

Notice is given that an ordinary meeting of the Engineering Services Committee will be held on:

Date: Thursday 10 May 2018
Time: 9.30 am
Meeting Room: Tasman Council Chamber
Venue: 189 Queen Street
Richmond

Engineering Services Committee

AGENDA

MEMBERSHIP

| | | |
|---------------------------|----------------------|-----------------|
| Chairperson | Cr S G Bryant | |
| Deputy Chairperson | Cr P F Sangster | |
| Members | Mayor R G Kempthorne | Cr S R Brown |
| | Cr P L Canton | Cr M J Greening |
| | Cr P H Hawkes | Cr T B King |
| | Cr C M Maling | Cr D E McNamara |
| | Cr D J Ogilvie | Cr T A Tuffnell |
| | Cr A C Turley | Cr D M Wensley |

(Quorum 7 members)

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AGENDA

1 OPENING, WELCOME

2 APOLOGIES AND LEAVE OF ABSENCE

Recommendation

That apologies be accepted.

3 PUBLIC FORUM

4 DECLARATIONS OF INTEREST

5 LATE ITEMS

6 CONFIRMATION OF MINUTES

That the minutes of the Engineering Services Committee meeting held on Thursday, 29 March 2018, be confirmed as a true and correct record of the meeting.

7 REPORTS OF COMMITTEE

Nil

8 PRESENTATIONS

Nil

9 REPORTS

| | | |
|-----|--|----|
| 9.1 | Chairman's Report | 5 |
| 9.2 | Water Restrictions Protocol..... | 9 |
| 9.3 | Three-Waters Performance Review | 23 |
| 9.4 | Engineering Services - Activity Update | 47 |

9 REPORTS

9.1 CHAIRMAN'S REPORT

Information Only - No Decision Required

| | |
|-----------------------|---|
| Report To: | Engineering Services Committee |
| Meeting Date: | 10 May 2018 |
| Report Author: | Stuart Bryant, Chairman, Engineering Services Committee |
| Report Number: | RESC18-05-01 |

1 Summary

1.1 This is the six-weekly update from the Chairman, Engineering Services Committee

2 Draft Resolution

That the Engineering Services Committee receives the Chairman's Report, RESC18-05-01.

3 Welcome

- 3.1 Welcome to today's meeting. I note we have a reasonably short agenda although there are a number of things that have been happening within the Engineering portfolio during the past six weeks.
- 3.2 The Roding and Rivers teams continue to work on the recovery efforts from ex-Cyclones Fehi and Gita.
- 3.3 I understand that our contractor Downer has over 1000 line items of individual roading jobs needing to be done as part of the recovery effort. A mammoth task which will, of course take some time to complete.
- 3.4 Along with the contractors, our staff have continued to work long hours to get our infrastructure back in order. Again, I'd like to record my thanks and appreciation for their efforts.
- 3.5 Richard Kirby and I attended the Local Government Road Safety Summit in Wellington on 9 April 2018. Associate Transport Minister Hon Julie Anne Genter was a guest presenter and made some policy announcements. The summit was an opportunity for councils throughout the country to talk about the barriers to and opportunities for, improving safety on our roads.
- 3.6 As many of you will be aware, the Government has introduced the Draft Government Policy Statement (GPS on Land Transport. This is the guiding document that influences how the Government chooses to direct its transport investment and therefore impacts our Regional Land Transport Plan. The Government's commitments have made it clear that transformation of the land transport system is a priority. The draft GPS presents a number of changes in direction, prioritising safety, and access to a wider range of transport options, the environment and value for money.
- 3.7 Staff are currently preparing a submission to the GPS and I will ensure it is copied to the Councillors.
- 3.8 The Tasman Regional Transport Committee meets to deliberate on submissions to the Draft Regional Land Transport Mid-Term Review on 9 May and I will update the Council on the outcome at our meeting.
- 3.9 I am pleased to advise that the Tasman Regional Transport Committee's recommendation to the New Zealand Transport Agency (NZTA) to lower the speed limit on State Highway 60 from Three Brothers Corner to Westdale/Maisey Roads is progressing. Our staff met with NZTA, the Automobile Association, the Police and the Road Transport Association recently to move this proposal forward.
- 3.10 As a result of a recommendation from the Transportation Manager, we propose to also review the speed limits on local roads that feed into this stretch of the state highway, ie Redwood Road, River Road, Blackbyre Road, Lansdowne Road, Lower Queen Street, Best Island Road, Pukeko Lane and Research Orchard Road.
- 3.11 Public consultation on lowering the speed limit on SH60 and the local roads will be managed jointly between the Council and NZTA. The consultation will be carried out over a six-week period from mid-May. Any decision to reduce the speed limit will require a change to the Council's speed limit bylaw (for local roads) and a gazette notice by NZTA (for SH60).

- 3.12 Both NZTA and the Council have stressed that lowering the speed limit is only a first step in ensuring safety on this stretch of state highway and that it is not a substitute for upgrading the highway in the longer term. Along with NZTA we remain committed to improving the route for the entire length of SH60 from Richmond to Collingwood.
- 3.13 Along with Crs Maling and McNamara I attended the third Joint Waste Management Working Party workshop in early April. We, along with our Nelson City counterparts are providing high level guidance and direction to staff who are then charged with drafting the update to the Joint Waste Management and Minimisation Plan. We expect to see a final draft at our final workshop on 11 May 2018 and it will be presented to the Engineering Services Committee after that.
- 3.14 The Engineering Services team recently hosted two NMIT Engineering students for a week. This is an opportunity for our Engineering staff to give some insight of engineering to young people completing an engineering degree. We have hosted two students for the last four years as part of our ongoing partnership with NMIT and they spend the time visiting work sites and seeing projects first hand. This is a valuable experience for both parties.

