

Agenda for a meeting of the Waters Governance Board to be held in the Committee Rooms 1 & 2, District Office, 15 Galileo Street, Ngaruawahia on **TUESDAY 18 MAY 2021** commencing at **10.00am**.

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GJ Ion
CHIEF EXECUTIVE

TERMS OF REFERENCE AND DELEGATION

Reports to:	The Council
Chairperson:	Ms Rukumoana Schaafhausen
Membership:	Mr Garth Dibley Mr David Wright Mr Gavin Ion (Chief Executive) Ms Jackie Colliar (Board Intern)
Meeting frequency:	Monthly
Quorum:	A majority of members (excluding the Board Intern)

The Waters Governance Board is a subordinate decision-making body of the Waikato District Council established under Schedule 7 of the Local Government Act 2002.

Purpose and Terms of Reference:

1. To provide governance and oversight of the development and implementation of the Council contract with Watercare Services Limited ('Watercare').
 2. To ensure the activity goals are clearly established, and strategies are in place for achieving them.
 3. To establish policies for strengthening the performance of the water activity including ensuring management and the contractor are proactively seeking to build the business through innovation, initiative, technology, new products and the development of its business capital.
 4. To monitor the performance of management through the Chief Executive.
 5. To ensure high standards of health & safety are maintained by management and Watercare and undertaking appropriate due diligence.
 6. To decide on whatever steps are necessary to protect the Council's financial position and the ability to meet its debts and other obligations when they fall due, and ensuring that such steps are taken.
 7. To ensure the water activity's financial statements are true and fair and otherwise conform to law.
 8. To ensure the water activity adheres to high standards of ethics and corporate behavior.
 9. To ensure the water activity has appropriate risk management/regulatory compliance policies in place.
 10. To look to improve environmental outcomes from this activity.
 11. To consider kaitiakitanga as part of decision-making.
 12. To monitor and ensure Watercare are meeting their obligations.
 13. To report to Council twice yearly on progress with Waters' Management.
 14. To provide innovation and ideas that could improve profitability, service levels or environmental outcomes.
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15. To hold Watercare to account over the delivery of the operational and capital programmes.
16. To work with Council to agree the overall funding requirements of the business.
17. To undertake any other matters considered relevant by the Board or referred to the Board by the Council.

The Board is delegated the following powers to act:

- Agree the form of the transactional arrangement with Watercare.
- Negotiate with Watercare and recommend to Council the final, or any amended, contract value for waters management.
- Conclude the contract (after Council approval of contract value) and terms and conditions, including any amendments, with Watercare.
- Ensure that transitional contract requirements are met by Watercare and Council.
- Hold Watercare to account for their performance at all levels.
- Monitor and oversee the performance of staff and Watercare in terms of the water activity.
- Consider and ensure improvements or innovation are implemented by Watercare or through the Chief Executive as appropriate.
- Approve changes to the operation of the contract with Watercare.
- Develop strategies to improve contractual performance or to improve business practices.
- Recommend to Council infrastructure strategy and Asset Management Plans for adoption.
- Develop an annual works programme (operating and capital) and submit to council for final approval.
- Approve alterations and transfers within the programme of capital and operational works as prepared for the Long Term Plan and Annual Plan, subject to the overall scope of the programme remaining unchanged and the programme remaining within overall budget.
- Set and ensure Watercare's adherence to health and safety requirements, and wellbeing practices.
- Set and maintain standards of ethics and corporate behavior.
- Consider development opportunities for the Waters' business.
- Define and set levels of service for Waters' management now and in the future.
- Responsible for the financial performance of the contract and operation.
- Approve and/or amend existing or new contracts relating to the delivery of three waters' services and operation unless additional funding by the Council is required or the approval or amendment is inconsistent with Council Policy.
- Recommend to Council any new or additional funding requirements over and above that contained within the Long Term Plan.
- Develop plans to improve the overall resilience of the Waters' networks and allow for growth.

- Consider the impact of growth on the Waters' infrastructure.
- Implement and monitor the risk management framework for the waters' management and activity.
- Approve the annual and half yearly financial statements for the Waters' operation and provide any relevant commentary to the Council.
- Annually review the Board composition, structure and succession and make recommendations to council on these matters.
- Ensure the Waters' business delivered by Watercare provides value for the community in terms of the four wellbeings.
- Determine the approach for resource consent applications for the Waters' business, and monitor progress of those applications on behalf of the Council.
- Review and monitor existing strategic resource consents.
- Ensure that Kaitiakitanga and environmental outcomes are key decision making considerations for the Board.
- Uphold the vision and strategy of the Waikato-Tainui Raupatu Claims (Waikato River) Settlement Act 2010.

Open Meeting

To	Waters Governance Board
From	Ian Cathcart Special Infrastructure Projects Manager
Date	10 May 2021
Prepared by	Matt Horsfield Democracy Advisor
Chief Executive Approved	Y
Reference #	GOV1301
Report Title	Register of Interests

1. EXECUTIVE SUMMARY

A copy of the Register of Interests is attached for the Board's information. The register will be updated following receipt of information during the year.

2. RECOMMENDATION

THAT the report from the Special Infrastructure Projects Manager be received.

3. ATTACHMENTS

Register of Interests – Waters Governance Board

Register of Interests – Waters Governance Board

Ruku Schaafhausen

Companies and Trusts	Te Waharoa Investments Ltd AgResearch Miro Hautupua Ltd Contact Energy Ltd Kaitaki Guardian Services Ltd
Community organisations	Equippers Trust Tindall Foundation Princes Trust New Zealand
Other appointments	Chair, Freshwater Iwi Leaders Group
Property within the District	Nil
Any other interests	Nil

Garth Dibley

Companies and Trusts	Water New Zealand – Director
Community organisations (membership)	Electricity Networks Association – member E-Charge working group – MfE member
Other appointments	Director of Smartco Infratec NZ Ltd – Chairperson
Property within the District	Yes - Tamahere
Any other interests	Nil

David Wright

Companies and Trusts	Director, David Wright Limited Trustee, Tervuren Trust Trustee, Solomon Islands Tourism Infrastructure Development Fund (Incorporated) Chief Executive, Red Meat Profit Partnership Chair of Waimea Water Ltd Chair, Solomon Islands Airport Corporation Limited Haapa Research Limited
Community organisations	Chair, Tokelau Renewable Energy Steering Group Member, Audit and Risk Committee, Internet New Zealand Incorporated
Other appointments	Chair, Central Air Ambulance Rescue Limited Chair, Search and Rescue Services Limited
Property within the District	Nil
Any other interests	Nil

Gavin Ion

Companies and Trusts	Trustee and Beneficiary in a family trust
Community organisations	<p>Member Swimming Waikato Technical Panel</p> <p>Member Swimming New Zealand Technical Advisory Committee</p> <p>Chairperson Swimming Waikato</p> <p>Member of the Waikato Regional Sports Facility Plan Steering Group</p> <p>Member of Institute of Directors</p> <p>Member of International City Managers' Association</p> <p>Member of Chartered Accountants of Australia and New Zealand</p> <p>Member of Business Leaders Health & Safety Forum Steering Group</p> <p>RMA Commissioner</p> <p>Member of the Waikato Caring for Communities Committee</p>
Other appointments	<p>Chief Executive, Waikato District Council</p> <p>Director, Waikato Local Authority Shared Services Limited</p> <p>Chair, Audit & Risk Committee (WLASS)</p>
Property within the District	Nil
Any other interests	Nil

Jackie Colliar

Companies and Trusts	Te Whakakitenga O Waikato Inc Member of Te Arataura
Community organisations	Nil
Other appointments	Trustee and Chair of Taniwha Marae Waipa District Council – Co-Governance Committee Waikato Regional Council – Co-Governance Committee Waikato River Authority Board Member
Property within the District	Nil
Any other interests	Employee of Hamilton City Council Project Lead for the Subregional Three Waters project on behalf of Future Proof Project Manager of the Hamilton Waikato Metro Wastewater Detailed Business Case Project

Open Meeting

To	Waters Governance Board
From	Gavin Ion Chief Executive
Date	10 May 2021
Prepared by	Matt Horsfield Democracy Advisor
Chief Executive Approved	Y
Reference #	GOV1301
Report Title	Confirmation of Minutes

1. EXECUTIVE SUMMARY

To confirm the minutes of the Waters Governance Board meeting held on 30 March 2021

2. RECOMMENDATION

THAT the minutes of the meeting of the Waters Governance Board held on Tuesday 30 March 2021 be confirmed as a true and correct record of that meeting.

3. ATTACHMENTS

WGB Minutes – 30 March 2021

MINUTES of a meeting of the Waters Governance Board Meeting of the Waikato District Council held via audio-visual conference on **TUESDAY, 30 MARCH 2021** commencing at **10.20am**.

Present:

Ms R Schaafhausen (Chair)
Mr D Wright (*via Audio Visual Conference*)
Mr G Dibley
Mr GJ Ion (Chief Executive, Waikato District Council)

Attending:

Ms G Parson (Raglan Community Board Chair)

Mr M Telfer (Watercare)
Mr R Kumar (Watercare)

Mr I Cathcart (Special Infrastructure Projects Manager)
Ms C Nutt (Waters Contract Relationship Manager)
Mr M Horsfield (Democracy Advisor)

APOLOGIES AND LEAVE OF ABSENCE

Resolved: (Mr Ion/Mr Dibley)

THAT the apologies from Mr King and Ms Pidduck be received.

