Rotoehu again. Underspends in those projects and the Incentives Scheme leads to an amber rating for financial status.

### **Lake Rotoehu**

No weed harvesting will occur again this year due to a lack of weed growth, resulting from a dominance in algae in the lake. A health warning on Lake Rotoehu remains due to a continued algal bloom.

A number of complaints have been received from residents of Rotoehu about the poor water quality and smell emanating from the lake, particularly in the last few weeks. It is likely that this ongoing bloom on the lake has not been helped by the warm summer we have experienced this year.



*Figure 1: Lake Rotoehu. Photo Credit: Debbie Bly*

A workshop was held late last year, seeking advice from technical experts on how to deal with the continuing poor water quality at Lake Rotoehu and expert advice is to focus on adjusting the location of alum dosing on the lake. This will require some trials to be undertaken with equipment but also a resource consent which will take time to work through.

### **Lake Rotorua**

The Incentives Scheme has achieved slightly over 20 tonnes of its 100 tonne target and has identified another 25 tonnes in its pipeline which could be achieved within the next two years.

The first round of Plan Change 10 hearings has closed, taking only one week of the two scheduled. Closing statements are to be circulated and then the Judge will issue an interim decision before deciding how to hear the remaining appeals of Federated Farmers.

Recommendations from Round Two of the Low Nitrogen Land Use Fund are awaiting consideration of the Strategy Group at this scheduled April meeting.

All large areas of gorse in the Lake Rotorua catchment are now managed, with 188 hectares secured under the Gorse Conversion Project and a further 27 hectares very close. What remains are small patchy areas which will deliver diminishing returns for investment in conversion. Moving forward, staff intend to focus on other aspects of the Integrated Framework to deliver nitrogen reductions, as detailed in the Annual Work Programme for 2019-2020, but still work with landowners to manage gorse in perpetuity on the small areas remaining where there is willing landowner participation.

The Advice and Support Service continues to make good progress. Most properties over 40 hectares (who require resource consent now) are enrolled. At the time of writing, 17 resource consents have been granted under Plan Change 10 and several more are in process. A number of properties over 40 hectares have also been confirmed as permitted activities. This means that around a third of properties over 40 hectares have already met their requirements under Plan Change 10.

Staff will continue with implementation of Plan Change 10, with the aim of having all properties either consented, identified as permitted or referred for compliance by mid-year.

### **Lake Rotoiti**

Works are due to commence on the stiffening whaler for the Ohau Wall to manage the effects of corrosion of the wall.

The remaining lakeside reticulation for Lake Rotoiti is making good progress and is due to be completed in April 2019.

Work to manage the catfish incursion on Lakes Rotoiti and Rotorua continues and an update on this work is provided separately below.

### **Lake Ōkāreka**

The Lake Ōkāreka further land use change project is making excellent progress. To date the land use change project has secured the conversion of 53 hectares of gorse and pasture to mānuka. Staff are now working on another agreement which will secure a further 51 ha of new planting and protect 24.5 ha of reverting native. These two agreements will complete the project and the interventions for Ōkāreka and a long term monitoring period will ensue - which we hope will demonstrate the desired improvement in the TLI score in the lake.

Work has commenced on the Waitangi Stream erosion repairs to protect stream banks from the higher flows that have been necessary over the last year to respond to exceptionally high lake levels in Lake Ōkāreka.

### **Lake Tarawera**

The Strategy Group is aware of the declining water quality at Tarawera and the actions in the catchment to address this, as set out in the Restoration Plan for the Tarawera catchments. All of the actions in that plan are either underway or complete and recent progress on a couple of key actions is detailed below.

Te Arawa Lakes Trust have taken responsibility for leading next steps, subsequent to the Restoration Plan, for the Tarawera catchments and are working with The Nature Conservancy to seek their support in the catchment to run a community engagement process over the next financial year. Nicki Douglas can provide more information on this in her update.

Update on key Restoration Plan projects:

- The Tarawera Farm Environment Plan Project which was led by Project Rerewhakaaitu with support from the Regional Council, Fonterra and Beef and Lamb NZ has now been completed. Appendix Two provides an Executive Summary on the project and its deliverables, from a paper that was recently presented at the Fertiliser and Lime Research Centre Conference in Palmerston North.

Chris Sutton (Project Rerewhakaaitu) and Simon Park (Project Manager) will be present at this meeting to speak to the Strategy Group. 48 plans were developed for the Inner and Outer Catchments of Lake Tarawera as part of the project, which represents most farms in the catchment. The implementation of those Plans is now underway with support from the Regional Council being provided to landowners to implement the actions identified within each Plan.

- Acacia removal at the base of Mount Tarawera will commence shortly again for the coming winter. This project complements the wilding pine removal which occurs on the mountain over summer, with those employed transiting between the projects between seasons.
- The preferred option for Tarawera Sewerage Reticulation for Lake Tarawera has been adopted unanimously by the Tarawera Residents and Ratepayers Association. A Cultural Impact Assessment is now being prepared for the various reticulation options available, and its development is being led by the Te Arawa Lakes Trust, this assessment will inform the next steps with the scheme.

## **2. Catfish Incursion Management Update**

The discovery of Brown Bullhead Catfish in Lake Rotorua in December 2018 has resulted in a focus on netting in Lake Rotorua over the summer period. To date, 170 catfish have been caught across the lake stretching from the Ōhau Channel to Whittaker Road near the Rotorua CBD.

The majority of the catfish caught have been male adults, with only four females caught. However, this does mean there is potential for catfish to breed in this lake.

Approximately 15,750 catfish have been caught in Lake Rotoiti and Lake Rotorua over the 2018/19 season, comparing to 2,162 at this time in the 2017/18 season.

The acoustic tracking trial is underway, with 30 catfish tagged in Lake Rotoiti, along with spawning disruption surveys undertaken by NIWA which aims to investigate and disturb spawning sites of catfish. eDNA water sampling has proven successful at determining the presence of catfish in enclosed bays with very high catfish numbers, but still needs to be tested at other sites where catfish are less common. When this is refined for larger water bodies, the method will be incorporated into the surveillance programme for the Rotorua lakes. A pheromone bait trial is currently underway in Te Weta Bay in an attempt to attract more catfish into nets.

Te Arawa Lakes Trust are co-ordinating the volunteer netting program which has resulted in over 2,000 catfish being caught by members of the public. The group of volunteers has grown to over 100 and has allowed for netting to be undertaken in Lakes Rotoiti, Rotorua, Rotoehu, Ōkāreka and Tarawera. The program has provided valuable information to Regional Council while also engaging the public on this issue.

A comprehensive communications campaign is underway over the busy summer and autumn periods and is targeting both local and out of town lake users. Advertisements are in place in magazines and online while a significant amount of collateral is being distributed by staff and volunteers over the summer months.

### **3. Change Request**

Approval is sought from the Strategy Group for the change request attached in Appendix Three. The change request seeks to transfer funds from the Incentives Scheme (forecast underspend) for the current financial year to the Gorse Conversion Project (forecast overspend), to pay out a final large gorse agreement and complete the majority of conversion under the gorse scheme.

The transfer of funds as requested will not result in the total spend of either project being different over its life.

### **4. Six Month Report (2018-2019)**

A Six Month Report for the 2018-2019 financial year has been prepared in accordance with the requirements of the Deed of Funding for the Programme and is included in Appendix Four. This Report has been approved by the Programme Steering Group and now requires approval from the Rotorua Te Arawa Lakes Strategy Group to be submitted to the Minister in accordance with the Deed of Funding requirements.

A detailed summary of the Six Month Report isn't provided here as the Status Report above has covered most salient points. However, the Group will note that, as previously advised, construction of the Tikitere Zeolite Plant has now been cancelled and the Gorse Programme has converted all large blocks of gorse in the catchment.

It is recommended that the Six Month Report attached and approved by the Programme Steering Group is approved for submission to the Minister for the Environment.

Helen Creagh  
**Rotorua Catchments Manager**

**for General Manager, Integrated Catchments**

**22 March 2019**



# APPENDIX 1

## 2019-04-05 RTALSG Dashboard - PDF





# Rotorua Te Arawa Lakes Programme Steering Group

<b>Programme Manager</b>	Helen Creagh	<b>Sponsor</b>	Chris Ingle	<b>Status Report Date</b>	April 2019
<b>Overall Status</b>	Overall Status: GREEN				
<b>Category</b>	<b>RAG Status</b>	<b>Update</b>			
<b>Financials</b>	AMBER	Projected underspends in phosphorus locking, land management change, low nitrogen land use fund, Brunswick sewerage reticulation, weed harvesting and engineering solutions has the financials sitting at Amber.			
<b>Schedule</b>	AMBER	Several of the Programme's projects are currently tracking behind schedule. These include: low nitrogen land use fund, weed harvesting and phosphorus locking re-consenting.			
<b>Resources</b>	GREEN				
<b>Scope</b>	GREEN				
<b>Overall Progress</b>	GREEN				

## Programme Risks

<b>Overall Risk Register: 6 open risks</b>	Risks 12 and above: 1 open risk
	Risks 8-11: 4 open risks
	Risks 1-7: 1 open risk

## Projects Snapshot

**TLI Target = 4.2**  
Current = 4.3  
Improving

Overall status

**Lake Rotorua**

- Progressing engineering solutions to achieve 50 t.
- Synoptic survey of the Waiteti Stream was undertaken.
- Stocktake and gaps analysis has been completed for the Rotorua WMA.
- 17 resource consents have been issued to date under PC10.
- Preparation for the Environment Court hearings of the Rotorua WW Treatment Plant.
- Finalising the agreement to secure 27ha gorse conversion. To date, 188ha has been converted.
- Strategic review of the Incentives Scheme due April.
- Individual connection agreements for Brunswick/Rotokawa un-reticulated properties are being worked through.
- First round of PC10 Environment Court hearings completed ahead of schedule.
- LNLUF project is four months behind schedule which is compromising the applications ability to deliver projects.
- Planning for Stage 3 of NDMS has commenced. Stage 2 is complete.
- Plan Change 10 Science Review has been completed.
- Puarenga Phosphorus (P) locking plant is out of commission. Weekly P monitoring is being undertaken.