9.2 WATER RESTRICTIONS PROTOCOL**Decision Required**

| | |
|-----------------------|--|
| Report To: | Engineering Services Committee |
| Meeting Date: | 10 May 2018 |
| Report Author: | Mike Schruer, Utilities Manager; Dwayne Fletcher, Activity Planning Manager; Helen Lane, Activity Planning Advisor (Water, Wastewater & Solid Waste) |
| Report Number: | RESC18-05-02 |

1 Summary

- 1.1 This report seeks approval to propose changes to the Public Water Supply Bylaw 2016 to clearly outline what water restrictions will be imposed on customers connected to Council-provided community water supplies in times of drought.
- 1.2 Under the Tasman Resource Management Plan (TRMP), Council-provided community water supplies are subject to rationing during times of drought. The Council is obliged to give effect to this rationing or face enforcement action under the Resource Management Act 1991.
- 1.3 The Public Water Supply Bylaw 2016 gives the Council authority to restrict or prohibit water use by our customers in times of drought. The bylaw provides the Council with discretion and flexibility as to how it achieves the necessary water demand reductions. This approach was deliberate so that the Council could change or escalate restrictions as circumstances required, depending on how well (or poorly) customers respond to the previous restriction stages.
- 1.4 However, it has become clear to staff that the Council needs to outline the steps it intends to follow when imposing restrictions and make them available to the public. At present, the Council has no pre-arranged restriction steps. Businesses and residents are likely to be unaware of what may be required of them and may be unprepared to deal with restrictions if, and when, they occur.
- 1.5 The Draft Water Restrictions Protocol proposed in this report intends to fill this gap. Once included in the Public Water Supply Bylaw 2016, it will:
 - guide the Council when making decisions about what restrictions will apply and how they will be escalated if droughts become more severe; and
 - help the wider community better understand and plan for water restrictions during times of drought.
- 1.6 The Water Restriction Protocol proposes a wider, more stringent range of restriction measures compared to what has been imposed in the past. This is needed to bring it in-line with the increased potential severity of water allocation rationing on the Waimea Plains if the Waimea Community Dam is delayed or not constructed. However, the protocol will apply to

all Council-provided community water schemes, not just schemes that source water from the Waimea Plains.

- 1.7 How the Council gives effect to restrictions can significantly affect residential households, businesses and public/community organisations. Some of the proposed restriction measures, particularly during a drought emergency, are severe. Consequently, the Council will need to consult on the changes to the Public Water Supply Bylaw 2016.
- 1.8 Assuming the Engineering Services Committee approves this proposal, staff will bring a revised Water Supply Bylaw for consultation approval to the Committee in June 2018.

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|---------------------------|
| 2 Draft Resolution |
|---------------------------|

That the Engineering Services Committee:

- 1. receives the Water Restrictions Protocol Report; and**
- 2. approves the Draft Water Restriction Protocol (Attachment 1) for inclusion in a proposed change to the Public Water Supply Bylaw 2016, RESC18-05-02.**

3 Purpose of the Report

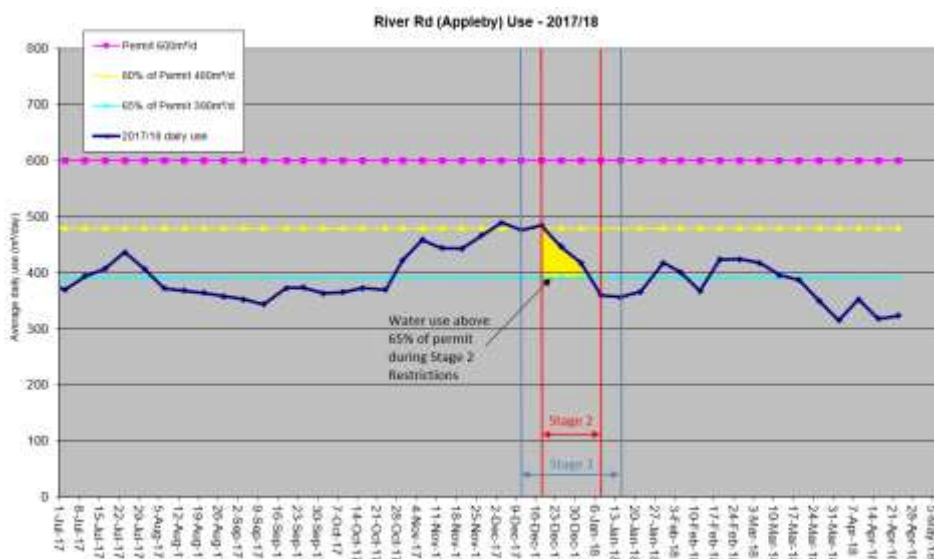
- 3.1 This report seeks approval to propose changes to the Public Water Supply Bylaw 2016 to clearly outline what water restrictions will be imposed on customers connected to Council-provided community water supplies in times of drought.