CARRIED

WGB2103/01

CONFIRMATION OF STATUS OF AGENDA ITEMS

Resolved: (Mr Ion/Ms Schaafhausen)

THAT the agenda for a meeting of the Waters Governance Board Meeting held on Tuesday, 29 March 2021 be confirmed and all items therein be considered in open meeting with the exception of those items detailed at agenda item 6 which shall be discussed with the public excluded.

CARRIED

WGB2103/02

DISCLOSURES OF INTEREST

There were no disclosures of interest.

CONFIRMATION OF MINUTES

Resolved: (Mr Ion/Mr Dibley)

THAT the minutes of a meeting of the Waters Governance Board Meeting held on Tuesday, 23 February 2021 be confirmed as a true and correct record of that meeting.

CARRIED

WGB2103/03

REPORTS

Actions Register
Agenda Item 5

The report was taken as read and the following matters were noted:

- Meeting with the Minister of Local Government – Meeting date yet to be formalised.

ACTION: The Chief Executive to include Raglan Wastewater Treatment Plant consultation group expectations within the draft letter outlining issues to be discussed at the proposed meeting with the Minister of Local Government and Water Governance Board representatives.

- Initial meeting has been held regarding the power outage at the Huntly Water Plant. The next meeting will be planned and action lies with Watercare.
- Te Akau water treatment plant – Resolution from previous meeting to shut down the plant were being actioned.

Resolved: (Mr Ion/Ms Schaafhausen)

THAT the report from the Special Infrastructure Projects Manager be received.

CARRIED

WGB2103/04

Health and Safety Audit
Agenda Item 6.1

The Special Infrastructure Projects Manager noted the following matters:

- Audit was conducted in February 2021 over a two day period.
- Outcome of the audit report was positive.
- Key areas addressed were inspections and health and safety audits. Recommendations were produced that more management should be involved with audits and inspections.
- Recommendations provided regarding the use of the Icare tool.
- Subcontractors management - recommendation provided that it should be included in more regular auditing.
- Critical risks:
 - Confined Spaces - Confined space activities were rare. Specific training for confined spaced entry has been undertaken.
 - Asbestos - Assessments completed of all sites. Risks are static. Current recommendation was to leave the sites undisturbed. Need to reinforce awareness of the existence of asbestos on site.
 - Lone working Recognised previous incidents. Educating staff to have phones available at all times for safety. Concern that areas of the district do not have phone coverage. Action within audit report to cease lone working if there isn't phone coverage.
- A diverse range of staff needed to be interviewed within the audit process.

ACTION: Next annual health and safety audit to include less infield analysis, address inconsistencies of personal protection equipment and public safety.

- Job safety analysis.

ACTION: Mr Telfer to discuss with the Watercare Health and Safety team regarding a simplified Job Safety Analysis for low risk work.

Resolved: (Ms Schaafhausen/Mr Ion)

THAT the report from the Special Infrastructure Projects Manager be received.

CARRIED

WGB2104/05

Three Waters Performance Report for February 2021

Agenda Item 6.2

The Special Infrastructure Projects Manager noted the following matters:

- There had been zero loss time due to injuries for February 2021.

ACTION: Mr Telfer to report back to the board regarding near-miss reporting data.

- Water faults attendance under 40 mins – Due to the travel time to Raglan and Port Waikato it was noted this measure was difficult to achieve in these areas. Process in place to extend the expected attendance time for water faults in Raglan and Port Waikato.
- Fibre-strike and third party damage.
- More information needed regarding the presence of indoor Asbestos.

ACTION: Watercare to report back to the board regarding the presence of indoor asbestos in the next Three Waters Performance Report.

- Te Akau Water Treatment Plant – Chlorine dosing requires close monitoring. Reduced flow through water treatment pumps. Damage to the bore lining restricted efforts to remove the pump last year. Inspection only reinforces decision to close the plant. Transition from treated water to tankered water nearly completed. Te Akau was now considered part of the Raglan catchment.

ACTION: Watercare to inform the board whether Chlorate or Bromate precipitates with other particles.

- Te Kauwhata Water Association Incident – Scouring work was not notified. Fault occurred but did not affect water supply to water treatment plant.
- Meremere Wastewater Treatment Plant upgrade making good process.
- Botulism – Wastewater Treatment Plants are being monitored for signs of botulism. Measures to scare birds away from the ponds were in place.
- Huntly Wastewater Treatment pond desludging has commenced.
- River intake screen cleaning has occurred in Huntly, Ngaruawahia and Te Kauwhata Water Treatment Plants.
- Reservoir rehabilitation work at Bow Street Reservoir in Raglan has been completed.
- Drone work to identify water leaks in Raglan completed. Investigations will now be undertaken in the areas identified by the drone.

- Ngaruawahia pump station and rising main upgrade concept was completed and detailed in March 2021.
- Stantec undertaking District-Wide Water Supply Demand Management Plan.
- Design for the pipeline for River Road North Development has been completed.
- Synlait future flows continue to be uncertain.
- Ongoing interaction with Northgate Development.
- Tuakau Interceptor Pump Station upgrade underway.
- Compliance Te Akau, in the interim before new supply is that it is compliant and safe.

ACTION: The Special Infrastructure Projects Manager to report back to the Water Governance Board regarding additional information relating to the Raglan compliance notice.

Resolved: (Ms Schaafhausen/Mr Ion)

THAT the report from the Special Infrastructure Projects Manager be received.

CARRIED

WGB2103/06

Small Water Treatment Plants

Agenda Item 6.3

The Special Infrastructure Projects Manager noted the following matters:

- Onewhero and Port Waikato Water Treatment Plants - Plants have different issues and need to be treated differently. Both plants do not meet new water quality standard but were currently compliant.

Resolved: (Mr Ion/Mr Dibley)

THAT the report from the Special Infrastructure Projects Manager be received.

CARRIED

WGB2103/07

Water Services Bill Submission
Agenda Item 6.4

The Special Infrastructure Projects Manager noted the following matters:

- An update regarding the Central Government Water Reform Programme was given.

Resolved: (Ms Schaafhausen/Mr Dibley)

THAT the report from the Special Infrastructure Projects Manager be received and retrospective approval given for the submission.

CARRIED

WGB2103/08

Watercare Systems Transition Update
Agenda Item 6.5

The Special Infrastructure Projects Manager noted the following matters:

- Retiring Council's asset information system and transferring to Watercare's asset management system.
- Transfer of three water assets GIS to Watercare's GIS platform. Council retaining it's own Waters GIS platform which is also available to the public.
- Customer service request two-way interface. Upgrade to TechOne system has gone live.
- Project teams have been established and a scoping meeting was held.

Resolved: (Mr Ion/Mr Dibley)

THAT the report from the Special Infrastructure Projects Manager be received.

CARRIED

WGB2103/09

Water charges and fair access to water in the Waikato District
Agenda Item 6.6

The Chief Executive noted the following matters:

- Limited solutions available.
- Watercare to view the report.

- Difficulties surrounding variable conditions.

Resolved: (Ms Schaafhausen/Mr Ion)

THAT the report from the Chief Executive be received.

CARRIED

WGB2103/10

Water Supply and Stormwater Bylaws

Agenda Item 6.7

The Special Infrastructure Projects Manager noted the following matters:

- Council workshop – Divided discussion from Councillors regarding water leak relief. Another workshop will be held regarding the new draft policy with Councillors.

Resolved: (Ms Schaafhausen/Mr Ion)

THAT the report from the Special Infrastructure Projects Manager be received.

AND THAT the Waters Governance Board provides guidance to staff on the content of the draft Water Supply Bylaw and the proposed Stormwater Bylaw.

CARRIED

WGB2103/11

Hamilton – Waikato Metropolitan Area Wastewater Project Update

Agenda Item 6.8

The Chief Executive noted the following matters:

- Option 4A (Five Plant Option) was the preferred staff recommended wastewater servicing option.

Resolved: (Ms Schaafhausen/Mr Dibley)

THAT the report from the Acting General Manager Community Growth be received.

CARRIED

WGB2103/12

EXCLUSION OF THE PUBLIC

Agenda Item 7

Resolved: (Mr Ion/Ms Schaafhausen)**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 each matter to be considered	Reason for passing this resolution in relation to each matter	Ground(s) under section 48(1) for the passing of this resolution
Item 1 Confirmation of Minutes	Good reason to withhold exists under Section 6 or Section 7 Local Government Official Information and Meetings Act 1987	Section 48(1)(a)
Item 2.1 Actions Report		
Item 2.2 Contract Financial Report – July 2020		
Item 2.3 3 Waters Long Term Plan Schedule		
Item 2.4 Te Kauwhata Waters Association Water Supply and Operations Agreement - Update		

This resolution is made in reliance on section 48(1)(a) of the Local Government Official Information and Meetings Act 1987 and the particular interest or interests protected by Section 6 or Section 7 of that Act which would be prejudiced by the holding of the whole or relevant part of the proceedings of the meeting in public, as follows:

Item No.	Section	Interest
1		Refer to the previous Public Excluded reason in the agenda for this meeting.