**TLI Target = 3.5**  
Current = 3.9  
Improving

Overall status

**Lake Rotoiti**

- Continued construction of the WWTP and land disposal system and reticulation. Completion is expected April 2019
- Continued Catfish incursion management.
- Installation of the stiffening whaler for Ohau Wall is due to commence.

**TLI Target = 2.6**  
Current = 3.1  
Declining

Overall status

**Lake Tarawera**

- Draft report for Tarawera cultural mapping has been completed.
- Finalise work plan for MfE regarding Sewerage Scheme.
- Drafting Cultural Health Index for Lake Tarawera.
- 2019 acacia control work programme has been finalised.

**TLI Target = 3.9**  
Current = 4.8  
Declining

Overall status

**Lake Rotoehu**

- Due to insufficient weed the weed harvester won't be operational this season.
- Further consultation will be undertaken to consider options for reticulation.
- Working through potential adjustments to alum dosing. Weekly P monitoring is being undertaken.

**TLI Target = 3.0**  
Current = 3.5  
Improving

Overall status

**Lake Okareka**

- 53ha of land use change is very near to being secured with a further 75 ha pending final sign off.
- Waitangi Stream erosion repairs are being undertaken.
- Awaiting detailed proposal from the service provider regarding Lake Okareka monitoring buoy.

**Lake Rotorua Nitrogen Target (Tonnes)**

Target (T)	320
Achieved (T)	30

\*Note: The stability of Lake Rotorua's TLI is due to artificial means.



## **APPENDIX 2**

### **2019 FLRC paper on Tarawera FEPs by Park Creagh and Sutton.docx - Abstract**



# **TARAWERA FARM ENVIRONMENTAL PLANS – FARMERS BUILDING ON THE PAST, PREPARING FOR THE FUTURE**

**Simon Park<sup>1</sup>, Helen Creagh<sup>2</sup> and Chris Sutton<sup>3</sup>**

*<sup>1</sup>Landconnect Ltd, Tauranga; <sup>2</sup>Bay of Plenty Regional Council; <sup>3</sup>Project Rerewhakaaitu Inc.  
Email: [simon@landconnect.co.nz](mailto:simon@landconnect.co.nz)*

## **Abstract**

The Project Rerewhakaaitu farmer group evolved in the 2000s from a series of projects looking at on-farm nitrogen and phosphorus mitigations. Many mitigations were incorporated into Farm Environment Plans (FEPs) developed by AgResearch.

In 2015 the non-statutory Tarawera Lakes Restoration Plan was developed by Bay of Plenty Regional Council (BORPC) with community input. Agreed actions included FEPs for the inner and outer Tarawera lakes catchments – the latter comprises the contributing catchments of Lake Rerewhakaaitu and five other lakes. The Restoration Plan also flagged the need for improved catchment modelling and potentially land use rules to limit increased nutrient inputs to the Tarawera lakes system.

Project Rerewhakaaitu and BORPC agreed to base the new FEPs on industry templates and Overseer. Fonterra used its Sustainable Dairy Advisors to develop Tiaki FEPs and Beef and Lamb New Zealand ran two Land and Environment Plan workshops, with one-to-one follow-up by local farm consultants. As participation was voluntary, farmers were given written assurances that individual farm data would remain confidential and only aggregated catchment nutrient data would be published.

48 FEPs were completed by spring of 2018. There are 32 Tiaki FEPs covering 5300 hectares with a combined 1060 on-farm actions. There are 16 LEPs covering 6800 ha. Key averaged effective area Overseer results (v6.3.0) were:

- Dairy (Tiaki): 46-58 kgN/ha/yr and 1.3-2.5 kgP/ha/yr;
- Dairy Support (Tiaki) 34-51 kgN/ha/yr and 1.8-3.8 kgP/ha/yr;
- Drystock (LEPs): 16-32 kgN/ha/yr and 1.1 to 3.9 kgP/ha/yr;
- Drystock P losses appear to correlate with soil type.

While some of the ‘outer’ Tarawera lakes are meeting their Natural Resources Regional Plan water quality targets (expressed as 3-year average Trophic Level Index or TLI), Lake Tarawera itself is not meeting its 2.6 TLI target. Aggregated nutrient loss data from this FEP project will help inform catchment modelling. This will in turn inform the local community on the complex linkages within the Tarawera lakes system and the need for any land use rules.



## **APPENDIX 3**

# **CR064 Funding Transfer Change Request (vA4794488) - PDF**





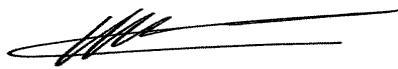
## Rotorua Te Arawa Lakes Programme

# Change Management Request

Please attach any papers required to support this Change Request.

<b>Change Title</b>	Budget transfer from Incentives Scheme to Gorse Conversion Project (2018-2019 Financial Year)		
<b>Project Name</b>	Gorse Conversion Project		
<b>Change Request No</b>	<b>Change Requested By</b>	<b>Required by Date (Please indicate if change request is Urgent)</b>	<b>Date Requested</b>
CR064	Helen Creagh		9 Nov 2018
<b>Requested Change</b>	<p>Forecast expenditure for 2018/19 is tracking at a \$550,000 overspend within the Gorse Conversion Project. This is due to a large 100 hectare agreement being finalised where the funds will be paid directly due to the conversion having already (recently) occurred in anticipation of an agreement. It also reflects another large agreement which is pending approval, where gorse control will start this financial year.</p> <p>It is proposed that \$550,000 is transferred from the Incentives Programme to the Gorse Conversion Programme within the current financial year to enable these payments to be made. The final total spends of each project over their life will not change, it is only proposed to adjust spending in the current financial year. As you are aware, the current forecast expenditure has the Incentives Programme tracking at an underspend which enables this transfer to occur for this financial year.</p>		
<b>Reason for Change</b>	<p>Budget approved in the 2018/19 Annual Work Programme is \$221,000 for the Gorse Conversion Project. With new agreements being completed an additional \$550,000 is required in the current financial year. This will bring the total 2018/19 forecast spend for the Gorse Conversion Project to \$771,000.</p> <p>This expenditure will represent the last large expenditure under the Gorse Conversion Project as the remaining gorse in the catchment is patchy and may prove difficult to convert under the terms of Crown funding (specifically the 999 year in-perpetuity agreement requirement), other options will be pursued for managing the remaining gorse.</p> <p>The total spend of the Gorse Conversion Project for the next three years approved by Strategy Group in the Three Year Plan for the Programme (2018-2021) is \$838,000. The increased expenditure this year will be reflected in underspends in the two subsequent financial years.</p>		
<b>Proposed Resolution</b>	Approve transfer of \$550,000 from the Incentives Scheme to the Gorse Conversion Programme for the 2018-2019 financial year.		
<b>Project Plan Area</b>	<b>Impact of Proposed Changes</b> <i>Note: If possible please provide details of impact in terms of days and dollars</i>		

## Rotorua Te Arawa Lakes Programme

<b>Impact</b>	Impact on Scope	Nil			
	Impact on Risk	Nil			
	Impact on Schedule ( <i>Describe impacted Milestones</i> )	Milestone	Scheduled Date	New Date	Impact in Days
		Nil			
	Impact on Resources (e.g. Staff, Technology, Physical)	Nil			
	Impact on Cost	Nil			
	Impact on Dependencies	Nil			
	Impact on Benefits	More gorse conversion can occur in the current financial year than planned.			
	Other Impacts	Nil			
Decision and Delegated Authority Verified:			Verify Date:		
Approval to Proceed <i>Pending – Review Date Declined / Approved</i>		Programme Manager / Date	Project Sponsor / Date		
Approved by PSG 21 November 2018					

**Notes:**

- Do not take any action until the Change Request has been approved
- Add to Change Control Register
- Retain the approved form with Project Documentation

## **APPENDIX 4**

### **2018- 2019 Six Month Report Rotorua Te Arawa Lakes Programme - PDF Report with cover**





# Six Month Report

July-December 2018

#love our lakes  
[rotorualakes.co.nz](http://rotorualakes.co.nz)



Bay of Plenty Regional Council, Rotorua  
Lakes Council and Te Arawa Lakes Trust.  
Working as one to protect our lakes  
with funding assistance from the  
Ministry for the Environment.

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# Part 1:

## Purpose

The purpose of this document is to report progress against the 2018/19 Annual Work Plan of the Rotorua Te Arawa Lakes Programme, for the six months ending 31 December 2018. This report is in accordance with Clause 5.3 and 5.4 of the Deed of Funding.

This report provides an update on deed funded projects, including their financial status. It also provides an update on non-deed funded projects that fall under the Programme.

The overarching goal of the Deed of Funding is to reach community aspirations for water quality in four deed funded lakes: Rotorua, Rotoiti, Ōkāreka and Rotoehu.



# Part 2:

## Overview

Work continues on all lakes but with a continued heavy resource weighting towards Lake Rotorua. An update on progress on each lake to 31 December 2018 is provided below, in accordance with the 2018/19 Annual Work Plan.