4 Background and Discussion

TRMP and Rationing

- 4.1 Under the Tasman Resource Management Plan (TRMP), Council-provided community water supplies are subject to rationing during times of drought. When this occurs, the amount of water that the Council is permitted to extract is reduced and the Council is obliged to restrict the use of water by customers on our community water supplies.
- 4.2 If the Council's water take exceeds its allocation limits and/or the Council fails to take action to reduce customer demand for water, it may face enforcement action under the Resource Management Act 1991. This could include being served with infringement/abatement notices, prosecution and fines.
- 4.3 The Council holds resource consents to take water for community water supplies. Staff monitor weekly water extraction for each supply to ensure water takes stay within the limits of the resource consents conditions. Occasionally, when water rationing is imposed, actual water extraction exceeds the rationing limit.
- 4.4 A recent example of this situation is illustrated in Figure 1 below. Between December 2017 and January 2018, Stage 2 rationing was imposed on the Delta Water Management Zone. During this time, the Appleby River Road bore exceeded the water abstraction limit of 65% of permitted use associated with Stage 2 rationing (of the TRMP).

Figure 1: 2017/19 Summer Water Usage River Road (Appleby)



- 4.5 In situations where water extraction exceeds or is expected to exceed its limits, the Council advises customers to make further water reductions in order to prevent the Council from breaching its consent limits and escalating to more severe restrictions.

Public Water Supply Bylaw 2016

- 4.6 The ability to impose restrictions on community water supply customers during times of drought is provided by the Public Water Supply Bylaw 2016. Specifically, section 27 of the bylaw allows the Council to restrict or prohibit the use of water. Such restrictions or prohibitions may include, but are not limited to the following options:
- a) A general notice to conserve water wherever possible; or
 - b) Restricting water use for individual users, classes of activity, or types of water use such as hand-held hosing of productive gardens only, car washes, water blasting, or aesthetic water features; or
 - c) Essential health needs.
- 4.7 The current bylaw provides the Council with discretion and flexibility as to how it achieves required water demand reductions. It does not provide specific and detailed information about how restrictions will apply to customers in order to reduce water usage. This approach was deliberate, so that the Council could change or escalate restrictions as circumstances required, depending on how well (or poorly) customers respond to the previous restriction stages.

Water Restriction Protocol

- 4.8 However, it has become clear to staff that the Council needs to outline in the bylaw the steps it intends to follow when imposing restrictions. At present, the Council has no pre-agreed restriction steps. Businesses and residents are likely to be unaware of what may be required of them and may be unprepared to deal with restrictions if, and when, they are imposed.
- 4.9 The need for a Water Restriction Protocol is becoming increasingly critical because of the potential for more severe water rationing on the Waimea Plains if the Waimea Community Dam is delayed, or not constructed at all. Our approach to managing water demand and imposing water restrictions for community water supplies needs to account for these circumstances.
- 4.10 If these new limits came into force, they would affect over 20,000 residents in Brightwater, Hope, Richmond, Redwood Valley and Mapua (around 40% of the District's population), as well as many commercial and some industrial businesses. Our customers need time to prepare and implement changes in water use behavior.
- 4.11 Staff have developed the Water Restriction Protocol (**Attachment 1**) for inclusion in the Public Water Supply Bylaw 2016. When developing the protocol, staff looked at the approach other authorities in New Zealand and overseas have taken.
- 4.12 The protocol applies a phased approach from permitted use (with conservation measures) through to restricted use and prohibited use (with exceptions). The phased approach allows the Council to escalate to more severe measures and restrictions if needed to achieve water use reductions. The phases include:

| Phase | Use | Restrictions |
|-------|-----------|---|
| 1 & 2 | Permitted | Conserve water wherever possible for all activities. Restrictions in effect on outdoor water use. |

| Phase | Use | Restrictions |
|-------|------------|--|
| 3 & 4 | Restricted | Significant restrictions in effect on all water uses. |
| 5 & 6 | Prohibited | Emergency; water use only permitted for drinking water, sanitation, showering, medical purposes, fire-fighting and health and safety purposes. |

- 4.13 The phases outlined in the protocol do not have a direct one-to-one relationship with the rationing steps outlined in the TRMP, although it is anticipated that Council will need to escalate through the phases as more stringent rationing comes into effect. Phase 5 or 6 restrictions are likely to be only used in extreme drought. For example, if the Waimea Community Dam does not proceed, phase 5 and 6 restrictions would be likely be implemented for Brightwater/Hope, Richmond, Redwood Valley and Mapua when TRMP stage 5 rationing is in force (once every 6-10 years). Elsewhere, use of phase 5 or 6 restrictions will be very rare.
- 4.14 The protocol identifies separate water usage activities across the residential, public (Council, health clubs and organisations) and private (commercial and industrial) user spectrum. The protocol generally assumes all restrictions for all activities in each phase are implemented at once.
- 4.15 However, for phases 3 and 4, it provides the option of escalating restrictions within the different categories of water usage. The protocol lists the water usage activities in the order that they should be targeted for restrictions. For example, the first few activities (filling pools, outdoor washing and garden watering) should be targeted first, and the last activities (firefighting and medical care facilities/hospitals) should be targeted last. The underlying reason for enabling this approach is to initiate targeted restrictions for non-essential activities, before targeting activities that will affect business operations (impacting on the wider economy), and restricting last those activities associated with health and safety (essential human/animal health and fire-fighting purposes).
- 4.16 The types of commercial and industrial businesses in Tasman are varied and water usage for each operation is different. To reflect this, the protocol is not prescriptive about advising businesses how to reduce usage. Instead, the protocol requires the following from business-related water users.

| Phase | Commercial and industrial water reduction measures |
|-------|---|
| 1 & 2 | Conserve water wherever possible |
| 3 & 4 | Implement water shortage plan and reduce usage by 25% (phase 3) and 50% (phase 4) |
| 5 & 6 | All water use activities prohibited at all times except for public health reasons |

- 4.17 For this reason, the protocol also encourages businesses to develop water shortage plans that are specific to their operations. These plans are intended to help business customers plan how they will meet the restriction requirements and identify the impacts on their businesses so that mitigation measures can be considered. Staff acknowledge this may be particularly difficult to implement for some businesses and staff may need to work with these business to achieve these outcomes.