- 2.1 Refer to the previous Public Excluded reason in the agenda for this meeting.
- 2.2 7(2)(b)(ii) To protect information where the making available of the information would be likely unreasonably to prejudice the commercial position of the person who supplied or who is the subject of the information.
- 7(2)(j) To prevent the disclosure or use of official information for improper gain or improper advantage.
- 2.3 7(2)(b)(ii) To protect information where the making available of the information would be likely unreasonably to prejudice the commercial position of the person who supplied or who is the subject of the information.
- 7(2)(j) To prevent the disclosure or use of official information for improper gain or improper advantage.
- 2.4 7(2)(b)(ii) To protect information where the making available of the information would be likely unreasonably to prejudice the commercial position of the person who supplied or who is the subject of the information.
- 7(2)(j) To prevent the disclosure or use of official information for improper gain or improper advantage.

AND THAT Mr Telfer and Mr Kumar be permitted to remain at this meeting, after the public has been excluded, because of their knowledge of Watercare. This knowledge, which will be of assistance in relation to the matter to be discussed, is relevant to that matter because of Watercare's role and responsibility for those matters.

CARRIED

WGB2103/13

Having resumed open meeting and there being no further business the meeting was declared closed at 12:56PM

Minutes approved and confirmed this day of 2020.

Rukumoana Schaafhausen
CHAIRPERSON

Open Meeting

To	Waters Governance Board
From	Ian Cathcart Special Infrastructure Projects Manager
Date	10 May 2021
Prepared by	Matt Horsfield Democracy Advisor
Chief Executive Approved	Y
Reference #	GOV1301
Report Title	Actions Report

1. EXECUTIVE SUMMARY

To update the Waters Governance Board on actions arising from previous meetings.

2. RECOMMENDATION

THAT the report from the Special Infrastructure Projects Manager be received.

3. ATTACHMENTS

Actions Register

Waters Governance Board Actions Register

OPEN MEETING

Meeting Date	Action	To Action	When	Status
20/11/19	<p>The Board to be provided with:</p> <ul style="list-style-type: none"> ▪ The proposed Te Kauwhata water take consents strategy. 	Ian Cathcart/ Watercare	Now June/July 2021	<p>Once the water supply contract is signed (95+% complete) WDC will continue engagement with TKWA to secure the water take.</p> <p>Met TKWA 10 March. They have met a consultant (Kelly Dell of Environmental Management Solutions) with experience of consent applications and have got the best template for an application from WRC to use as a basis. A further meeting with Watercare included was undertaken late April. At this meeting a concept of a “Eutopia for water in TK” was conceptualised. This involves the integration of water supply, wastewater discharge and irrigation supply into a system that is more circular than ever. This complexity has been raised with the innovation team at Council as to how we can drive some very innovative thinking with this unique situation involving the TKWA irrigation network.</p>
11/2/2019	Investigation into forums held by other Councils in respect of engagement with mana whenua. Iwi and Community Partnerships Manager, Sam Toka, to present the vision to the next meeting of the Board.	Sam Toka / Gavin Ion	May 2021	<p>Council has agreed on the formation of four forums to cover the District. The issue of how to recognise the time commitment from mana whenua is still to be worked through.</p> <p>Waikato-Tainui have requested further engagement on this matter.</p>

Waters Governance Board²³ Actions Register

Meeting Date	Action	To Action	When	Status
25/8/2020	<u>Waters Long Term Plan Performance Targets</u> Watercare to report back to the next meeting of the Board with an action plan to consider real water loss results.	Sharon Danks	June 2021	Water Demand Management Plan update has been tendered and awarded and will be finalised by June 2021. This will also suggest improvement to reduce Water Losses.
23/2/2021	<u>Meeting with the Minister of Local Government</u> Draft a letter outlining issues to be discussed at the proposed meeting between the Minister of Local Government and WGB representatives in Wellington. Circulate the draft letter to Board members for comment prior to being sent and agree on a meeting dated with the Minister.	GI	April 2021	Minister's office would not commit to a meeting due to the recent Covid-19 lockdowns affecting alter levels. Mayor Sanson and other Waikato/Bay of Plenty Mayors are meeting with Minister Mahuta mid May. The Board Chair has been invited to attend. GI circulated email and presentation on this.
23/2/2021	<u>Te Akau Water Treatment Plant – Chlorate and Bromate Non-Compliance and Operational Limitations Update</u> Watercare to provide clarification and a recommended action to the next Board meeting, addressing the public health risks at the Port Waikato and Onewhero water treatment plants.	WC	June 2021	Work has been commissioned to determine the impacts on the Port Waikato and Onewhero plants.
23/2/2021	<u>Three Waters performance Report for December 2020/January 2021</u> Watercare to provide Mr Dibley with information on power outages.	WC	April 2021	An initial meeting has been undertaken to raise the issue and a further meeting is planned to put actions in place solve it.

Waters Governance Board Actions Register

Meeting Date	Action	To Action	When	Status
30/03/2021	<u>Draft Letter – Minister of Local Government and Water Governance Board representatives</u> The Chief Executive to include Raglan Wastewater Treatment Plant consultation group expectations within the draft letter outlining issues to be discussed at the proposed meeting with the Minister of Local Government and Water Governance Board representatives.	GI		It is proposed that a meeting with the Minister is asked for following on from the Waikato/Bay of Plenty Mayors.
30/03/2021	<u>Health and Safety Audit</u> Next annual health and safety audit to include less infield analysis, address inconsistencies of personal protection equipment and public safety.	MT	May 2021	Confirmed the next audit will balance infield analysis and the personal protection issue around long-longs has been addressed. Emergency buttons will be investigated and reported in July 2021.
30/03/2021	<u>Job Safety Analysis</u> Mr Telfer to discuss with the Watercare Health and Safety team regarding a simplified Job Safety Analysis for low risk work.	MT	July 2021	Report back in July
30/03/2021	<u>Three Waters Performance Report for February 2021</u> Mr Telfer to report back to the board regarding near-miss reporting data.	MT	July 2021	Report back in July
30/03/2021	<u>Indoor Asbestos</u> Watercare to report back to the board regarding the presence of indoor asbestos in the next Three Waters Performance Report.	MT	May 2021	Investigation completed and asbestos removed from sites. No indoor asbestos was identified.
30/03/2021	<u>Te Akau Water Treatment Plant</u> Watercare to inform the board whether Chlorate or Bromate precipitates with other particles.	MT	May 2021	Confirm the issue has been addressed with the change to the tanker supply. No further action required.
30/03/2021	<u>Raglan Compliance Notice</u> The Special Infrastructure Projects Manager to report back to the Water Governance Board regarding	IC	July 2021	Report back in July

Waters Governance Board Actions Register

Meeting Date	Action	To Action	When	Status
	additional information relating to the Raglan compliance notice.			

Open Agenda

From	Gavin Ion Chief Executive Waikato District Council
Date	6 May 2021
Prepared by	Vishal Ramduny Strategic Projects Manager
Chief Executive Approved	Y
DWS Document Set #	GOV1318 / 3077524
Report Title	Hamilton-Waikato Metropolitan Wastewater Detailed Business Case Project Update and Confirmation of the Preferred Option for the Southern Hamilton-Waikato Metropolitan Wastewater Treatment Plant

I. PURPOSE

The purpose of this report is for the Waters Governance Board (WGB) to:

- Receive an update on the Hamilton-Waikato Metropolitan Wastewater Detailed Business Case (DBC) Project.
- Confirm the preferred solution for the southern Hamilton-Waikato metropolitan wastewater treatment plant.
- Provide input on the content of a proposed Memorandum of Understanding (MoU) which will help secure commitments from partner councils to implement the preferred option from the DBC.

In March 2021, the WGB noted Option 4A (Five Plant Option) as the preferred staff-recommended wastewater servicing option to take forward for refinement, and to inform the completion of the Southern Hamilton Waikato Metropolitan Wastewater DBC.

The Project Governance Group met on 16 April 2021 and approved the recommendation that Option 4A be taken forward as the preferred option for further refinement and completion of the DBC. In addition to confirming the preferred option, the Governance Group directed the Project Team to develop a Memorandum of Understanding (MOU) to secure commitments to implement the preferred option from the DBC. The Governance Group also directed the Project Team to provide advice on how to reflect the preferred option in 2021 - 2031 Long Term Plans and to come up with the growth thresholds and triggers that will match the sequence of growth with the staged development of the new southern wastewater plant.

The Project Team is working through these actions as well as the activities needed to complete the southern and northern metropolitan area detailed business cases.

The Hamilton-Waikato Metropolitan Wastewater Detailed Business Case Project is being delivered through a partnership between Hamilton City Council, Waikato District Council, Waipa District Council, Waikato-Tainui, and Mana Whenua. The partnership is honoured through the Project Governance Group (which provides political oversight and direction on the project), a Project Control Group (made of the Chief Executives and/or relevant appointees from the respective organisations) and a technical project team.

2. RECOMMENDATION

THAT the report from the Chief Executive be received.

AND THAT the Waters Governance Board confirm Option 4A as the preferred wastewater servicing option for the southern Hamilton-Waikato metropolitan area on the understanding that this option will entail the development of a new wastewater treatment plant located south of Hamilton as well as significant upgrades at Pukete and Cambridge wastewater treatment plants. Upgrades to the Matangi and Tauwhare Pa systems (within the Waikato district) will also be considered in the short term.

AND FURTHER THAT the Waters Governance Board provide feedback on the content of a Memorandum of Understanding to secure commitments to implement the preferred option from the Southern Hamilton-Waikato Metropolitan Wastewater Detailed Business Case.