### Lake Rotorua

<b>RLC and BOPRC Annual Plan Budget 2018/19 (\$000)</b>	<b>Actual year to date expenditure (\$000)</b>	<b>Approved Crown Funding (\$000)</b>	<b>Crown Funding received to date (\$000)</b>	<b>Crown Funding applied to date (\$000)</b>
10,729	965	5,365	2,278	570

Proposed Plan Change 10 (PPC10) is currently moving through the Schedule 1 Environment Court process. Expert Conferencing was held and parties are now preparing for the court hearings commencing March 2019.

Reworking of the previously finalised Nutrient Management Plans continues to be undertaken, to provide identification of Critical Source Areas for phosphorus and identifying mitigation measures, both included as new provisions of the Plan Change following the decision of Commissioners following Council hearings in 2017. Advice and Support staff continue to work closely with landowners to provide information on their obligations under PPC10. Ten consents have been granted for properties over 40 ha with further applications being processed. In total, 144 landowners have engaged with the advice and support service.

Eleven hectares of gorse will be removed as a result of recent signing of a land use change agreement. However, the requirement for a 999 year encumbrance to be registered on land titles is proving to be a disincentive for some Māori owned land and this is slowing progress of the gorse conversion project.

The Low Nitrogen Land Use Fund attracted 19 Expressions of Interest with 16 applicants invited to submit a full application. Ten applications were received and eight projects will be put forward for approval by the Rotorua Te Arawa Lakes Steering Group totalling \$1.26m.

The Incentives Scheme has secured deals of 20.4 t. The Lake Rotorua Incentives Committee has commenced their Strategic Review as required by the Terms of Reference. The review is critical to progress land use change and limit the current barriers being experienced. The review outcomes will be presented to Council in March 2019.

In September, the Programme Steering Group approved the close out of the Tikitere Zeolite Plant Project. Due to increasing build and ongoing operational costs, the project was no longer viable. Workshops have been held to investigate engineering solutions within the catchment to achieve nitrogen reductions. The focus has now shifted to see an investment in projects which will be assets to the community, in addition to in-lake nitrogen removal, these may include: enhancement and protection of existing wetlands, development of new wetlands and removal of nitrogen fixing species.

Rotorua Lakes Council lodged their resource consent application for the Rotorua Wastewater Treatment Plant Alternative Disposal Site. The application is being directly referred to the Environment Court. Staff from both Councils are working together to approach properties not yet connected to sewerage reticulation in the Rotokawa/Brunswick area, to provide options and assistance for connection.

Biosecurity surveillance has been undertaken on Lake Rotorua to detect the presence of catfish. Unfortunately, six catfish were caught by Mokoia Island. This is the first time catfish have been found in this lake. More surveillance will be undertaken to determine the extent of the incursion and a plan will be developed with the Partners.

As part of the Communication Summer Campaign, Regional Council staff, contractors and members of the public, featured in a short video that highlights the work that is being undertaken to improve water quality in the Rotorua Te Arawa Lakes.

Unfortunately, at the end of 2018, catfish were caught on Lake Rotorua and a population in the lake now appears to be established. Regional Council are funding the response to the incursion alongside the response to the incursion on Lake Rotoiti.

## Lake Rotoehu

<b>RLC and BOPRC Annual Plan Budget 2018/19 (\$000)</b>	<b>Actual year to date expenditure (\$000)</b>	<b>Approved Crown Funding (\$000)</b>	<b>Crown Funding received to date (\$000)</b>	<b>Crown Funding applied to date (\$000)</b>
385	26	193	96	15

Lake algae blooms started early in the season with a public health warning issued temporarily for Lake Rotoehu in Late November. Short term intervention, phosphorus locking was put on hold due to inefficiencies. A water quality workshop was held with scientists and as a result changes are being made to the phosphorus locking plant to make the plant more effective at locking phosphorus coming to the lake. Another short term intervention, weed harvesting is expected to be undertaken April/May 2019.

## Lake Okareka

<b>RLC and BOPRC Annual Plan Budget 2018/19 (\$000)</b>	<b>Actual year to date expenditure (\$000)</b>	<b>Approved Crown Funding (\$000)</b>	<b>Crown Funding received to date (\$000)</b>	<b>Crown Funding applied to date (\$000)</b>
320	18	160	80	5

Staff have brokered a land use change agreement for around 60 ha of gorse and pasture to be planted in Mānuka, this comprises approximately 50% of the target for further land use change in the Lake Ōkāreka Catchment – approved by Strategy Group in 2016. An audit of the catchment land use to assess compliance with the Rule 11 Benchmark was undertaken in 2017/18. As a result of the audit, the one property owner to be found well in excess of their benchmark has agreed to work with an agricultural consultant to come into compliance.

Temporary streamworks at Waitangi Stream have been undertaken to minimise the considerable risk of accelerated erosion, as a result of the higher stream flows since June 2017. Staff are working through obtaining resource consent to undertake permanent protection works and these are scheduled to be completed over summer 2018-2019.

## Lake Rotoiti

<b>RLC and BOPRC Annual Plan Budget 2018/19 (\$000)</b>	<b>Actual year to date expenditure (\$000)</b>	<b>Approved Crown Funding (\$000)</b>	<b>Crown Funding received to date (\$000)</b>	<b>Crown Funding applied to date (\$000)</b>
11,445	4,937	5,723	1,480	2,470

Ongoing projects on Lake Rotoiti include the final sewerage reticulation between Curtis Road and Hinehopu and the contract being let for installation of the stiffening whaler to strengthen the Ohau Wall due to corrosion issues. The focus on Lake Rotoiti continues to be the response to the catfish incursion. This is funded by the Regional Council and includes contracting Te Arawa Lakes Trust to provide a co-ordinator to facilitate the community response to the incursion.

## Part 3:

# Key achievements

An overview of key achievements for the first six months of this financial year are shown in the table below. Achievements are shown against the high level outline of the activities planned for the 2018/19 financial year, and as outlined in the 2018/19 Annual Work Plan. Deed funded projects are highlighted in bold.

For more detailed information about the projects (including financials), please refer to the later sections of this report.

## Lake operations

Lake operations as shown in 2018/19 Annual Work Plan	Lake operations progress as at 31 December 2018
<b>Continue Lake Rotoehu Weed Harvesting.</b>	<b>Weed permitting the harvester will be operational April/May 2019.</b>
<b>Investigate further engineering solutions to achieve remaining 50 t Nitrogen (N).</b>	<b>Workshops held to investigate engineering solutions within the catchment to achieve the remaining 50t N. The preference moving forward is to see investment in projects which will be assets to the community, in addition to in-lake nitrogen removal, these may include: enhancement and protection of existing wetlands, development of new wetland and removal of nitrogen fixing species. Further sewerage reticulation may also be a possibility. There are challenges in achieving this target, staff will continue to look for possible solutions.</b>
<b>Continue phosphorous locking to maintain water quality (Lakes Rotoehu and Rotorua).</b>	<b>The two phosphorus locking plants on the Puarenga and Utuhina streams continue to control in-lake phosphorus levels to the long term target.  The phosphorus locking plant at Lake Rotoehu was turned off in August due to the lack of benefits. A water quality workshop was held with scientists in October, which made recommendations to manage issues with the operation of the plant.</b>

Lake operations as shown in 2018/19 Annual Work Plan	Lake operations progress as at 31 December 2018
	<b>Changes are being made in an attempt to operate the plant more effectively.</b>
<b>Continue to pursue resource consents, prepare site and review engineering and cost feasibility of Tikitere Zeolite Plant, in time for scheduled 2018-2019 construction.</b>	<b>Creep in the project capital costs through the trial and design process impacted negatively on the project viability. The early capital cost was estimated at \$4.6M which has escalated to more than \$9.6M with operating costs of \$750,000 a year. A project close out report was approved by PSG September 2018. Construction of this plant is no longer considered a viable option to achieve nitrogen removal from Lake Rotorua.</b>
<b>Undertake re consenting of phosphorous locking on Lakes Rotorua and Rotoehu.</b>	<b>Resource consent application has been made to renew the consents and Council is continuing to finalise consultation to support the application.</b>
Manage the corrosion of the Ohau Wall as per the Structural Management Plan.	The contract for installation of the stiffening whaler has been let and installation is expected to take place early 2019.
Install monitoring buoys at Lakes Rotoiti and Ōkāreka.	This project is currently on hold until the management of the buoys has been clarified.
Continue Lake Ōkāreka streamworks to protect assets from erosion.	Temporary streamworks have been undertaken due to the risk of accelerated erosion as a result of the higher stream flows since June 2017. Resource consent is being sought to put in place permanent protection works with the objective of getting works undertaken in January and March 2019.
Responsive weed management as required for amenity purposes across all lakes.	Weed can be a problem over the summer months in recreational areas. Budget is available to deal with this as required over late summer.
Finalise and present Tarawera Catchment nutrient modelling.	Nutrient modelling to review nitrogen and phosphorus targets is advanced and due to be reported on soon.

Lake operations as shown in 2018/19 Annual Work Plan	Lake operations progress as at 31 December 2018
<p>The University of Waikato Chair of Science and the Water Quality Technical Advisory Group will continue to provide expert advice and scientific rigour for the Programme.</p>	<p>Technical Advisory Group (TAG) advice continues. TAG is close to releasing a paper on the impact of climate change to the Lakes Programme.</p> <p>Four meetings held during the reporting period, including two targeted workshops.</p> <p>Eleven draft module reports have been prepared with comments received from the peer reviewer. A final summary report is now being prepared and it is expected that this will be presented to Council in early 2019.</p> <p>The Memorandum of Understanding with the University for the Chair of Lake and Freshwater Science and the associated research programme has been renegotiated and approved for funding in December 2018, by the Regional Council through until 2024.</p>
<p>Land Technical Advisory Group to provide technical support for land use and land management decisions.</p>	<p>No workshops held during the reporting period.</p>
<p>Continue work to refine function of the trout barrier at Hamurana Springs, by investigating options to alleviate algae issues above the barrier and prevent trout from passing above the barrier.</p>	<p>The trout barrier has experienced some issues with algae growth. We are considering the long term application of the barrier and whether it can be altered or removed.</p>
<p>Continue to monitor forest harvest impact on groundwater and Lake Rotomā - a four year project. Year 4.</p>	<p>Monitoring on forest harvest impacts are being undertaken. A detailed report is expected December 2019.</p>
<p>Continue koura monitoring programme on all twelve lakes.</p>	<p>This is an ongoing project that is designed to provide long term koura population statistics.</p>

**Lake operations as shown in 2018/19 Annual Work Plan**

**Lake operations progress as at 31 December 2018**

Continue catfish surveillance and potential management.