Implementing restrictions

- 4.18 Under section 151 of the Local Government Act 2002 (LGA), a resolution of the Council is needed to commence restrictions under the bylaw. The Council cannot delegate this authority.
- 4.19 The restrictions will need to be publicly notified. In practice, the restrictions will be advertised alongside notifications associated with water rationing under the Resource Management Act 1991. This will need to be carefully managed to avoid any confusion to water users.
- 4.20 Staff consider it prudent to have a communications campaign to complement the finalised protocol to convey clear and consistent messages. This will likely include educational material to provide more information on water conservation measures.

Enforcement

- 4.21 Non-compliance with the restrictions when they are in effect will be a breach of the bylaw and an offence under section 239 of the LGA. The type of enforcement action the Council will take depends on the circumstances and may include one or more of the following:
- Notification to the customer to rectify any non-compliance.
 - Restricting water supply to an individual property.
 - Prosecution. The maximum fine under the LGA is \$20,000.
- 4.22 Infringement notices (which allow instant fines to be issued) cannot be used at this stage to help enforce restrictions under the bylaw. Staff are not aware of any regulations made by Order in Council under section 259 of the LGA that would allow this. If desired, the Council can approach central government and ask it to consider recommending a new Order in Council that could remedy this.

5 Options

- 5.1 The Engineering Services Committee has four options:
- (a) Approve the Draft Water Restrictions Protocol (possibly with amendments) for proposed inclusion in the Public Water Supply Bylaw 2016.
 - (b) Approve the Draft Water Restrictions Protocol (possibly with amendments) for public consultation separately from the Water Supply Bylaw 2016.
 - (c) Adopt the Draft Water Restrictions Protocol (possibly with amendments) without public consultation.
 - (d) Do not adopt the Draft Water Restriction Protocol.
- 5.2 A brief assessment of the options is summarised in the table below.

| Option | Pros | Cons/Risks |
|---|---|---|
| (a) Approve Draft Water Restrictions Protocol for proposed inclusion in the | <ul style="list-style-type: none"> • Protocol is suitable and largely fit-for-purpose based on other national and international approaches • Protocol provides clarity about how the Council will give effect to water restrictions | <ul style="list-style-type: none"> • Draft protocol may have gaps • Possibility of being perceived as draconian |

| Option | Pros | Cons/Risks |
|--|---|--|
| Public Water Supply Bylaw 2016 | <ul style="list-style-type: none"> • Protocol embedded in bylaw, providing unambiguous authority for the water restrictions • Ensure we meet LGA decision making obligations and provides opportunity for the public to identify any issues that the Council has not considered • Give customers forewarning about how and when restrictions will likely occur in future • Give customers time to prepare and develop Water Shortage Plans • Help build public awareness about changes to water restrictions | |
| (b) Approve the Draft Water Restrictions Protocol (possibly with amendments) for public consultation separately from the Public Water Supply Bylaw 2016. | <ul style="list-style-type: none"> • Similar to above, except that the protocol will not be embedded in the bylaw • No change to the bylaw required | <ul style="list-style-type: none"> • Similar to above, except there is additional litigation risk associated with not embedding the protocol in the bylaw. |
| (c) Adopt the Draft Water Restrictions Protocol (possibly with amendments) without public consultation. | <ul style="list-style-type: none"> • Protocol is suitable and largely fit for purpose based on other national and international approaches • Protocol provides clarity about how the Council will give effect to water restrictions • Can be finalised immediately | <ul style="list-style-type: none"> • The Council may overlook potential issues with the protocol that have not been identified or considered • Do not meet obligations of LGA in decision making process • High litigation risk should the Council try to impose restrictions |
| (d) Do not adopt the Draft Water Restrictions Protocol | <ul style="list-style-type: none"> • There are no benefits to not adopting some form of guidance or protocol for water restrictions | <ul style="list-style-type: none"> • The Council will not be prepared for giving effect to water rationing, particularly if the Waimea Community Dam does not proceed • Public unaware of TRMP implications and knock on consequences in the event of no Waimea Community Dam. |

| Option | Pros | Cons/Risks |
|--------|------|---|
| | | <ul style="list-style-type: none"> • High litigation risk should the Council try to impose severe ad-hoc restrictions • Customers will be unaware and unprepared for water restrictions |

- 5.3 Staff recommend option a). The Draft Water Restriction Protocol provides a sound, balanced approach to implementing water restrictions and a good basis for engaging with the public and eliciting feedback. Embedding the protocol in the Public Water Supply Bylaw 2016 provides clear and unambiguous authority and guidance for water restrictions.

6 Strategy and Risks

- 6.1 The risks associated with the various options are summarised above.
- 6.2 Staff have developed the restrictions proposed in the protocol with the intent of imposing the lowest cost and least pain for our community. However, once in force, they are likely to be unpopular with our community – particularly phases 3-6 which would significantly negatively affect the wellbeing of our community and economy. Some businesses may need to significantly limit or cease operations for the duration of a severe drought, including some Council operations.
- 6.3 At phase 5 and 6 restrictions, all use of water for purposes other than essential human health would need to stop. This is likely to cause major disruption to, and in, our community. As noted earlier, in the event that the Waimea Community Dam does not proceed, phase 5-6 restrictions are likely to be needed once every 6-10 years in Brightwater, Richmond, Redwood Valley and Mapua.
- 6.4 These impacts are difficult to avoid if the Council (and our community) is to comply with the rationing requirements under of the TRMP or in an emergency.