3. PROJECT UPDATE AND DISCUSSION

On 16 April 2021, the Project Governance Group confirmed Option 4A (5 plant option) as the preferred wastewater servicing option for refinement and completion of the southern Hamilton-Waikato metropolitan area DBC.

In addition to confirming the preferred option for the southern metropolitan area, the Governance Group agreed to the development of a MOU (or other similar mechanism) to secure commitments to implement the preferred option from the business case. Specifically, the Governance Group directed the Project Team to provide advice on:

- i. A MoU (or other similar mechanism) to secure commitments to implement the preferred option from the business case.
- ii. How to reflect the preferred option in the 2021 - 2031 Long Term Plans of the respective councils.
- iii. Growth thresholds and triggers that will match the sequence of growth with the staged development of the new southern wastewater treatment plant.

The Governance Group also requested an independent peer review of the business case documents prior to endorsement and approval being sought.

An outline of the content of the MOU will be discussed, and direction sought from the Project Control and Governance Group members in May. Initial thoughts on the key terms the MOU could include:

- a. Defining who the lead council will be for each project within the preferred option.
- b. Confirming the minimum treatment performance standards.
- c. Confirming approaches to land acquisition for the new southern wastewater treatment plant including potential funding split between councils for land acquisition costs.
- d. Confirming the funding arrangements that will apply to each project.
- e. Agreement on approach to dealing with servicing provision across council boundaries.
- f. Confirming approaches to asset ownership for each project.
- g. Agreeing a future governance structure.

The items included in the MOU could fall into one of the following three categories:

- a. An agreement between parties to work together to agree a position/commitment
- b. Agreement of the principles that are to apply.
- c. An agreed firm position / commitment.

The WGB should also note that Hamilton City Council is making a submission to the Waipa District Council and the Waikato District Council 2021-31 Long-Term Plans.

Next Steps

Key project activities underway and planned to be completed through May and June 2021 include:

- a. Development and refinement of the southern metropolitan preferred servicing solution, including completion of site selection investigations, consenting strategies, cost estimates and staging of development.
- b. Sensitivity assessments on the preferred servicing solution to inform staging and associated triggers.
- c. Closer assessment of servicing needs for areas south of the Hamilton boundary.
- d. Stakeholder workshop on 13 May 2021 to seek input into the refined preferred option.
- e. Project Control and Governance Group Meetings to seek input into and direction on:
 - i. Refined servicing option,
 - ii. MOU to secure commitment to implementing the preferred option,
 - iii. Feedback on draft financial and management cases.
- f. Delivery of the draft Southern Hamilton-Waikato Metropolitan Wastewater Detailed Business Case for feedback.
- g. Completing project management documentation and planning for the northern metropolitan wastewater business case.
- h. Initiating technical investigations for the northern Hamilton-Waikato metropolitan business case.

The original completion date for the Southern Hamilton-Waikato Metropolitan Wastewater Detailed Business Case was late May 2021. The forecast completion date for the detailed business case is now August 2021 with the draft to be presented to the WGB in July 2021.

4. CONSIDERATIONS

5.1. Financial Considerations

There are no financial implications in relation to this current report. However, implementing the DBC recommendations is likely to have significant financial implications for the 2021-31 LTPs if adopted by the partner councils. Successful implementation of the new southern plant included in the preferred option requires financial contribution and multi-partner co-ordination to complete land acquisition and (potentially) designation and consenting processes over the next three years and beyond. This financial contribution is needed in addition to the significant investment needed at the Cambridge and Pukete plants and the investments needed at Matangi and Tauwhare Pa.

Waikato District Council has an unbudgeted provision of \$4M in its draft 2021-31 Long Term Plan to signal a contribution toward land purchase, designation, and consenting processes for a new southern plant. This unbudgeted provision is to inform future funding needed to implement the new southern treatment plant, and reinforce the decision made to formulate a MOU (or other mechanism) as a clear recognition that all partners are committed to delivering the sub regional solutions the DBC is indicating.

Hamilton City Council has funded \$9M in years 1 - 3 of its draft 2021-31 Long Term Plan as a contribution toward land purchase, designation and consenting processes for a new southern plant. HCC has also noted significant (unfunded) investment to commence construction of a new southern plant from Year 10 of its draft 2021 - 31 Long Term Plan.

Waipa District Council is to include the necessary budgetary provision or note an unbudgeted provision in its final approved 2021-31 Long Term Plan to support an equitable contribution to future-proof the delivery of a new southern wastewater plant.

5.2. Legal and Policy Considerations

Staff confirm that this project complies with the Council's legal and policy requirements.

5.3. Strategy and Policy Considerations

The purpose of local government includes promotion of the social, economic, environmental, and cultural wellbeing of communities in the present and for the future ('the 4 well-beings').

The Hamilton metropolitan area wastewater detailed business case(s) adopts the Treasury Better Business Case Programme Business Case model. The 4 wellbeing's will be core considerations in delivering the business case in addition to Te Ture Whaimana o te Awa Waikato – The Vision and Strategy for the Waikato River and relevant Iwi Management Plans.

5. SIGNIFICANCE & ENGAGEMENT

Staff have considered the key considerations under the Significance and Engagement Policy and have assessed that the recommendation(s) in this report has/have a low level of significance. Given the low level of significance determined, the engagement level is low. No engagement is required for the recommendations being considered.

6. ATTACHMENTS

Nil.

Open Meeting

To	Waters Governance Board
From	Ian Cathcart Special infrastructure Projects Manager
Date	16 April 2021
Prepared by	Carole Nutt Waters Contract Relationship Manager
Chief Executive Approved	Y
Reference #	WGB2021; ECM ID: #
Report Title	Three Waters Performance Report for March 2021

1. EXECUTIVE SUMMARY

A copy of the Three Waters Performance Report for March 2021 is attached for the Board's information.

2. RECOMMENDATION

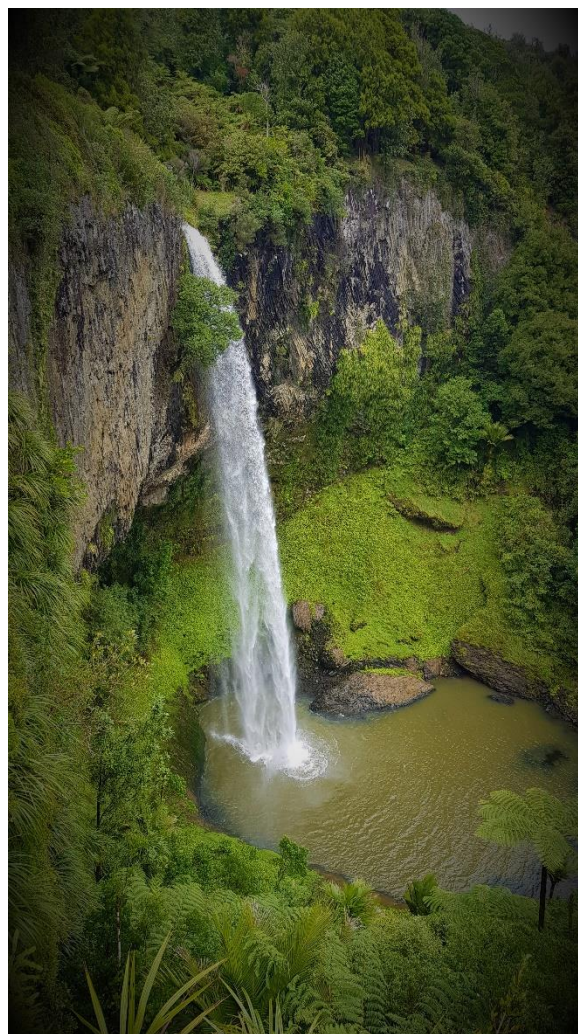
THAT the report from the Special Infrastructure Projects Manager be received.

3. ATTACHMENTS

- Waikato District Council Three Waters Performance Report for March 2021

WAIKATO DC THREE WATERS MONTHLY PERFORMANCE REPORT

MARCH 2021



Mathew Telfer
Operations Manager
Watercare Waikato
February 2021

1. Health & Safety

HIGHLIGHTS AND LOWLIGHTS

- There were zero Lost Time Injuries (LTI) and 0 Restricted Duties Injury (RDI) involving Watercare employees in March.
- There were zero recordable injuries involving contractors in March.
- The 12-month average Lost Time Injury Frequency Rate (LTIFR) for employees is 3.56 per million hours, under our target of ≤ 5 .
- The 12-month average Total Recordable Injury Frequency Rate (TRIFR) for employees is 7.2 per million hours, under our target of ≤ 20 .
- Impac undertook the external health and Safety audit in February, and the report was received in March and presented to the Governance Board.
- The Te Akau plant transition to tanker supply has been prepared in March, the change over will occur in the first week of April.
- Asbestos surveys have been completed at Ngaruawahia WTP, Huntly WTP, TeKauwhata WTP and TeKauwhata WWTP. An external provider will remove asbestos debris from the Huntly and Ngaruawahia plants in April, and asbestos signage will be installed identifying static asbestos. The asbestos maps have been added to the site induction.

HEALTH, SAFETY & WELLNESS UPDATE

Worker, type of incident, and location	Critical Risk (Yes/No) and Severity	Description of injury/incident	Our learnings	The actions we have taken
No incidents in March	N/A	N/A	N/A	N/A

AUDITS, MANAGEMENT REVIEWS, INSPECTIONS, SAFETY OBSERVATIONS

- The 6-monthly review of the HSW Management System was completed in February.
- An all sites condition assessment of mechanical, control, and electrical was completed in March.
- One back strain was reported in March. No lost time.