A coordinator for the Community Response to the Catfish Incursion has been recruited by Te Arawa Lakes Trust. The position has been funded by Bay of Plenty Regional Council for a period of three years.

Research into the eDNA surveillance tool has proven effective at testing water samples in Te Weta Bay for the presence of catfish, with work now ongoing to determine the sensitivity in larger water bodies. Spawning disruption surveys have begun in Te Weta Bay by NIWA. Thirty catfish have been tagged in a year long study into the tracking and behaviour of the catfish across Lake Rotoiti.

For the first time, catfish have been discovered in Lake Rotorua near Mokoia Island. Next steps include carrying out surveillance to determine the extent of the infestation and then to work with partners to develop a response plan.

## Land management

Land management as shown in 2018/19 Annual Work Plan	Land management progress as at 31 December 2018
<p>Continue to implement the Lake Rotorua Gorse Programme, including signing up new agreements and implementing existing ones.</p>	<p>The total area of gorse which is pending agreement or has a gorse agreement on it is 186.6 ha. This includes an agreement signed in the six months reported here which will see 11 ha of gorse removed from the catchment and replaced with trees.</p>
<p>Seek expressions of interest for low nitrogen land use trials. Commence trials on three properties. Continue addressing gaps in research for housing and tourism opportunities in the catchment.</p>	<p>The Low Nitrogen Land Use Fund attracted 19 Expressions of Interest with 16 applicants invited to submit a full application. Ten applications were received and eight projects will be put forward to the Rotorua Te Arawa Lakes Steering Group totalling \$1.26m.</p>
<p>Continue to implement the Lake Rotorua Incentives Scheme, including signing up new agreements and implementing existing ones.</p>	<p>To date, 20.4 t of Nitrogen has been secured through the incentives scheme. This includes an agreement securing just over a tonne at the lake, approved in the six months reported here.</p>
<p>Continue to implement the Advice and Support Service for landowners affected by Plan Change 10.</p>	<p>To date, 144 landowners have engaged with Advice and Support. There are 94 properties over 40 ha in area in the Lake Rotorua Catchment which require a resource consent this year and, of these, 87 are engaged with Advice and Support. Previously finalised Nutrient Management Plans (NMPs) are currently being reworked to incorporate a greater emphasis on on-farm phosphorous mitigations as a result of the Commissioners' decisions on Plan Change 10 released in 2017. Further rework may be required depending on the outcomes of the Environment Court hearing scheduled to take place in March 2019.</p>
<p>Progress further land use change in Lake Ōkāreka Land Use Project to reduce nutrient loss.</p>	<p>An agreement has been signed for 60 ha of gorse and pasture to be planted in Mānuka. Feasibility of a further large land use change agreement in the Lake Ōkāreka Catchment is being considered.</p>



Land management as shown in 2018/19 Annual Work Plan	Land management progress as at 31 December 2018
<p>Continue Tarawera Catchment acacia control on land adjacent to Isthmus Track.</p>	<p>Acacia control was undertaken over 137 ha of land throughout the 2018 winter period.</p>
<p>Support the farming community to develop farm management plans that concentrate on Good Management Practices in the Lakes Rerewhakaaitu, Rotokakahi, Rotomahana and Tarawera catchments and provide support for the implementation of these plans. Quantify the nutrient reductions achieved by the farming community in these catchments.</p>	<p><b>This project was completed during the reporting period and completes actions 2 and 4 of the Tarawera Lakes Restoration Plan.</b></p> <p><b>The local farmer group - Project Rerewhakaaitu, Beef and Lamb New Zealand, Fonterra and the Bay of Plenty Regional Council worked together to develop 48 customised Farm Environment Plans for farms in the inner and outer catchments of Lake Tarawera. This represents most farms in these catchments, with only a few farms opting not to participate, which is a fantastic outcome.</b></p> <p><b>These plans will help farmers minimise nitrogen and phosphorus losses to waterways. This 18 month project involved farmers in the catchments of Lakes Rotomahana, Okareka, Okaro, Rotokakahi, Rerewhakaaitu and Tarawera, plus some adjoining farms in the Rangitaiki and Waikato River catchments. Each Farm Plan was supported by an Overseer file which modelled the nutrient footprint of the farm enterprise.</b></p> <p><b>While the plans and Overseer files remain confidential to each landowner, a summary report was compiled for each sector by each of the industry groups and presented back to the community in December 2018. These summary reports will provide valuable input to the Lake Tarawera Catchment modelling currently being undertaken.</b></p> <p><b>The focus is now on providing support to landowners to implement the actions identified in their Farm Environment Plans through advice and subsidies. An update of the plans may be appropriate in future years.</b></p>

## Policy, planning, communications and information technology

Policy, planning, communications and information technology as shown in 2018/2019 Annual Work Plan	Policy, planning, communications and information technology progress as at 31 December 2018
Continue Schedule 1 RMA (1991) process for Lake Rotorua Nutrient Management rules being made operative.	Plan Change 10 is currently moving through the Schedule 1 Resource Management Act, Environment Court process. Expert Conferencing has been completed and parties are preparing evidence in preparation for the court hearing commencing March 2019.
Identify timeframes for rules to be developed for the 'Non-Rule 11' lakes.	The Rotorua Water Management Area plan change (PC15) implements the National Policy Statement for Freshwater Management. This will cover the remaining lakes not included within Plan Change 10. Notification of PC15 is expected in 2022.
Continue to embed Te Tuapapa o ngā wai o Te Arawa within the Programme.	<p>A key focus for Te Arawa Lakes Trust has been continuing to engage hapū and iwi with the Rotorua Te Arawa Lakes Programmes in a number of projects, and ensuring Te Arawa values are maintained.</p> <p>A wananga was held with Regional Council staff on Te Tuapapa, to ensure staff understand how to apply Te Tuapapa within the Programme and work across the lakes.</p>
Continue implementation of the revised Communications Plan for the Programme.	<p>A key recommendation from the 2018 Independent Quality Assurance Review was to align the Communications Plan with the foundational Vision and Strategy Document and milestones of key projects to ensure consistency in communications. The Plan has since been updated to reflect the recommendations.</p> <p>The programme also hosted a stall at the Rotorua Home Show from July 13 to 15 2018, where staff were able to engage with members of the public. The distribution email list was increased from roughly 400 to 700 in this time. New collateral and brochures were produced for this.</p> <p>A summer advertising campaign is well underway for 2018/19 summer.</p> <ul style="list-style-type: none"> <li>• Sponsored stories have been placed on NZME, four stories across four months which talk about the programme as a whole and what is being done to achieve targets, how land owners can help and engage and how the general public can help.</li> </ul>

Policy, planning, communications and information technology as shown in 2018/2019 Annual Work Plan	Policy, planning, communications and information technology progress as at 31 December 2018
	<ul style="list-style-type: none"> <li>• Radio messaging has been targeted at rural land owners through Radio Sport and News Talk ZB farming segments for parts of the programme, including land use changes and gorse conversion.</li> <li>• Targeted messaging has been placed on bus backs for general public, with images captured from real staff and people in the community who are working towards cleaner lakes.</li> <li>• A video which simply outlines what the programme does has been produced; it will play at the cinemas across the summer months as well used internally and on social media.</li> <li>• An animation is still been produced to show how nutrients play havoc on our lakes. It will also play at the cinemas and used on social media.</li> <li>• The Lakes Programme website has been rebuilt and was launched in December. The website focuses on each of the Te Arawa lakes and why we are working towards improving their water quality.</li> <li>• A series of Facebook posts are underway with each one looking at one of the different Te Arawa lakes and why they are special with images taken to accompany each.</li> </ul> <p>Facebook and Instagram numbers have grown significantly over the last year. Facebook has grown from 1,821 at the beginning of 2018 to 2,194 and Instagram has grown to 365 followers.</p>
Progress Phase Two of the Nutrient Discharge Management System.	Phase 2 was completed at the end of December. This will deliver an automated process for transfers, agreements and NMP committed actions.
Complete cultural mapping for all lakes.	Regional Council have a contract with Te Arawa Lakes Trust to deliver cultural mapping.

**Policy, planning, communications and information technology as shown in 2018/2019 Annual Work Plan**

**Policy, planning, communications and information technology progress as at 31 December 2018**

Assist Te Arawa Lakes Trust to establish an Iwi Engagement Forum for lakes matters.

In January 2019, Te Arawa Lakes Trust provided a proposal to establish this forum, this is currently being considered with the aim of establishing the forum in the first half of 2019.