7 Policy / Legal Requirements / Plan

- 7.1 The Council's obligations in relation to the TRMP and water extraction are addressed above.
- 7.2 The Council is obliged to maintain water services under the Local Government Act 2002. The Council can restrict water supplies but must not create unsanitary conditions. The Council can also stop water supplies temporarily under certain circumstances, including an emergency. When using these provisions, the Council must notify the Medical Officer of Health, Fire and Emergency NZ and people affected.
- 7.3 The draft protocol complies with these requirements. However, it is worth noting that phase 6 of the draft protocol proposes ceasing supply temporarily to individually connected properties during a drought emergency. In these cases, water for drinking and sanitary purposes will be available from nominated supply points.

8 Consideration of Financial or Budgetary Implications

- 8.1 Outside of the Waimea Plain, the costs of implementing the draft water restriction protocol can be accommodated within existing budgets.
- 8.2 Assuming the Waimea Community Dam proceeds, staff expect the draft protocol will be used very infrequently. As this is what the Council proposed in its LTP, no budgets have been provided for this possibility.
- 8.3 Were the Waimea Community Dam not to proceed or there is a lack of progress in construction, staff expect that the cost of implementing the protocol (or any alternative restrictions that give effect to the TRMP water rationing limits) would be significant in most years and especially high in any years that phase 5 and 6 restrictions are required.
- 8.4 The Council's costs are likely to pale in comparison to the cost to our community were the protocol fully implemented.

9 Significance and Engagement

- 9.1 How the Council gives effect to rationing can significantly affect households, businesses and community organisations. Some of the restrictions proposed, especially during a drought emergency are severe. Consequently, staff recommend the Council consult on the inclusion of the protocol within the Public Water Supply Bylaw 2016 before adopting them.
- 9.2 By consulting with the public, staff also hope to identify any potential issues that may not been considered in developing the protocol. For example, identifying any particularly vulnerable users, or better understating the impact on particular industries that may help refine the protocol.
- 9.3 Public consultation would also likely raise public awareness about water shortage challenges that the Council and the wider public will face in the future, particularly in a "no dam" scenario. This will help the customers prepare and plan to adjust their water use. This is especially important for commercial and industrial customers as they will be expected to significantly reduce consumption as restrictions are escalated. Business are encouraged to start developing water shortage plans or business continuity plans and consider how operations can be adjusted during times of water shortage.

| Issue | Level of Significance | Explanation of Assessment |
|--|-----------------------|---|
| Is there a high level of public interest, or is decision likely to be controversial? | Medium-High | There will likely be interest from large commercial and industrial water users and some residential users in Richmond, Brightwater, Mapua and Redwood Valley. |
| Is there a significant impact arising from duration of the effects from the decision? | High | When water restrictions are imposed, all water users (residential, commercial and industrial) will be affected. This is likely to be exacerbated in the event of a no dam scenario because water restrictions will become a long term regional issue. |
| Does the decision relate to a strategic asset? (refer Significance and Engagement Policy for list of strategic assets) | Yes | Water is a public natural resource and the whole water supply network is a strategic asset. |
| Does the decision create a substantial change in the level of service provided by Council? | Yes | During times of drought, the Council will likely restrict water use and hence the fundamental level of service we provide to our water consumers. |

10 Conclusion

- 10.1 The Public Water Supply Bylaw 2016 provides little guidance to the Council and community water supply customers about how and when to reduce water usage during times of drought. The proposed protocol would fill this critical gap. It will guide Council decision-making about how and when to escalate restrictions and what water using activities and users to target.
- 10.2 The protocol would also help customers understand and prepare for restrictions ahead of time. This is especially important for business customers, as they would need to develop water shortage plans and consider if and how they can operate during restrictions.
- 10.3 Including the protocol within the Public Water Supply Bylaw 2016 will provide clear and unambiguous authority for the restrictions contained within the protocol.
- 10.4 The Council needs to consult with the public on the proposed protocol and changes to the bylaw to meet LGA decision making obligations and identify any issues with the protocol. It may also help build awareness and preparedness for water restrictions in the future.

11 Next Steps / Timeline

- 11.1 Assuming the Council approves the Draft Water Restrictions Protocol (for proposed inclusion in the Public Water Supply Bylaw 2016), staff will bring a revised Water Supply Bylaw for consultation approval to the Engineering Services Committee in June. This report will provide further details and timelines for the consultation process.
- 11.2 There should be sufficient time to for the new bylaw to be in place in time for summer 2018/2019.