2. Key Performance Indicator

KPI – description	Results	Target 2020/2021
Water		
<p>The extent to which the Council’s drinking water supply complies with Part 4 of the drinking water standards (bacteria compliance criteria). (Number of zones that comply, maximum 18)</p>	18	18
<p>The extent to which the Council’s drinking water supply complies with Part 5 of the drinking water standards (bacteria compliance criteria). (Number of zones that comply, maximum 18)</p>	15	15
<p>Where Council attends a call-out in response to a fault or unplanned interruption to its networked reticulation system, the following median response times measured: - Attendance for urgent call-outs: from the time that Council receives a notification to the time that service personnel reaches the site.</p>	<p>Mar - 37 July 2020-Mar 2021 total - 36</p>	≤ 40 mins
<p>Where Council attends a call-out in response to a fault or unplanned interruption to its networked reticulation system in Raglan and Port Waikato, the following median response times measured: - Attendance for urgent call-outs: from the time that Council receives a notification to the time that service personnel reaches the site.</p>	<p>Mar – 21 July 2020-Mar 2021 - 24</p>	≤ 1 hour (60 mins)
<p>Where Council attends a call-out in response to a fault or unplanned interruption to its networked reticulation system, the following median response times measured: - Resolution of urgent call-outs: from the time that Council receives a notification to the time that service personnel confirms resolution of the fault or interruption.</p>	<p>Mar - 144 July 2020-Mar 2021 Result - 108</p>	≤ 120 mins

Where Council attends a call out in response to a fault or unplanned interruption to its networked reticulation system, the following median response times measured:
 - Attendance for non-urgent call-outs: from the time that Council receives a notification to the time that service personnel reaches the site

Mar - 1 July 2020-Mar 2021 Result - 1	≤ 3 days
---	----------

Where Council attends a call out in response to a fault or unplanned interruption to its networked reticulation system, the following median response times measured:
 - Resolution of non-urgent call-outs: from the time that Council receives a notification to the time that service personnel confirms resolution of the fault or interruption.

Mar - 1 July 2020-Mar 2021 Result - 1	< 3days
---	---------

The total number of complaints received by Council about any of the following (expressed per 1000 connections to the networked reticulation system):
 - Drinking water clarity
 - Drinking water taste
 - Drinking water odour
 - Drinking water pressure or flow
 - Continuity of supply
 - The local authority's response to any of these issues

Mar – 1.06 July 2020-Mar 2021 Result - 13.09	≤ 22/1000
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<p>The number of dry weather sewage overflows from Council's system is expressed per 1000 sewage connections to that sewage system. - Non-sensitive receiving environments</p>	<p>Mar – 0.24 July 2020- Mar 2021 Result - 2.38</p>	<p>≤ 2/1000 Note: Over the target, primarily due to Fibre strikes in the district.</p>
<p>The number of dry weather sewage overflows from Council's system is expressed per 1000 sewage connections to that sewage system. - Sensitive receiving environments</p>	<p>Mar – 0.00 July 2020- Mar 2021 Result – 0</p>	<p>≤ 2/1000</p>
<p>Where Council attends to sewage overflows resulting from a blockage or other fault in its sewage system, the following median response times measured: - Attendance time: from the time that Council receives a notification to the time that service personnel reaches the site.</p>	<p>Mar - 46 July 2020-Mar 2021 Result - 41</p>	<p>≤ 1 hour (45 mins)</p>
<p>Where Council attends to sewage overflows resulting from a blockage or other fault in its sewage system in Raglan, the following median response times measured: - Attendance time: from the time that Council receives a notification to the time that service personnel reaches the site.</p>	<p>Mar – 22 July 2020 – Mar 2021 Result - 35</p>	<p>≤ 1 hour (60 mins)</p>
<p>Where Council attends to sewage overflows resulting from a blockage or other fault in its sewage system, the following median response times measured: - Resolution time: from the time that Council receives a notification to the time that service personnel confirms resolution of the blockage or other fault.</p>	<p>Mar - 186 July 2020-Mar 2021 Result - 143</p>	<p>≤ 4 hours (240 mins)</p>
<p>The total number of complaints received by Council about any of the following (expressed per 1000 connections to the sewage system): - Sewage odour - Sewage system faults - Sewage system blockages - Council's response to issues with its sewage system</p>	<p>Mar – 0.95 July 2020- Mar 2021 Result - 6.74</p>	<p>≤ 10/1000</p>

Health and Safety

<i>Safety: Lost time injury frequency rate (LTIFR) per million hours worked</i>	3.56	≤ 5
<i>Safety: Total recordable injury frequency rate (TRIFR) per million hours worked</i>	7.2	≤ 20
<i>Safety: 100% of Notifiable (or serious non-notifiable) Events reported to WDC within 2 hours of the occurrence</i>	100%	100%
<i>Safety: 100% of Notifiable Event reports supplied to WDC within 21 business days</i>	No events	100%
<i>Safety – the percentage of complaints resolved within ten working days</i>	100%	95%
<i>Safety- Health and safety Audit programme and action plan completed (6 monthly and then annually)</i>	1	1
<i>Safety - All site emergency plans to be drilled six monthly as per drill schedule</i>	80%	> 100%
<i>Safety - Monthly Health and safety meeting held with all workers</i>	100% Confined Space Entry	> 90%
<i>Safety-Critical risk audit to be conducted by HSW BP Bi-monthly</i>	1	1
<i>Safety -Actions required to be closed within 1 month</i>	100%	> 90%

3. Operational Update

3.1 Treatment

Health and Safety:

One back strain was reported in March but did not result in lost time.

Asbestos surveys have been completed at Ngaruawahia WTP, Huntly WTP, TeKauwhata WTP and TeKauwhata WWTP. The recommendations will be completed in April.

Water Governance Board

Site visit to Raglan Water and Wastewater Treatment plants completed 30/03/2021.

Te Akau Water treatment

The Te Akau WTP bore raw water quality, and the condition of the bore casing is deteriorating.



The potable water receiving tank, transfer pump, and control systems were designed and installed in March. The cutover is planned for early April (after Easter) and will ensure we continue to provide potable water supply to the existing reservoir.

Te Kauwhata Water Treatment Plant

TKWA issued Watercare an instruction to double the CL2 dose rate to the TKWA irrigation main. This was implemented on Monday the 8th of February. Watercare will meet with the TKWA to discuss options for flow-paced chlorine dosing of their raw water irrigation main.

Staff and Training:

Quinn Coyle has completed Dangerous Goods licence (D endorsed) training.

Production and Networks staff have completed “Workplace First Aid” training.

Personal Safety and Conflict training have been organised for staff mid-April.

General Workflow

- All wastewater treatment plant ponds continue to be monitored for signs of botulism affecting wildlife. The numbers of affected wildlife are decreasing. Water temperatures are cooling with rain and ambient temperature change. The ponds are still showing signs of solids lifting from the pond floor. This is having a negative impact on suspended solids and ammonia nitrate levels.
- Huntly WWTP oxidation pond desludging is now making good progress.
- Ngaruawahia WWTP, we are observing large volumes of “Daphnia” accumulating in the oxidation ponds, which continues impacting on the Actiflo effluent turbidity, which at times shuts the plant down on high turbidity at the UV plant.
- Huntly WTP, Ngaruawahia WTP, and Te Kauwhata WTP river intake screens cleaning by the dive team and wastewater diffuser surveys have been completed.
- Ngaruawahia WTP raw water intake chamber is often displaying low-level alarms causing plant shutdowns. The initial theory was that the river level is low, but after investigation, the river is slightly higher than this time last year. Sandbanks are visible at a number of locations along the river. I suspect that the sandbank near the intake screen has built up underneath the screen and reduced the available head and surface area. Will arrange for the dive team to investigate.
- Meremere WWTP upgrade project continues and is making good progress.
- A full overhaul of the TeKauwhata WWTP step screen has been completed by Horne Engineering.

3.2 Networks

A major mains break occurred at 99 Bailey St, Huntly, in the early hours of 31st of March. The break happened on a 100mm AC line, and was identified due to reservoir levels dropping rapidly. The line was isolated, and repaired at approximately 4.30am. Due to very heavy rainfall in the days/nights prior to the break, the ground was totally saturated, and localised flooding occurred. Fortunately, the dwelling was not flooded, and the team pumped away the water using a flexi-drive. This line was identified for renewal in this year's water main renewal project. Because of this break and the poor condition of the pipe the renewal has been accelerated under urgency.



NCU Design Project – Standard WWPS drawings have been received from Neo and reviewed by WSL. McKay has now provided the outstanding FD's and I/O lists, so this portion of the project is now fully complete. Due to issues with comms in Franklin resulting from very aged telemetry infrastructure, this area has been moved to a top priority for upgrade works. Neo is currently in the process of collating costs associated with this.

Base Station relocation – McKay has commenced survey works in association with Arthur D. Riley for the removal of base stations from various locations in the district to a centralised hub. The RSSI (signal strength) at Ngaruawahia, Huntly West, T.K., and Tuakau/Pukekohe will be measured, and this data will allow for a survey map to be produced, which will also include a path profile. This will inform supply coverage and indicate the optimal antenna, location, and mounting for the new base station.