## Sewerage

Sewerage as shown in 2018/2019 Annual Work Plan	Sewerage progress as at 31 December 2018
<b>Commence a project to connect the remaining un-connected properties in the Lake Rotorua Catchment to sewerage reticulation.</b>	<b>Staff from both Councils are working together to contact property owners to provide options and assistance for connection.</b>
<b>Complete construction of the Rotomā/Rotoiti wastewater treatment plant, land disposal system and reticulation.</b>	<b>Construction of the wastewater treatment plant is 50% complete. Tenders for the onsite pre-treatment systems are being prepared.</b>
Seeking approval for the Rotorua wastewater treatment plan alternative disposal site.	The resource consent application has been lodged and will be heard by the Environment Court shortly, as part of the Direct Referral Process under the Resource Management Act.
Continue community engagement at Rotoehu in relation to sewerage, with the aim of agreeing on preferred options.	The Rotoehu Sewerage Steering Group is considering options for the community.
Assist the community to decide whether sewerage reticulation is a feasible response to declining water quality on Lake Tarawera.	The Tarawera Sewerage Steering Committee have adopted a preferred option for sewerage reticulation, using grinder pumps and reticulation down Tarawera Road back to the Lake Rotorua Wastewater Treatment Plant.

## Part 4:

# Annual Plan of Interventions – Deed funded lakes



## Lake Rotorua



To meet community expectations for water quality in Lake Rotorua, nitrogen inputs must not exceed 435 t annually. This limit is set in the Bay of Plenty Regional Policy Statement.

To achieve water quality targets for Lake Rotorua, the Programme is undertaking short-term and long-term interventions. The short-term intervention, phosphorus locking, has resulted in Lake Rotorua reaching its water quality objective in the past. However, the lake will decline again if phosphorus locking is not carried out annually. Reconsenting of the phosphorus locking on Lakes Rotorua and Rotoehu is progressing, with community consultation being undertaken.

The long-term interventions include: Gorse Conversion, Proposed Plan Change 10, Engineering Solutions and the Incentive Scheme. During the reporting period, a gorse agreement has been signed to remove 11 ha of gorse and a working group has been established to look at investing in engineering solutions that will be assets to the community, including in-lake nitrogen removal, enhancement and protection of existing wetlands, development of new wetlands and removal of nitrogen fixing species. An Incentives Agreement removing approximately 1 t of nitrogen from the lake was also approved by the Incentives Committee and the Schedule One process for Proposed Plan Change 10, continued with evidence being exchanged by the parties in preparation for the Environment Court hearing in March 2019.


## Planned and completed activities – Lake Rotorua


Project	Deed funded	At lake target	6 month target	6 month reduction achieved	Update	Budget \$000	Project status
Lake Rotorua Gorse Conversion Project	Yes	365.5 ha	150 ha	11 ha	<p>Staff are continuing to work with the owners of eligible gorse blocks to promote the Lake Rotorua Gorse Programme. However, the requirement for a 999 year encumbrance to be registered on land titles is proving to be a disincentive for some Maori owned land and this is slowing progress. The remaining gorse is also small, patchy lots which are proving too cost-prohibitive to retire to trees. Staff will continue to work through both of these challenges.</p> <p>Eleven hectares of gorse will be removed as a result of the recent signing of a Landowner Agreement. This will take the total hectares of gorse removed from the catchment by the project to X with another large agreement pending.</p>	<p><b>Budget</b> \$221</p> <p><b>Spend</b> \$68</p>	
Rotorua Wastewater Treatment Plant – Alternative Disposal Site	No	N/A	N/A	N/A	<p>A resource consent application was lodged with the Regional Council and has been publically notified.</p> <p>The application is being directly referred to the Environment Court.</p>	<p><b>Budget</b> \$0</p>	



Project	Deed funded	At lake target	6 month target	6 month reduction achieved	Update	Budget \$000	Project status
Connection of currently un-reticulated programme	Yes	N/A	N/A	N/A	There are a number of properties in the Lake Rotorua Catchment that are not connected to sewerage reticulation. Staff from both Councils are working together on a project to contact property owners to provide options and assistance for connection. The first connections under this project will be made shortly.	<b>Budget</b> \$180  <b>Spend</b> \$0	
Completed Lake Rotorua Reticulation	Yes	9.74 t N 0.3 t P	4.87 t N 0.15 t P	4.87 t N 0.4 t P	Previously completed, reductions achieved annually.	<b>Budget</b> \$0	N/A
Incentives	Yes	100 t N (Reduction of nitrogen entering the lake)	25 t N	.29 t N	<p>To date, 20.4 t of Nitrogen has been secured through the Incentives Scheme with 1.2 t being secured during this reporting period.</p> <p>The Lake Rotorua Incentives Committee has commenced their Strategic Review as required by the Terms of Reference. The review outcomes will be presented to Council in March 2019.</p>	<b>Budget</b> \$7,558  <b>Spend</b> \$157	





Project	Deed funded	At lake target	6 month target	6 month reduction achieved	Update	Budget \$000	Project status
Tikitere Zeolite Plant	Yes	20-25 t N 0.0 t P	N/A	N/A	<p>Creep in the project capital costs through the trial and design process impacted negatively on the project viability. The early capital cost was estimated at \$4.6m which has escalated to more than \$9.6m with operating costs of \$750,000 a year. A project close out report was approved by PSG September 2018.</p> <p>Preference moving forward is to see investment in projects which will be assets to the community, in addition to in-lake nitrogen removal. Recent advice now indicates protection and enhancement of existing wetlands and development of new wetlands are likely to be a more cost effective solution. There may also be opportunities in weed harvesting.</p>	<p><b>Budget</b> \$500</p> <p><b>Spend</b> \$86</p>	

Project	Deed funded	At lake target	6 month target	6 month reduction achieved	Update	Budget \$000	Project status
Further engineering solutions	Yes	15 t N 0.0 t P	N/A	N/A	<p>Workshops have been held to investigate engineering solutions within the catchment to achieve the remaining 50 t N. The preference moving forward is to see investment in projects which will be assets to the community including in-lake nitrogen removal, enhancement and protection of existing wetlands, development of new wetlands and removal of nitrogen fixing species.</p> <p>A project is underway to remove alders along the Puarenga Stream.</p> <p>Staff are liaising with interested landowners regarding wetland restoration and enhancement.</p>	<p><b>Budget</b> \$500</p> <p><b>Spend</b> \$0</p>	

Project	Deed funded	At lake target	6 month target	6 month reduction achieved	Update	Budget \$000	Project status
Advice and Support Service	Yes	N/A	N/A	N/A	<p>To date, 144 landowners have engaged with Advice and Support. There are 94 properties over 40 ha in area in the Lake Rotorua Catchment which require a resource consent this year and, of these, 87 are engaged with Advice and Support.</p> <p>Previously finalised Nutrient Management Plans (NMPs) are currently being re-worked to incorporate a greater emphasis on on-farm phosphorous mitigations as a result of the Commissioners' decisions on Plan Change 10 in 2017. When completed, landowners are able to use their NMP to support their application for resource consent.</p> <p>Eleven resource consents have been granted to date, with a number of others being processed.</p>	<p><b>Advice and Support Budget</b> \$500</p> <p><b>Spend</b> \$148</p>	

Project	Deed funded	At lake target	6 month target	6 month reduction achieved	Update	Budget \$000	Project status
<b>Low Nitrogen Land Use Fund</b>	Yes	N/A	N/A	N/A	<p>The Land Use Innovation Series was run during August by the Te Arawa Primary Sector with funding and support from the Programme. A series of workshops and field trips were held to showcase possible alternative low nitrogen land uses for the Lake Rotorua Catchment.</p> <p>The Low Nitrogen Land Use Fund attracted 19 Expressions of Interest with 16 applicants invited to submit a full application. Ten applications were received and eight projects were put forward to the Rotorua Te Arawa Lakes Steering Group totalling \$1.26m.</p> <p>Recommendations of an Assessment Panel appointed to consider the applications were due to be considered by RTALSG on 14 December but the meeting was deferred until March 2019.</p>	<p><b>Budget</b></p> <p>\$500</p> <p><b>Spend</b></p> <p>\$75</p>	
<b>Phosphorous Locking (Utuhina and Puarenga)</b>	Yes	As required	As required	2.55 t P	<p>The two phosphorus locking plants on the Puarenga and Utuhina streams continue to control in-lake phosphorus levels to the long term target. As a result, the lake had a TLI of 4.3 units for 2017/18 year, which is close to the target and no algal blooms were reported.</p>	<p><b>Budget</b></p> <p>\$665</p> <p><b>Spend</b></p> <p>\$231</p>	




Project	Deed funded	At lake target	6 month target	6 month reduction achieved	Update	Budget \$000	Project status
Lake Rotorua Regional Water and Land Plan – Proposed Plan Change	No	140 t N (Reduction of nitrogen entering the lake)	N/A	N/A	Plan Change 10 is currently moving through the Environment Court process. During the period, Expert Conferencing was completed and parties exchanged evidence in preparation for the Court hearing commencing March 2019.	<b>Budget</b> \$0	
Nutrient Agreements (not Incentives Scheme)	No	N/A	1.95 t N 0.03 t P	1.23 t N 0.08 t P	These are historical agreements to reduce nitrogen discharge from land - in effect, nutrient reductions realised annually.	<b>Budget</b> \$0	N/A
Reconsenting of Phosphorus Locking on Lakes Rotorua and Rotoehu	Yes	N/A	N/A	N/A	Resource consent application has been made to renew the consents and Council is continuing to finalise consultation in relation to the application. Council has approval to continue operation of the alum dosing until such time as a decision on the application is made.	<b>Budget</b> \$105 <b>Spend</b> Figures included in P locking	
<b>Total budget (full year)</b>						\$10,729	
<b>Total expenditure (six months)</b>						\$765	

## Lake Rotoehu

To meet community expectations for water quality in Lake Rotoehu, a reduction of 8.9 t of nitrogen and 0.708 t of phosphorus is required.