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| 12 Attachments |
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1. Draft Water Restriction Protocol

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| Water Restriction Protocol - Phases and Measures | | | | | | |
|---|---|---|--|---|---|--|
| TRMP Rationing | | | | | | |
| | Rationing Steps 1 and 2 | | | | | |
| | Rationing Step 3 | | | | | |
| | Rationing Step 5 | | | | | |
| | PERMITTED USE (WITH CONSERVATION MEASURES) | | RESTRICTED USE | | PROHIBITED USE (EMERGENCY LIKELY) | |
| | PHASE 1 | PHASE 2 | PHASE 3 | PHASE 4 | PHASE 5 | PHASE 6 |
| Overarching message | Conserve water wherever possible for all activities. Restrictions in effect on outdoor water use. | Conserve water wherever possible for all activities. Restrictions in effect on outdoor water use. | Restrictions in effect on all water uses. | Restrictions in effect on all water uses. | Emergency; water use only permitted for drinking water, firefighting sanitation, showering, medical purposes, and health and safety. | Emergency; water use only permitted for drinking water, firefighting sanitation, showering, medical purposes, and health and safety. |
| Pools, spas, water features (includes residential & public) | Conserve water wherever possible. Filling a pool, spa or water feature is not permitted. Topping up is permitted using hand held hose equipped with trigger nozzle only. Use of water tankers sourced from an area where water restrictions do not apply for filling purposes is permitted. Use a pool cover to reduce evaporation. | Conserve water wherever possible. Filling a pool, spa or water feature is not permitted. Topping up is permitted using hand held hose equipped with trigger nozzle only. Use of water tankers sourced from an area where water restrictions do not apply for filling purposes is permitted. Use a pool cover to reduce evaporation. | Filling and/or topping up a pool, spa or water features is not permitted. Using water tankers sourced from an area where water restrictions do not apply is not permitted. Use a pool cover to reduce evaporation. | Filling and/or topping up a pool, spa or water features is not permitted. Using water tankers sourced from an area where water restrictions do not apply is not permitted. Use a pool cover to reduce evaporation. | All water use for pool, spa and water feature purposes is prohibited. | |
| Outdoor washing (includes vehicle washing, outdoor surfaces & windows) | Conserve water wherever possible. Washing activities permitted using hand held hose equipped with trigger nozzle, high pressure cleaning unit, or a bucket at any time. | Conserve water wherever possible. Washing activities permitted using hand held hose equipped with trigger nozzle, high pressure cleaning unit, or a bucket at any time. | All outdoor washing activities permitted with bucket only. Washing of vehicle windows, mirrors, lights, registration plates permitted for safety reasons only. Washing of outdoor surfaces for safety reasons only. | All outdoor washing activities permitted with bucket only. Washing of vehicle windows, mirrors, lights, registration plates permitted for safety reasons only. Washing of outdoor surfaces for safety reasons only. | All outdoor washing activities prohibited, except where cleaning is required for health and safety reasons, safety hazard or other emergency. | |
| Garden watering (includes all residential, public, private gardens & lawns, cemeteries, sports & school grounds, community centres etc.) | Conserve water wherever possible. Watering activities permitted on any day, at any time using a hand held hose equipped with trigger nozzle, time limited watering system (automatic, spray or dripper), or a bucket. | Conserve water wherever possible. Watering activities permitted on alternative days (odd/even house numbers) between 6pm-8am; using a hand held hose equipped with trigger nozzle, time limited watering system (automatic, spray or dripper), or a bucket. | Watering of productive (fruit and vegetable) gardens using a bucket only. | Watering of productive (fruit and vegetable) gardens using a bucket only. | All garden and lawn watering activities is prohibited at all times. | |
| Clubs & institutions (includes public events) | Conserve water wherever possible. | Conserve water wherever possible. Limit or suppress activities creating dust during events (i.e. motor cross & equestrian) for the safety of participants, spectators and neighbours. Use water tankers sourced from an area where water restrictions do not apply. | Implement Water Shortage Plan. Limit or suppress activities creating dust during events (i.e. motor cross & equestrian) for the safety of participants, spectators and neighbours. Contact Council for a permit to use water tanker to operate events. | All activities using water prohibited except where required for health and safety reasons, safety hazard or other emergency. Contact Council for a permit to use water tanker to operate events. | All activities using water prohibited. | All water use prohibited except for drinking water, firefighting sanitation, showering, medical purposes, and health and safety. Water supply only from nominated key supply points. |
| Council's water supply maintenance activities (flushing hydrants & pipes) | Conserve water wherever possible. | Conserve water wherever possible. | Where possible, routine hydrant flushing will be planned outside of water restrictions times; however sometimes flushing is required after a mains break or when commissioning a new pipe. Requires approval from Engineering Manager. | All activities using water prohibited except with Engineering Manager's approval. | All activities using water prohibited except with Engineering Manager's approval. | |
| Building activities (includes construction and renovation) | Conserve water wherever possible. Water use for building activities permitted using hand held hose equipped with trigger nozzle, high pressure cleaning unit, or a bucket at any time. | Conserve water wherever possible. Water use for building activities permitted using hand held hose equipped with trigger nozzle, high pressure cleaning unit, or a bucket at any time. | Home renovation activities use a bucket only. Commercial building activities should implement Water Shortage Plan. Using water tankers sourced from an area where water restrictions do not apply is not permitted. | Home renovation activities use a bucket only. Commercial building activities should implement Water Shortage Plan. Using water tankers sourced from an area where water restrictions do not apply is not permitted. | All water use for building activities prohibited except for public health reasons. | |
| Commercial activities | Conserve water wherever possible. | Conserve water wherever possible. | Implement Water Shortage Plan and reduce usage by 25%. | Implement Water Shortage Plan and reduce usage by 50%. | All water use activities prohibited at all times except for public health reasons. | |
| Industrial activities | Conserve water wherever possible. | Conserve water wherever possible. | Implement Water Shortage Plan & reduce usage by 25%. | Implement Water Shortage Plan and reduce usage by 50%. | All water use activities prohibited at all times except for public health reasons. | |
| Water tankers | Implement water shortage plan. | Implement water shortage plan. | Implement water shortage plan. Priority given to human consumption and animal welfare. | Implement water shortage plan. Priority given to human consumption and animal welfare. | Implement water shortage plan. Council controlled activity. | Implement water shortage plan. Council controlled activity. |
| Animal care (pets and stock) | Conserve water wherever possible. | Conserve water wherever possible. | Water use permitted for animal welfare and survival purposes only. Includes activities such as the provision of drinking water, animal washing, cleaning animal pens and enclosures. Pens and enclosures cleaning with a high pressure water cleaning unit or hose equipped with trigger nozzle. | Water use permitted for animal welfare only. | Water use permitted for animal welfare only. | Water use permitted for animal welfare only. |
| Fire-fighting | Water for fire-fighting purposes permitted. | Water for fire-fighting purposes permitted. | Water for fire-fighting purposes permitted. | Water for fire-fighting purposes permitted. | Water for fire-fighting purposes permitted. | Water for fire-fighting purposes permitted. |
| Medical care facilities / hospitals | Conserve water wherever possible. | Conserve water wherever possible. | Conserve water wherever possible. | Conserve water wherever possible. | Conserve water wherever possible. | Conserve water wherever possible. |
| Council Controlled (Emergency) | | | | | | |