Complex Meter Project - this continues to progress well, with Pipescape still working through the Raglan portion. CityCare has been approached to carry out works in Huntly and Ngaruawahia to accelerate the project and allow for a higher number of meters to be rectified in this Financial Year. Scoping for the work in these areas has begun, and letters/agreements with residents have been finalised with WDC, and the first batch has been sent to customers for counter-signing.

Water/Wastewater Pump Station Renewals – New booster pumps ex-China and the U.K. arrived in mid-March. Now, these are received, the following upgrades are planned for the coming weeks:

- Matangi Booster PS
Replace both existing pumps with x2 Lowara 10sv11 pumps and associated piping.
Replace one 4kW hydrovar
- Stonebridge Booster PS
Replace one existing pump with a Grundfos CM10-4 and associated piping.
- Railway Booster PS
Replace both existing pumps with x2 Lowara Ines 65-160/75 pumps with hydrovars.
- Wayside Booster PS

Installation of an additional Grundfos Crie 15-4 pump and associated piping.

Replace x2 5.5kW motors

Replace x2 Grundfos VSD's

Install Grundfos IO351B Module

The Drone Thermal Imaging project has progressed well despite issues with poor weather, which postponed several flights. All thermal imaging capture has now been completed, and Cardno is in the data verification phase of the project. The Raglan data has been fully processed, and a total of 7 definite and five probable leaks have been identified. The next step is to use GPR and acoustic leak detection to accurately pinpoint leaks for repair.

An E-One pump simulation rig has been constructed at the Brownlee Ave depot for testing of E-One pumps before sending them for repair. We have frequent failures occurring on these low-pressure pumps (2 per week), and to test the operation of the pump is very difficult on-site. This rig allows the team to check the mechanical operation before sending it to Auckland for repair. This has a potential cost saving of thousands of dollars over an annual period.



3.3 Planning and Project Delivery

Planning completed include:

There are several work packages for the Watercare Professional Engineering services panel in the process. These include:

- Ngaruawahia WW Rising main upgrade detailed design underway.
- Raglan WW model recalibration and system performance is underway, data capture phase completed with key pump station field-tested.
- Raglan WS model update and Master Plan is underway, with the field monitoring underway.
- Central Waikato WS model update is underway
- Stantec is undertaking District-Wide Water Supply Demand Management Plan underway with the draft report due early April.
- Whangarata gravity sewer concept design underway This project enables increased dairy flows and growth from Pokeno as well as servicing Whangarata Business Park.
- A scoping study for permanent rain gauges in WDC's townships underway.

- Inflow and Infiltration assessment of Matangi network commenced this will be followed site investigations; this work feeds into Discharge consent renewal.
- High level Inflow and Infiltration assessment of WWTP's underway.
- Concept design studies for Huntly and Ngaruawahia WWTPs are under way . These studies will identify interim and ultimate upgrades for the plants to ensure compliance and cater for future growth. The Huntly WWTP concept plan will also contain a draft biosolids strategy for the Waikato District.
- A gap analysis and upgrade plan has been completed for the three small water plants (Onewhero, Port Wiaakato and Te Akau). These studies will give an roadmap for compliance with the new drinking water standards and costs of upgrades for WDC to consider .
- A gap analysis with the new drinking water standards has also been completed for the Raglan Ngaruawahia WTP's . A list of upgrade works will be developed .

Development / Growth

- The pipeline design for River Road North Development and a supplementary Geotech study underway to confirm groundwater issues are complete. Design plans will be submitted to WDC for approval this month. The development agreement is being progressed by WDC.
- Synlait's contractors have replaced a portion of the rising main under the NIMT railway, which they damaged. The damaged fibre optic cable will be repaired by McKays; and will support improved monitoring and control of Synlait and Yashili trade waste discharges. Initial discussions relating to Pokeno Nutritional Dairy Factory have begun with the development of trade waste conditions.
- Ongoing interaction with Northgate Developers relating to new wastewater pump station site and construction

Project Delivery

- The design of the Ngaruawahia Esplanade Rising main renewal has begun. The bridge and topographical surveys are complete, the structural bridge assessment is underway, and the remainder of the route design is planned for April.
- The Meremere MBR drainage and chamber works are complete, and the civil structure is newly installed (construction progress is detailed below)
- Desludging works are underway at Huntly WWTP. Both the rate and dry solids percentage are meeting the production targets.



Huntly WWTP – Centrifuge Sludge Processing

- The design of the Tuakau Interceptor Pump Station Upgrade is underway; this project enables increased dairy flows and growth from Pokeno as well as servicing flows from Whangarata Business Park.
- Network Renewals are underway. Utility mapping, route planning, and drone surveys are complete in Ngāruawāhia, Galbraith St, Waingaro Rd, and Waipa Esplanade. The new water main installation and tie-in planning are scheduled for April.



Waipa Esplanade Watermain Renewal – Completed Utility Mapping and Route Planning

- Whangamarino WTP Upgrade is in Tender and the Te Kauwhata Reservoir Upgrade Tender completes mid-April.
- The POAL WWPS – Geotech design to complete so the pricing of the works can continue.
- Phase 1 of the Te Kauwhata WWTP upgrade (UV installation) is progressing with detailed design 70% complete and HAZOP and SID workshops completed . The delivery of the UV units has been further delayed due to the Suez canal shipping incident. A outline plan of works , earth works consent and NES consent application are being prepared ahead of construction
- Phase 2 of the Te Kauwhata WWTP (interim upgrade) is currently on hold awaiting Business Case Approval form WDC. Work completed in the last month includes the tendering of key equipment to allow certainty of pricing for the Business Case and on going geotechnical investigations.
- Raglan WTP introduction of a third barrier. The concept design has been completed and key equipment is being priced. We are looking to release a Design Build contract to the market in May.
- Ngaruawahia WTP – the detailed design for the UV installation has been revised to accommodate the containerised UV plant as constructed . A concept design is being developed for the backwash discharge portion of the project . It is hoped to deliver both projects simultaneously

3.4 Stormwater Update

- A session with the community liaison/consultation group occurred at Raglan. During the meeting, the Aroaro wetland was discussed in detail with the attendees. Meeting minutes have been sent to attendees for review and, once finalised will be sent out to the mailing list next week. Elements of the community are keen to see the wetland used as a stormwater treatment area and not a saline wetland environment. Currently, the consent requires WDC to manage the site as a saline wetland environment. Plant die-off is evident, which is concerning the local's. The WDC Ecology team has inspected the wetland and is happy that this is part of the management process.
- We inspected the Aroaro wetland with WRC due to public concerns over maintenance of the SW outlet and treatment devices. WRC will be sending a letter of direction to clean the forebays and network adjacent to the wetland.
- WSL is actively involved in the pre-application for new development in Ngaruawhia North. A catchment-wide solution investigation is underway. Undertook a site visit around Ngaruawahia, inspecting drains and culverts, including the outlet to the Waikato River. CKL is nearing completion of proof of concept for a catchment-wide solution.
- Stantec completed a flood mitigation design for Cambrae Road. The specifications are not finalised, but discussions with the contractor have commenced, and Stantec is confirming the consent requirements.
- Current Raglan abatement notice work still ongoing. The main outstanding items are:
 - Cambrae Road flood mitigation (Design completed, Consenting followed by construction contract/procurement next step)
 - Updating the monitoring/sampling program is complete, and a data share is agreed in principle with WRC. WRC review and implementation to commence shortly.
- Discussions with Parks and Roding Alliance regarding responsibilities completed. All agreed upon (as per draft) apart from Raingardens, which are still outstanding.
- One compliance notice for Raglan was received, but no new abatement notices. WRC was happy with the progress towards the existing abatement notice.
- Engineering forum with WDC commenced, which included discussions on Stormwater. WRC Stormwater and Development guidelines were discussed. Stormwater reserve vesting has been outlined and currently in discussion with the WDC legal and planning.
- Watercare organised an introduction for SW360, which delivers stormwater treatment asset maintenance training. Waikato DC, HCC, Roding Alliance, Waipa DC, WRC, and various local consultants were all in attendance. SW360 undertakes certification training for servicing devices which is not mandatory but could be considered in the future. WRC, WDC and WSL are meeting SW360 next week to discuss
- Support for Land development engineers pre apps and technical reviews is ongoing.

3.5 Abatement Notice Resolution

Meremere WWTP

A new consent was granted December 2020 that resolves the abatement notice with interim conditions to allow for the suspended solids and new lower compliance limits, which will be enacted once the new MBR plant is commissioned.

The installation of the MBR treatment plant is well underway. Drainage and chamber construction work is complete, foundation work, and building slab pours are underway. The new transformer is in service, long-lead items have been procured, and the MBR tanks are due to be installed mid April.



Meremere WWTP – New Inlet PS slab construction

The new plant is programmed to be operational in August 2021.



Meremere WWTP – Completed MBR tanks

Te Kauwhata WWTP

WRC abatement notice on this plant requires Total Kjeldahl Nitrogen (TKN), Total Nitrogen (TN), Total Phosphorus (TP) loads, and E.coli exceedances to be addressed. There is also a requirement to develop the short-term capacity for an increase in loads from residential development from Lakeside and Te Kauwhata structure plan areas prior to the HIF-funded new WWTP.

A capital solution is currently in design to address the abatement notice.