The short term intervention, phosphorus locking was put on hold due to the dosing not having the desired effect in terms of water quality improvement. A water quality workshop was held with scientists and as a result, changes are being made to the phosphorus locking plant to make the plant more effective at locking phosphorus coming to the lake. Another short term intervention, weed harvesting, is expected to be undertaken mid-2019. A potential long term intervention for Lake Rotoehu is a sewerage scheme. Rotoehu Steering Group is in the process of evaluating options for the Rotoehu community but is dependent on securing funding. The other long term intervention for Lake Rotoehu, land use change, is now complete.

## Planned and completed activities – Lake Rotoehu

Project	Deed funded	At lake target	Six month target	Six month reduction achieved	Update	Budget \$000	Project status
Land use and land management change	Yes	6.6 t N 0.46 t P Root Zone	4.22 t N 0.4 t P	4.22 t N 0.4 t P	The land use change target for the lake was completed a number of years ago now. The benefits of the reduction in nutrient entering the catchment is realised annually.	<b>Budget</b> \$0	N/A
Weed Harvesting	Yes	N/A	N/A	N/A	Weed harvesting is due to be undertaken April/May2019.  In the past two years weed has not been available for harvest due to high algae growth, so we have been unable to remove any nitrogen or phosphorus with this intervention.	<b>Budget</b> \$50 <b>Spend</b> \$21	
Phosphorus Locking	Yes	As required	As required	0 t N 0.6 t P	A recent workshop with scientists regarding the water quality of Lake Rotoehu has revealed some issues with the operation of the phosphorus locking plant and the natural chemical processes within the lake. Changes are being made to attempt to operate this plant to more effectively lock phosphorus and improve water quality.	<b>Budget</b> \$335 <b>Spend</b> \$5	
Rotoehu sewerage reticulation	No	N/A	N/A	N/A	The Rotoehu Sewerage Steering Committee continues to consider options for the community.	<b>Budget</b> \$0	
<b>Total budget (full year)</b>						<b>\$385</b>	
<b>Total expenditure (six months)</b>						<b>\$26</b>	

## Lake Rotoiti





To meet community expectations for water quality, Lake Rotoiti needs a reduction of 130 t of nitrogen and 19 t of phosphorus.

The Ohau Diversion Wall has been in place since 2008 to help improve water quality by diverting Lake Rotorua nutrients from Lake Rotoiti, while long term nutrient reductions into Lake Rotorua are achieved. The contract for the installation of new structural components to strengthen the wall due to corrosion has been completed and installation is expected early 2019.

Construction of the Wastewater Treatment Plant and Land Disposal system for the Gisborne Point/Hinehopu area is well underway and commissioning is expected later in 2019. This will complete sewerage reticulation for Rotoiti.



## Planned and completed activities – Lake Rotoiti



Project	Deed funded	At lake target	Six month target	Six month reduction achieved	Update	Budget \$000	Project status
Sewerage scheme Curtis Road to Hinehopu	Yes	4.9 t N 1.1 t P	0 t N 0 t P	0 t N 0 t P	The construction of the wastewater treatment plant is 50% complete.  Tenders for the onsite pre-treatment systems are currently being prepared.	<b>Budget</b> \$11,445 <b>Spend</b> \$4,934	
Ohau Diversion Wall	No	150 t N 15 t P	75 t N 7.5 t P	75 t N 7.5 t P	The contract for installation of the stiffening whaler has been let and installation is expected to take place early 2019. This work was necessary to strengthen the wall due to corrosion issues.	<b>Budget</b> \$0	
Completed reticulation	Yes	5.9 t N 0.21 t P	2.95 t N 0.10 t P	2.91 t N .24 t P	Completed reticulation – reduction ongoing annually.	<b>Budget</b> \$0	
Install Monitoring Buoy	No	N/A	N/A	N/A	This project is on hold until such time as BOPRC has a clear understanding of the costs associated with managing the multiple lake buoys. A proposal to manage all buoys is being sought from contractor.	<b>Budget</b> \$36 <b>Spend</b> \$0	
<b>Total Budget (Full Year)</b>						<b>\$11,445,036</b>	
<b>Total Expenditure (Six Months)</b>						<b>\$4,934</b>	


## Lake Ōkāreka

To meet community expectations for water quality annual nutrient reductions of 2.5 t nitrogen and 0.08 t of phosphorus are required.

As a result of the benchmark auditing undertaken in 2017/18, the landowner found to be in excess of their benchmark is currently working with an agricultural consultant to come into compliance. A new agreement for land use change has been signed for 60 ha of gorse and pasture to be planted in Mānuka.

## Completed activities – Lake Ōkāreka

Project	Deed funded	At lake target	Six month target	Six month reduction achieved	Update	Budget \$000	Project status
Further land use change project	Yes	NA	50ha	60ha	Land management staff have brokered a land use change agreement for 60 ha of gorse and pasture to be planted in Manuka which equates to 60% of the current Land Use Change Project target.  Ōkāreka benchmark auditing was also carried out in 2017/18 with one farm to be found in excess of their Rule 11 Benchmark. The non-compliant landowner has agreed to work with an agricultural consultant to come into compliance and staff are currently facilitating this.	<b>Budget</b> \$320 <b>Spend</b> \$5	
Install monitoring buoy	No	NA	NA	NA	This project is on hold until such time as BOPRC has a clear understanding of the costs associated with managing the multiple lake buoys. A proposal to manage all buoys is being sought from contractor.	<b>Budget</b> \$36 <b>Spend</b> \$0	

Lake Ōkāreka outlet streamworks	No	NA	NA	NA	Temporary streamworks have been undertaken as there was considerable risk of accelerated erosion as a result of the higher outlet flows since June 2017. Resource consent is being sought to put in place permanent protection works with the objective of getting works undertaken in January and March 2019.	<b>Budget</b> \$150 <b>Spend</b> \$4	
Sewerage Scheme	Yes	1.9 t N 0.02 t P	0.95 t N 0.01 t P	1.42 t N 0.12 t P	Reticulation complete, nutrient reductions recognised annually.	<b>Budget</b> \$0	N/A
Previous Land Use Change	Yes	1.18 t N 0.22 t P	0.59 t N 0.11 t P	0.59 t N 0.11 t P	Land use change complete, nutrient reductions recognised annually. Reductions at root zone.	<b>Budget</b> \$0	N/A
<b>Total budget (full year)</b>						<b>\$506,000</b>	
<b>Total expenditure (six months)</b>						<b>\$9</b>	

## Part 5:

# Annual Plan of Interventions – Non Deed funded

## Tarawera Lakes Catchments

The actions outlined in the table below are all actions in the Tarawera Lakes Restoration Plan which encompasses the seven lake catchments feeding and including Lake Tarawera. All actions within the restoration plan, which was developed in consultation with the community, are now either complete or underway with updates outlined here.

Te Arawa Lakes Trust are leading the next steps for action on Lake Tarawera, primarily working with the Nature Conservancy.

Lake Tarawera	Lake Tarawera achievement as of December 2018
Farm Environment Plans for the Inner and Outer Tarawera Catchments:	<p>This project was completed during the reporting period and completes actions 2 and 4 of the Tarawera Lakes Restoration Plan.</p> <p>The local farmer group - Project Rerewhakaitu, Beef and Lamb New Zealand, Fonterra and the Bay of Plenty Regional Council worked together to develop 48 customised Farm Environment Plans for farms in the inner and outer catchments of Lake Tarawera. This represents most farms in these catchments, with only a few farms opting not to participate, which is a fantastic outcome.</p> <p>These plans will help farmers minimise nitrogen and phosphorus losses to waterways. This 18 month project involved farmers in the catchments of Lakes Rotomahana, Okareka, Okaro, Rotokakahi, Rerewhakaaitu and Tarawera, plus some adjoining farms in the Rangitaiki and Waikato River catchments. Each Farm Plan was supported by an Overseer file which modelled the nutrient footprint of the farm enterprise.</p> <p>While the plans and Overseer files remain confidential to each landowner, a summary report was compiled for each sector by each of the industry groups and presented back to the community in December 2018. These summary reports will provide valuable input to the Lake Tarawera Catchment modelling currently being undertaken.</p> <p>The focus is now on providing support to landowners to implement the actions identified in their Farm</p>

Lake Tarawera	Lake Tarawera achievement as of December 2018
	Environment Plans through advice and subsidies. An update of the plans may be appropriate in future years.
Sewerage Reticulation	The Tarawera Sewerage Steering Committee have adopted a preferred option for sewerage reticulation at Lake Tarawera. This includes grinder pumps and reticulation down Tarawera Road back to the Lake Rotorua wastewater treatment plant. Detailed planning and design will now commence, led by the Rotorua Lakes Council.
Tarawera cultural health assessment	This action is being led by the Te Arawa Lakes Trust with funding from the Regional Council. Wānanga have been held with hapū and iwi to outline preferred assessment approach for Lakes Okataina and Tarawera.
Nutrient modelling	Nutrient modelling to review nitrogen and phosphorus targets is advanced and due to be reported soon. A key input to this modelling has been the amalgamated information from the Tarawera Farm Environment Plan Project.
Acacia control	<p>Acacia control was undertaken over 137 ha of land throughout the 2018 winter period.</p> <p>A trial of two different herbicides for Acacia control is being undertaken. If effective, this will result in efficiencies for the contractors.</p>
Limit on land use change	<p>This action refers to developing a rule which limits land use changes in the catchment which increase nutrient input.</p> <p>This policy and rule development is part of the Regional Council's work scheduled for the Rotorua Water Management Area.</p> <p>A stocktake of information associated with the Rotorua Water Management Area has now been completed and community consultation, policy drafting and associated work is scheduled to follow over the next two years with a plan to notify a plan change in the 2020-2021 financial year.</p>

## Lake Rotomā

Lake Rotomā	Lake Rotomā achievement as of December 2018
Forest Harvesting Effects Investigation	The harvest operation has been completed. More detailed results will be available at the completion of the monitoring project in December 2019.
Sewerage reticulation	<p>The construction of the wastewater treatment plant is 50% complete while the reticulation system is 60% complete.</p> <p>The commissioning of the scheme is planned to start on April 2019.</p>

## Catfish incursion management

A coordinator for the community response to the catfish incursion has been recruited by Te Arawa Lakes Trust. The position has been funded by Bay of Plenty Regional Council for a period of three years. A new biosecurity officer has also been recruited to oversee the operational aspect of the catfish incursion in Lake Rotoiti.