9.3 THREE-WATERS PERFORMANCE REVIEW**Information Only - No Decision Required**

| | |
|-----------------------|--|
| Report To: | Engineering Services Committee |
| Meeting Date: | 10 May 2018 |
| Report Author: | Andrew Bingham, Data Analyst - Utilities |
| Report Number: | RESC18-05-03 |

1 Summary

- 1.1 In April 2017, a presentation was made to the Engineering Services Committee recommending that a regular report was presented to the Committee on the Three-Waters National Performance Review (NPR).
- 1.2 Our performance against other medium-sized three-water utilities providers is reasonably good. However, due to the low density of our supply network our utility fees and charges are on the high side. We also have a few issues with our data collection and reporting systems meaning we are unable to report on some of the mandatory performance measures.

2 Draft Resolution

That the Engineering Services Committee receives the Three-Water Performance Review report, RESC18-05-03.

3 Purpose of the Report

- 3.1 The purpose of this report is to brief the Engineering Services Committee on the performance of the Tasman District Council three-water utilities.

4 National Performance Review

- 4.1 Selected data is included in **Attachment 1** from the NPR 2016-2017 report to compare Tasman District Council's three-water performance against other three-water utilities providers.
- 4.2 There are some useful performance measures that Tasman District Council is currently unable to collect or calculate such as reliable asset condition data and fault response times but the intention is to work towards implementing such measures.
- 4.3 The response times performance measure is mandatory and we are working closely with the IT department to upgrade our asset management and customer services systems to enable recording and reporting on this data to satisfy this requirement for the next audit round.
- 4.4 The executive summary of the NPR highlighted a number of findings, several of which are relevant to Tasman District Council;

- **The diversity of approaches to inflow and infiltration and emergency management planning creates knowledge sharing opportunities** – Inflow and infiltration are terms used to describe the ways that stormwater and groundwater enter the wastewater system. Active programs are in place for over half of respondents to prevent inflow and infiltration, which in turn lowers costs, and prevents wastewater from overflowing into the environment. A broad range of strategies are being employed by different organisations, including targeted renewal programmes, and a variety of monitoring and inspection regimes and third party collaborations with property owners, building inspectors, and contractors.

Seventy eight percent (78%) of participants have Emergency Management Plans in place. The nature and events planned for is again, highly diverse. Events such as high water demand, pandemics and contaminated water, which may reasonably be expected to impact on all water supply operators, have only been addressed by a limited number of participants. A large majority of suppliers noted they were members of the Lifelines Forum, which may provide a vehicle for the sharing of plans.

The Water Services Managers Group, the Water Journal and annual Water Conference are all vehicles by which Water Services Managers regularly collaborate to share ideas. Addressing emergency management and inflow and infiltration through these forums provides an opportunity for participants to leap-frog their management through the learning experiences of others.

- **Actual capital expenditure trails budgeted expenditure, with participants spending a median of 76% of their budgeted capital** – This continues previous years' trends with only 69% of budgeted capital expenditure being spent in 2015/16, and 64% in 2014/15.

Internal resources for project delivery was the number one barrier preventing participants delivering their capital work programmes. Some participants commented this related to

difficulties recruiting suitably qualified staff, devoting time to on-site contract management and having staff time to focus on project management.

While the development of a workforce capability strategy has been initiated by Water New Zealand, it is only intending to address operational staff capability. Beyond that, addressing the capacity and capability constraints that affect the delivery of capital works will also be important. This would require cross-sectoral collaboration with the engineering, trades and construction sectors.

1.5 Selected results of the NPR 2016-2017 (refer **Attachment 1**) will be discussed further at the meeting, some key observations are as follows:

- For medium-sized local authorities we are amongst the lowest water and wastewater service connection density (properties/km of pipelines), which has a significant impact on our costs of providing services.
- Our dry weather wastewater overflows are above average. Forty percent of the overflows were the result of rising main breaks, mainly in Pohara. Like many others, we too have an issue with wet wipes, fat and tree roots causing dry weather overflows.
- Our three-waters residential service charges are the second or third highest in the medium-sized range which is a reflection of our service connection density.
- Our average pipeline age is below average due to the high-level growth we experience compared to other regions.
- We have a high number of water restrictors installed due to the rural water schemes with low connection density.
- A large portion of our water and wastewater treatment plants and pump stations do not have backup generators. Most of the wastewater treatment plants are able to continue operating for extended periods of time in the event of a power failure, due to the nature of the secondary treatment facilities at most sites, ie all of them include oxidation ponds which are a biological system that provide the additional advantage of storage. However, overflows at wastewater pump stations are likely during a power failure if there is insufficient emergency storage. It is less of an issue for the water supply network provided we have adequate storage to gravity feed the network from reservoirs located at strategic positions, however significant growth in the region has reduced our back-up storage capacity. The Council owns five mobile generators that are currently used to power priority infrastructure in the event of a power outage. We have identified a need and have budgeted for, seven additional mobile generators (over the next 13 years) to fully cover the wastewater network. A dedicated generator will also be installed at the Takaka wastewater treatment plant in 2018/19.