The upgrade project will be delivered in 3 phases to ensure the plant is compliant in the shortest possible time frame.

The phases are :

Phase 1 - introduction of UV disinfection .

Phase 2 – Construction of an interim MABR

Phase 3 - Constuction of the ultimate WWTP

Notwithstanding the current challenges around international shipping it is expected that Phase 1 and 2 will be completed early in 2022.

The consultation stakeholder engagement and concept development with respect to the ultimate discharge location for the TE Kauwhata is being lead by WDC .

Raglan stormwater

The Raglan stormwater Discharge Consent has an Abatement Notice for 2018/2019 compliance period highlighting non-compliances. The main issues are:

- Flooding at Cambrae Road
- Water Quality results and mitigation (hydrocarbons and heavy metals)
- High-risk site identification and education
- Reporting (changes to SW network)
- Review of the Stormwater Management Plan
- Review and update the monitoring program

Watercare has completed a detailed review of the non-compliant consent conditions. The following actions have been undertaken:

- Flood mitigation: Detailed design completed – discussions with contract have commenced (Open) – next step is consenting and procurement plan. Property owners would like to delay works until next summer/construction season.
- The sampling programme has been reviewed, and changes are being made for the proposed sampling regime for 2020/2021 including data sharing with WRC (Open)
- The annual report has been issued and provides a closeout of the reporting issues in the Abatement notice (Closed)
- High-risk sites have been identified, and discussions with landowners/managers have been undertaken. Two sites require further follow-up - 2020/2021 (Ongoing).

3.6 Compliance

- All March compliance reports for Drinking Water and Wastewater are due to be submitted to Waikato Regional Council, and Wai comply during the second week of April 2021.
- Te Akau Chlorate and Bromate MAV exceedance continue, and WSL is in communication with the DWA, updates on monitoring forwarded to DWA. Tanker supply option in progress for Te Akau. Increased DWS sampling was proposed for Te Akau from 9 April 2021 to account for the supply changes. Monitoring plan for Te Akau in agreement with the DWA.
- The next quarterly meeting with Wai-comply is in April 2021.
- Letter of Warning received from WRC for Ngaruawahia WWTP non-compliances (TN, NH4N) noted during 2019-20 compliance period. WSL/WDC in progress with the response to the letter from WRC.
- Huntly WWTP letter of direction received from WRC for the non-compliances (TSS, NH4N) noted during 2019-20 compliance period. WSL/WDC in progress with the response to the letter from WRC.

3.7 Customer

Billing

- Raglan complex water meter installations are ongoing, with over half of the agreements returned, and the contractors have begun work on eight properties.
- Huntly and Ngaruawahia complex water meter installation letters have been approved. Citycare visited three sites in Ngaruawahia to assess the scope/complexity of the work.
- Support was given to the review of the Water Supply Bylaw 2014 and proposed new Water Relief policy.
- Two complaints about the recommendations on water relief applications required input.

Actions	February 2021	March 2021
Reading obtained	4,446	3,408
Consumption revenue raised (excl GST)	\$1,021,802.03	\$815,068.56
Service requests (includes final reading requests)	171	220

Trade Waste

- The use of the Pivotal system for trade waste has been approved, and data loading is set to begin. This will improve the efficiency of the team and the quality of the data to support account set up.
- There was a delay for audits/visits due to COVID-19 related absence.

Active consent

Conditional Consents	Permitted Audited	Permitted
13	100	40

Monthly activity

Actions	March 2021
Audits/visits undertaken	23
New Application received	3
Renewals	4

3.8 Strategic Resource Consents

Raglan WWTP resource consent application

- A Qualitative Microbial Risk Analysis (QMRA) and full harbour modelling reports were received in March. This information supports an understanding of the public health risk accompanying the freshwater discharge option (i.e. MBR treatment, and discharge to a stream tributary in the upper harbour).
- A Raglan wastewater consent community hui was held on 24 March 2021, where the reports were presented. The images below highlight the existing discharge (*Image A*), which utilises the swift outgoing tide, then the freshwater discharge scenario (*Image B*), where greater retention of treated wastewater occurs.
- Image C shows the QMRA sites that were used for effects assessment. This assessment considered the level of proposed treatments in conjunction with dilution and retention of the WWTP discharge at each proposed outfall location. The comparisons considered the extent that each short-listed option was under the 'no-observed-adverse-effect level' (NOAEL).
- It was useful to interpret these QMRA results into multi-criteria analysis scoring for the 'public health' category. Image D below demonstrates how the investigation allows a scoring between 1 (poor) and 10 (excellent) for each of the short-listed options. This ranking will contribute to a collective score when considering other scored categories. Image D highlights that the freshwater discharge option obtains the worst ranking.
- The Project Team has now undertaken draft MCA scoring for all MCA categories. It is intended to distribute this to key stakeholders and Tainui o Tainui hapū for discussion in April. This scoring excludes any weighting and cost consideration.
- The positive attributes of L1 (public land utilisation of sub-surface irrigation) in terms of cost and meeting project outcomes are apparent. An advanced study to understand this scenario's feasibility is now underway, where the project team intends to present findings to interested groups in April. Interested groups should include the WDC Parks Team, WDC Service Delivery

Manager, and the WDC Executive Leadership Team. Advice on how information is presented to Council staff will be sought from the WDC Contract Managers.

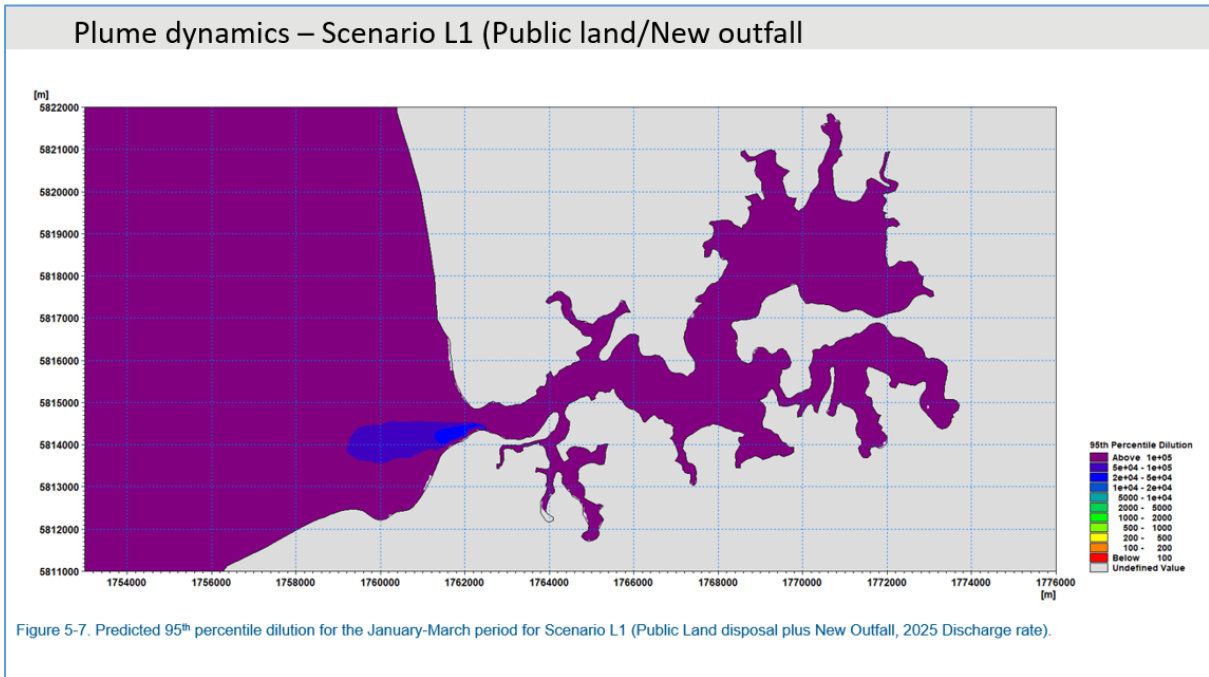


Image A: Existing harbour discharge dilution

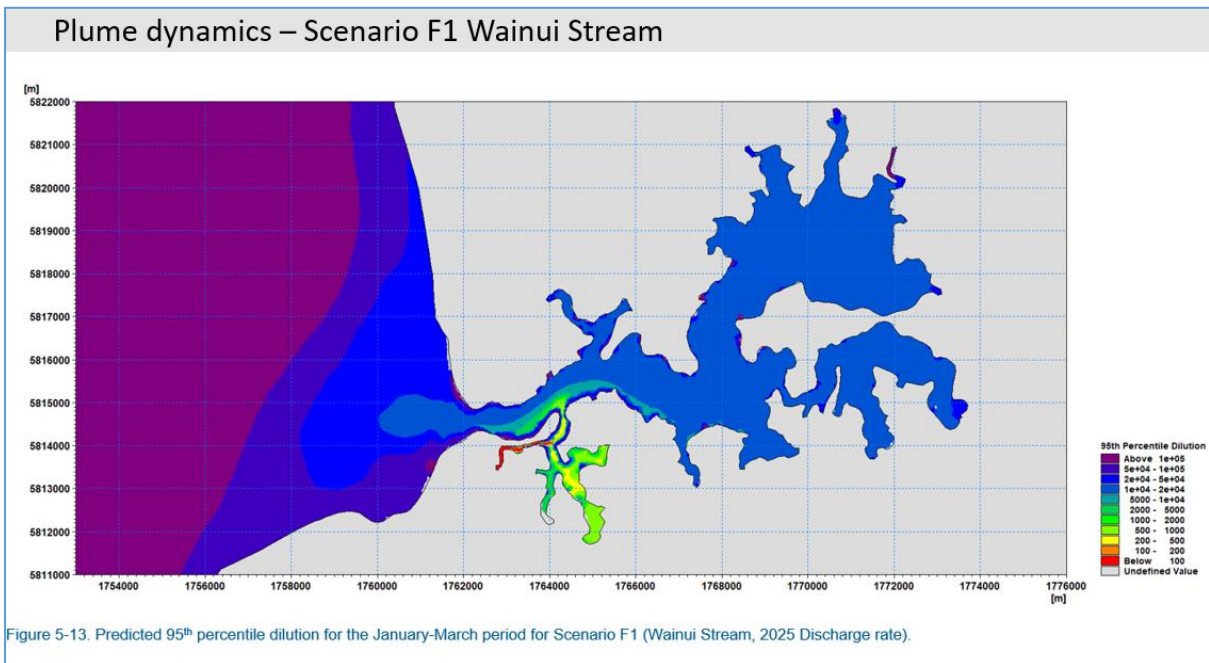


Image B: Stream discharge dilution representation which highlights longer durations that occur within the water body