A targeted media and advertising campaign to raise awareness has been implemented over the busy summer period which includes signage, radio and online advertising, social media and a wide range of collateral to be distributed to stakeholders.

Netting of catfish begun in late August at Lake Rotoiti with 15,009 catfish caught to date. Surveillance of Lake Rotorua undertaken during December discovered the presence of catfish near Mokoia Island. This is the first time catfish have been found in Lake Rotorua. Next steps include carrying out surveillance to determine the extent of the infestation and then to work with partners to develop a plan.

Research into the eDNA surveillance tool has been proven effective at testing water samples in Te Weta Bay for the presence of catfish, with work now ongoing to determine the sensitivity in larger water bodies. Spawning disruption surveys have begun in Te Weta Bay by NIWA. Thirty catfish have been tagged in a year long study into the tracking and behaviour of the catfish across Lake Rotoiti.

## Part 6:

# Financials

This section provides financial information as per the Deed of Funding with the Ministry for the Environment. The information contained here aligns with the content of the Annual Plan 2018/19 for both Rotorua Lakes Council and Bay of Plenty Regional Council.





Rotorua Te Arawa Lakes Programme - Report B

Draft - Financial Progress Statement - Quarter 2 Report 2018/19 ( July to December 2018)

Interventions	Funding deed clause 5.4.1			Intervention Project progress indicator	Financial status to date	5.4.2 (a) Note 1	5.4.2 (b) / 5.2.2 (d)		5.4.2 (c)	5.4.2 (d) Note 2
	(A) Council Annual Plan Budget	(B) Actual year to date expenditure	(B - A) Variance to date over/(under) spend			(D) Council funding excluding Crown grants (50% of B)	(E) Approved Crown funding 2018/19	(F) Crown funding received to date	(G) = (B - D) 50% Crown funding applied to date	(H) Reserve interest accrued
	\$000	\$000	\$000			\$000	\$000	\$000	\$000	\$000
<b>Lake Rotoehu</b>										
Weed Harvesting	50	21	(29)		On track	8	25	13	13	0
Phosphorus Locking Soda Springs	335	5	(330)		At risk	2	168	84	2	0
<b>Total Lake Rotoehu</b>	<b>385</b>	<b>26</b>	<b>(359)</b>			<b>11</b>	<b>193</b>	<b>96</b>	<b>15</b>	<b>0</b>
<b>Lake Ōkāreka</b>										
Land Management Change	320	5	(315)		At risk	0	160	80	5	0
	0	13	13		At risk	0	0	0	13	0
<b>Total Lake Ōkāreka</b>	<b>320</b>	<b>18</b>	<b>(302)</b>			<b>0</b>	<b>160</b>	<b>80</b>	<b>5</b>	<b>0</b>
<b>Lake Rotorua</b>										
Advice and Support	500	148	(352)		Moderate risk	45	250	125	103	0
Phosphorus Locking	770	231	(539)		On track	116	385	193	116	0
Tikitere Diversions	500	86	(414)		At risk	41	250	125	45	0
Gorse	221	68	(153)		Moderate risk	34	111	55	34	0
Land Incentive Payments	7,000	157	(6,843)		On track	78	3,500	1,391	78	0
Land Incentive Board Administration	558	184	(374)		On track	36	279	140	149	0
Low Nitrogen Land Use Fund	500	75	(425)		At risk	37	250	125	37	0
Lakes Engineering Solutions	500	0	(500)		At risk	0	250	125	0	0
Wetlands	0	16	16		On track	8	0	0	8	0
Sewerage Reticulation	180	0	(180)		On track	0	90	0	0	0
<b>Total Lake Rotorua</b>	<b>10,729</b>	<b>965</b>	<b>(9,764)</b>			<b>394</b>	<b>5,365</b>	<b>2,278</b>	<b>570</b>	<b>0</b>
<b>Lake Rotoiti</b>										
Ohau Wall	0	3	3		On track	0	0	0	3	0
Sewerage Reticulation	11,445	4,934	(6,511)		On track	2,467	5,723	1,480	2,467	0
<b>Total Lake Rotoiti</b>	<b>11,445</b>	<b>4,934</b>	<b>(6,511)</b>			<b>2,467</b>	<b>5,723</b>	<b>1,480</b>	<b>2,470</b>	<b>0</b>
<b>Total Programme by Council</b>										
Rotorua Lakes Council	11,625	4,934	(6,691)			2,467	5,813	1,480	2,467	10
Bay of Plenty Regional Council	11,254	1,012	(9,925)			405	5,627	2,455	594	8
<b>Total Programme Expenditure</b>	<b>22,879</b>	<b>5,946</b>	<b>(16,616)</b>			<b>2,872</b>	<b>11,440</b>	<b>3,935</b>	<b>3,061</b>	<b>17</b>

Programme reserve account interest accrued

5.4.2 (a) Note 1: Funding detail - Council

RLC general funding	2,467
RLC reserve	2,467
BoPRC reserves	506
BoPRC targeted rates	253
BoPRC general funding	253
<b>Total funding detail - Council</b>	<b>5,946</b>

5.4.2 (b) Note 2: Funding detail - any other source

Miscellaneous income	0
<b>Total funding from any other source</b>	<b>0</b>

Less than 20%		On track	On track
Between 21 - 29%		Moderate risk	Moderate risk
Greater than 30%		At risk	At risk

Clause 5.2 / 5.4.2 (e) Interventions	(A)	(B)	(C)	D = (B+C) 5.2.2 a Total actual + forecast expenditure to year end 2018/19	E = (A-D) Forecast variance to Annual Plan over/(under) spend 2018/19	Intervention phased budget for months 1-6	Year end forecast under/overspend status	Forecast year end financial risk indicator	(F) Council funding 5.2.2 C (i)		(G) Crown Funding 5.2.2 D			(H)	(I) = (F-G)	(J) = (A-I)	5.4.2 (e)
	Council Annual Plan Budget	Actual expenditure to date 2018/19	Remaining forecast expenditure to year end	\$000	\$000				Council funding	Council reserve	Forecast Annual Work Programme Crown Funding 2018/19	Programme reserves MFE surplus / (deficit)	Reserve interest received	Funding from any other sources	Total funding required	Total Programme over/(under) spend	Forecast funding committed to deferred works
<b>Lake Rotoehu</b>	\$000	\$000	\$000	\$000	\$000				\$000	\$000	\$000	\$000	\$000	\$000	\$000	\$000	
Weed Harvesting	50	21	52	73	23	🌿	Overspend	🟡	18	18	25			0	73	23	0
Phosphorus Locking Soda Springs	335	5	7	11	(324)	🌿	Underspend	🔴	3	3	168	(11) 162		0	11	(324)	0
<b>Total Lake Rotoehu</b>	<b>385</b>	<b>26</b>	<b>59</b>	<b>84</b>	<b>(301)</b>				<b>21</b>	<b>21</b>	<b>193</b>	<b>150</b>		<b>0</b>	<b>84</b>	<b>(301)</b>	<b>0</b>
<b>Lake Ōkāreka</b>																	
Land Management Change	320	5	197	202	(118)	🌿	Underspend	🔴	50	50	160	59		0	202	(118)	0
<b>Total Lake Ōkāreka</b>	<b>320</b>	<b>5</b>	<b>197</b>	<b>202</b>	<b>(118)</b>				<b>50</b>	<b>50</b>	<b>160</b>	<b>59</b>		<b>0</b>	<b>202</b>	<b>(118)</b>	<b>0</b>
<b>Lake Rotorua</b>																	
Advice and Support	500	148	284	433	(67)	🌿	Underspend	🟢	108	108	250	34		0	433	(67)	0
Phosphorus Locking	770	231	428	660	(110)	🌿	Underspend	🟢	165	165	385	55		0	660	(110)	0
Tikitere Diversions	500	86	5	91	(409)	🌿	Underspend	🔴	23	23	250	204		0	91	(409)	0
Gorse	221	68	643	711	490	🌿	Overspend	🟢	178	178	111	(245)		0	711	490	0
Land Incentive Payments	7,000	157	1,057	1,213	(5,787)	🌿	Underspend	🔴	303	303	3,500	2,893		0	1,213	(5,787)	4,058
Land Incentive Board Administration	558	184	321	505	(53)	🌿	Underspend	🟢	126	126	279	27		0	505	(53)	0
Low Nitrogen Land Use Fund	500	75	762	837	337	🌿	Overspend	🔴	209	209	250	(168)		0	837	337	0
Lakes Engineering Solutions	500	0	292	292	(208)	🌿	Underspend	🔴	73	73	250	104			292	(208)	0
Wetlands	0	16	0	16	16	🌿	Overspend	🟢	4	4	0	(8)		0	16	16	0
Sewerage Reticulation	180	0	180	180	0	🌿	On budget	🟢	45	45	90	0		0	180	0	0
<b>Total Lake Rotorua</b>	<b>10,729</b>	<b>965</b>	<b>3,973</b>	<b>4,938</b>	<b>(5,791)</b>				<b>1,234</b>	<b>1,234</b>	<b>5,365</b>	<b>2,896</b>		<b>0</b>	<b>4,938</b>	<b>(5,791)</b>	<b>4,058</b>
<b>Lake Rototiti</b>																	
Ohau Wall	0	3	0	3	3	🌿	Overspend	🟢	1	1	0	(2)		(1)	3	3	0
Sewerage Reticulation	11,445	4,934	5,311	10,245	(1,200)	🌿	Underspend	🟢	2,561	2,561		600		0	10,245	(1,200)	3,131
<b>Total Lake Rototiti</b>	<b>11,445</b>	<b>4,937</b>	<b>5,311</b>	<b>10,248</b>	<b>(1,197)</b>				<b>2,562</b>	<b>2,562</b>	<b>5,723</b>	<b>598</b>		<b>(1)</b>	<b>10,248</b>	<b>(1,197)</b>	<b>3,131</b>
<b>Total Programme - Expenditure</b>	<b>22,879</b>	<b>5,933</b>	<b>9,539</b>	<b>15,472</b>	<b>(7,407)</b>				<b>3,868</b>	<b>3,868</b>	<b>11,440</b>	<b>3,704</b>		<b>(1)</b>	<b>15,472</b>	<b>(7,407)</b>	<b>7,189</b>
<b>Programme Expenditure by Council including interest</b>																	
Rotorua Lakes Council	11,625	4,934	5,491	10,425	(1,200)				2,606	2,606	5,813	600	54	0	10,425	(1,146)	3,131
Bay of Plenty Regional Council	11,254	999	4,048	5,047	(6,207)				1,262	1,262	5,627	3,104	25	0	5,047	(6,236)	4,058
<b>Total Programme</b>	<b>22,879</b>	<b>5,933</b>	<b>9,539</b>	<b>15,472</b>	<b>(7,407)</b>				<b>3,868</b>	<b>3,868</b>	<b>11,440</b>	<b>3,704</b>	<b>80</b>	<b>0</b>	<b>15,472</b>	<b>(7,381)</b>	<b>7,189</b>
<b>Funding by Authority including interest</b>																	
MFE	11,439	2,966	4,770	7,736	(3,703)				0	0	11,440	0	80	0	3,624	0	0
Rotorua Lakes Council	5,813	2,467	2,746	5,213	(600)				2,606	2,606	5,723	0	0	0	0	0	0
Bay of Plenty Regional Council	5,627	498	2,024	2,522	(3,103)				1,262	1,262	5,717	0	0	0	0	0	0
<b>Total Funding by Authority</b>	<b>22,879</b>	<b>5,931</b>	<b>9,539</b>	<b>15,470</b>	<b>(7,407)</b>				<b>3,868</b>	<b>3,868</b>	<b>22,879</b>	<b>0</b>	<b>80</b>	<b>0</b>	<b>3,624</b>	<b>0</b>	<b>0</b>