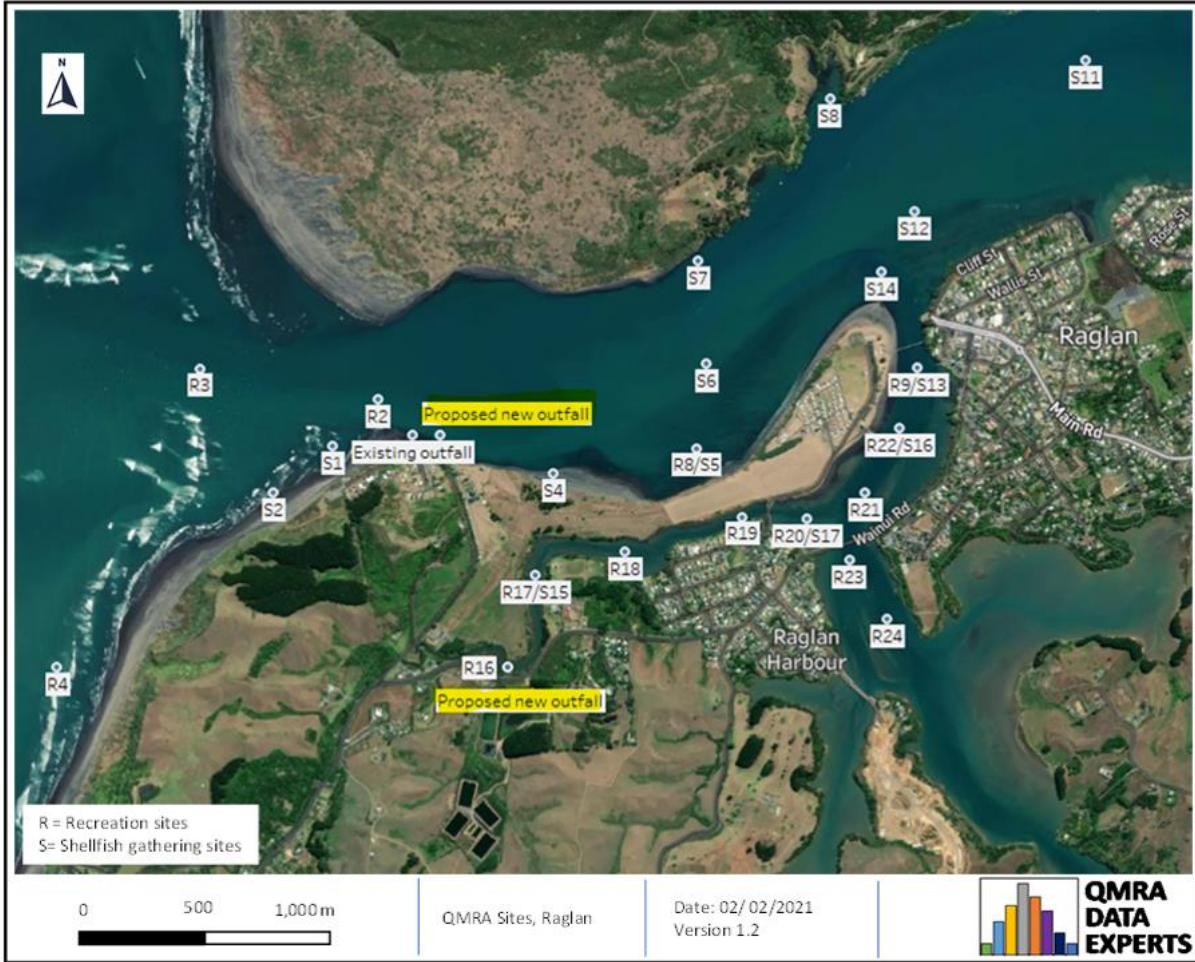


Image C: QMRA analysis sites

Broad Comment/MCA advice – Chris Dada

- Dilution and achievable virus log reduction associated with upgrade is the basis of QMRA
- Scenarios ranked in the magnitudes of NOAEL,
- *‘Estimated IIR profiles generally varied with sites but were well below the NOAEL for most of the exposure sites across all tested treatment and discharge scenarios’*
- M2 and L4 were the best among options.

- Enteric illness risk (intestines) 700x under NOAEL
- Acute febrile respiratory illness 20x under NOAEL
- Raw shellfish consumption 20x under NOAEL

Scenario	Treatment and discharge option	Overall MCA Score	Key MCA Scale (1-10, worst -best)
L4	MBR + UV , discharge to public land/outfall	9	
M2	MBR + UV discharge to new outfall	8	
L3	Tertiary membrane +UV, discharge to private land/outfall	6	
L1	Tertiary membrane +UV, discharge to public land/outfall	6	
M1	Tertiary membrane +UV, discharge to new outfall	6	
F1	MBR + UV discharge to Wainui Stream	3	
L2 = 100% to land (MCA =10)			

Image D: Multi-criteria methodology (using public health scoring)

Matangi WWTP

- The final consultant engineering assessment has been received in March, which highlights that:
 - The Matangi treatment process generally operates well, but there are some issues with discharge volumes and hydraulic treatment capacity.
 - The disposal field is undersized when considering nutrient loading. However, nitrate-N and faecal coliforms are generally low and similar to background concentrations
- There is the ability now to work through solutions and better engage with hapū on options. Solutions range in complexity, appropriateness, and cost.
- Continuation of WRC application preparation and cost analysis is planned for April.

Open Meeting

To	Waters Governance Board
From	Gavin Ion Chief Executive
Date	10 May 2021
Prepared by	Matt Horsfield Democracy Advisor
Chief Executive Approved	Y
Reference #	GOV1318
Report Title	Exclusion of the Public

I. RECOMMENDATION

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 each matter to be considered	Reason for passing this resolution in relation to each matter	Ground(s) under section 48(1) for the passing of this resolution
PEX Item 1 Confirmation of Minutes	Good reason to withhold exists under Section 6 or Section 7 Local Government Official Information and Meetings Act 1987	Section 48(1)(a)
PEX Item 2 Actions		
PEX Item 3.1 Te Kauwhata WWTP upgrade – Phase 2 Interim MABR		

PEX Item 3.2 220 kw Solar Array at Raglan WWTP		
PEX Item 3.3 Water Financial Results to 31 March 2021		

This resolution is made in reliance on section 48(1)(a) of the Local Government Official Information and Meetings Act 1987 and the particular interest or interests protected by Section 6 or Section 7 of that Act which would be prejudiced by the holding of the whole or relevant part of the proceedings of the meeting in public, as follows:

Item No.	Section	Interest
PEX Item 1 Confirmation of Minutes		Refer to the previous Public Excluded reason in the agenda for this meeting.
PEX Item 2 Actions Register		Refer to the previous Public Excluded reason in the agenda for this meeting.
PEX Item 3.1 Te Kauwhata WWTP upgrade – Phase 2 Interim MABR	7(2)(b)	Protect Information where the making available of the information: (ii) Would be likely unreasonably to prejudice the commercial position of the person who supplied or who is subject of the information; or
	7(2)(i)	Enable any local authority holding the information to carry on, without prejudice or disadvantage, negotiations (including commercial and industrial negotiations); or
	7(2)(j)	Prevent the disclosure or use of official for improper gain or improper advantage.

PEX Item 3.2 220kw Solar Array at Raglan WWTP	7 (2) (b)	Protect Information where the making available of the information: (ii) Would be likely unreasonably to prejudice the commercial position of the person who supplied or who is just if the information or
	7 (2) (i)	Enable any local authority holding the information to carry on, without prejudice or disadvantage, negotiations (including commercial and industrial negotiations) or
	7 (2) (i)	Prevent the disclosure or use of official information for improper gain or improper advantage.
PEX Item 3.3 Water Financial Result to 31 March	7 (2) (b)	Protect information where the making available of the information: (ii) Would be likely unreasonably to prejudice the commercial position of the person who supplied or who is the subject or who is the subject of the information or
	7 (2) (j)	Prevent the disclosure or use of official information for improper gain or improper advantage.