Report movement summary comments:	Opening Reserve Balance 2018/19	1st Qtr. Report - Forecast year end movement (expenditure & revenue)	2nd Qtr. Report - Forecast year end movement (expenditure & revenue)	2018/19 Forecast year end reserves balance	Comments
<b>By Intervention</b>					
Lake Rotoehu	0	(156)	(150)	150	
Lake Ōkāreka	0	5	(59)	59	
Lake Rotorua	2,477	(3,533)	(2,896)	5,372	
Lake Rototiti	929	(21)	(598)	1,527	
Rotorua District	0			0	
	<b>3,405</b>	<b>(3,705)</b>	<b>(3,704)</b>	<b>7,109</b>	
<b>By Council</b>					
Rotorua Lakes Council	2,477	(88)	(600)	3,077	
Bay of Plenty Regional Council	929	(3,617)	(3,104)	4,032	
	<b>3,405</b>	<b>(3,705)</b>	<b>(3,704)</b>	<b>7,109</b>	
<b>Est accrued interest</b>	0	127	80	80	
<b>Forecast reserve balance</b>	<b>3,405</b>	<b>(3,578)</b>	<b>(3,624)</b>	<b>7,189</b>	

**Report to:** Te Arawa/Rotorua Lakes Strategy Group

**Meeting Date:** 5 April 2019

**Report From:** Te Arawa Lakes Trust

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## **Scope**

This report outlines the activities of the Te Arawa Lakes Trust in the Rotorua/Te Arawa Lakes Programme.

## **Summary**

The key focus of the third quarter of the 2018/19 year has been continuing to add value to the Te Arawa Lakes Programme on behalf of our Te Arawa beneficiaries. This involves activity on Embedding Te Tūāpapa across the Programme.

## **Funding**

Following the RTALSG meeting in November 2018, Te Arawa Lakes Trust met with Minister Parker and Ministry for the Environment CEO Vicki Robertson to progress the discussion with respect to an allocation of funding to the Te Arawa Lakes Trust. The Minister was supportive of this approach and the work with MfE is ongoing.

## **Te Arawa/Rotorua Lakes Programme**

### **Te Tūāpapa is embedded into the Lakes Strategy programme**

1. This will be supported by the delivery of a series of wānanga with Regional Council staff on Te Tūāpapa to ensure that there is understanding with the Partner organisations on how to apply Te Tūāpapa within the programme and work across the Lakes.

### **Sewerage and reticulation**

2. The Te Arawa Lakes Trust is undertaking the second phase of the Cultural Impact Assessment (CIA) for the Tarawera Sewerage Scheme. This is ongoing and led by Lee Warbrick and Wally Lee.

## **Te Arawa Lakes Trust - Statutory responsibilities**

### **Lakes structures and Consents**

3. The Te Arawa Lakes Trust has completed 3 Cultural Mapping reports for the existing Lakes Structures. We are currently undertaking Cultural Mapping for Lakes Tarawera, Okareka, Rerewhakaaitu and Rotoiti.

## Te Arawa Lakes Trust - Engagement

### Catfish Volunteer Programme

4. We have 140 volunteers signed up to help with a range of tasks and have 50-60 of those actively netting.

From this month (April) our first school will be set up for netting in Lake Rotorua (7th day Adventist). They have developed their own roster which the kids will service once per week at this stage.

The Te Arawa games was a great opportunity to connect with Marae, with about 6-8 hapu involved in netting.

Total volunteer catch sits around 3000 but we expect this to increase as some of the marae/hapu will continue to contribute to the programme.

We have had quite a bit of attention from the media. Most recently the NZ Herald regarding the Te Arawa games, a feature in the NZ Fishing Magazine and Trout Fisher magazine. In addition there have been 3 radio interviews and Te Karere has expressed an interest in doing story for Television.

The highlights in the last quarter have been engaging with the schools and the Te Arawa games, our presentation to RECT on the opportunity to employ an educator in the programme.

Everyone involved has given positive feedback. William has advised that a key highlight has been seeing te Arawa whānau netting catfish and being involved in the protection of the lakes has been a great experience. As well as his significant knowledge on catfish William is also able to share his knowledge of the pest weeds that are in the Rotorua/Te Arawa Lakes.

ROTORUA LAKES COUNCIL

Chairperson and Members  
ROTORUA TE ARAWA LAKES STRATEGY GROUP

**UPDATE REPORT FROM ROTORUA LAKES COUNCIL**

**Report prepared by:** Jean-Paul Gaston, Group Manager Strategy and Partnerships

**Report approved by:** Geoff Williams, Chief Executive

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**1. PURPOSE**

To provide a short update on Rotorua Lakes Council (RLC) activity that relates to lake water quality.

**2. EXECUTIVE SUMMARY**

*RLC activity currently underway that impacts the Lakes Programme includes:*

- *Wastewater treatment and stormwater projects*
- *Planning Policy*

This report provides a brief update against each of these areas.

**3. RECOMMENDATIONS:**

1. **That the report 'Update Report from Rotorua Lakes Council' be received.**

**4. WASTEWATER TREATMENT AND STORMWATER PROJECTS****Rotomā / Rotoiti Sewerage Scheme**

- The construction of the wastewater treatment plant and land disposal system is progressing well with completion expected in June 2019.
- The construction of the Rotomā reticulation is progressing well with the sewer trunk main that will link Rotomā to the wastewater treatment plant almost complete.
- Tenders for the Rotoiti onsite systems are currently being prepared.

**Rotorua Wastewater Treatment Plant**

- The resource consent renewal application for the Rotorua Wastewater Treatment Plant has been publicly notified and submissions received. Further consultation with significant objectors is being organised. The intention is to address the key objection points before the Environment Court hearing.

**Tarawera Sewerage Scheme**

- The Tarawera Sewerage Steering Group continues with their evaluation of the sewerage options available to the community. This includes the development of the cultural impact assessment for each option. The cultural impact assessment development is facilitated by the Te Arawa Lakes Trust with significant input from the relevant Iwi and Mana whenua.

**Rotorua Urban Area Comprehensive Stormwater Resource Consent**

- The resource consent application which reflects the comments of the initial review and initial consultation with relevant Iwi stakeholders has been lodged with the Bay of Plenty Regional Council. A Cultural Impact Assessment will be submitted as part of the S92 process.

**5. PLANNING POLICY AND STRATEGY****Bay of Plenty Regional Council - Plan Change 10: *Lake Rotorua Nutrient Management (PC10)*:**

Environment Court hearings were held from Monday 4 to Friday 8 March 2019. All parties are now awaiting the Court's decision.

**6. CONCLUSION**

Rotorua Lakes Council continues to work across multiple areas towards improved lake water quality as a partner in the Rotorua Te Arawa Lakes Programme.