4.5 The full NPR report is available at the following link:
<http://www.waternz.org.nz/NationalPerformanceReview>

5 Conclusion

5.1 The cost of three-waters supply in the Tasman District may appear high on the face of it, but this needs to be considered in conjunction with other data such as total area covered, number of properties covered per kilometre of pipeline, district coverage for the three-waters services, levels of treatment and compliance with resource consents.

- 5.2 We are updating our IT systems to improve the accuracy of our response and resolution times which are mandatory performance measures.
- 5.3 We are increasing our pool of mobile generators to allow better coverage of wastewater pump stations without emergency storage.

| |
|----------------------|
| 6 Attachments |
|----------------------|

- 1. National Performance Review

27

NATIONAL PERFORMANCE REVIEW 2016-2017

Figure 1: Health and Safety - near miss reports per staff member (internal and contracted)

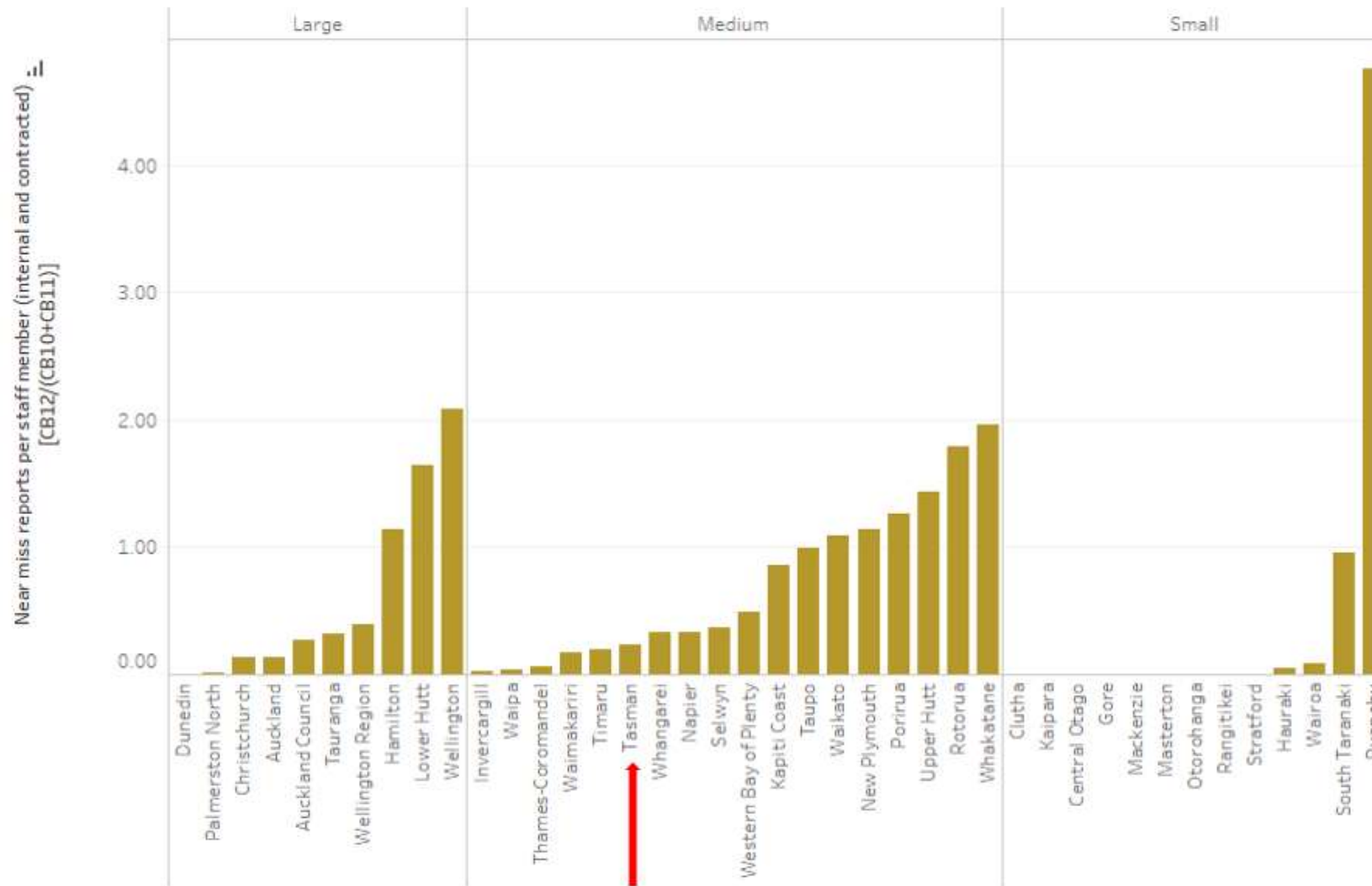


Figure 2: Water supply service coverage

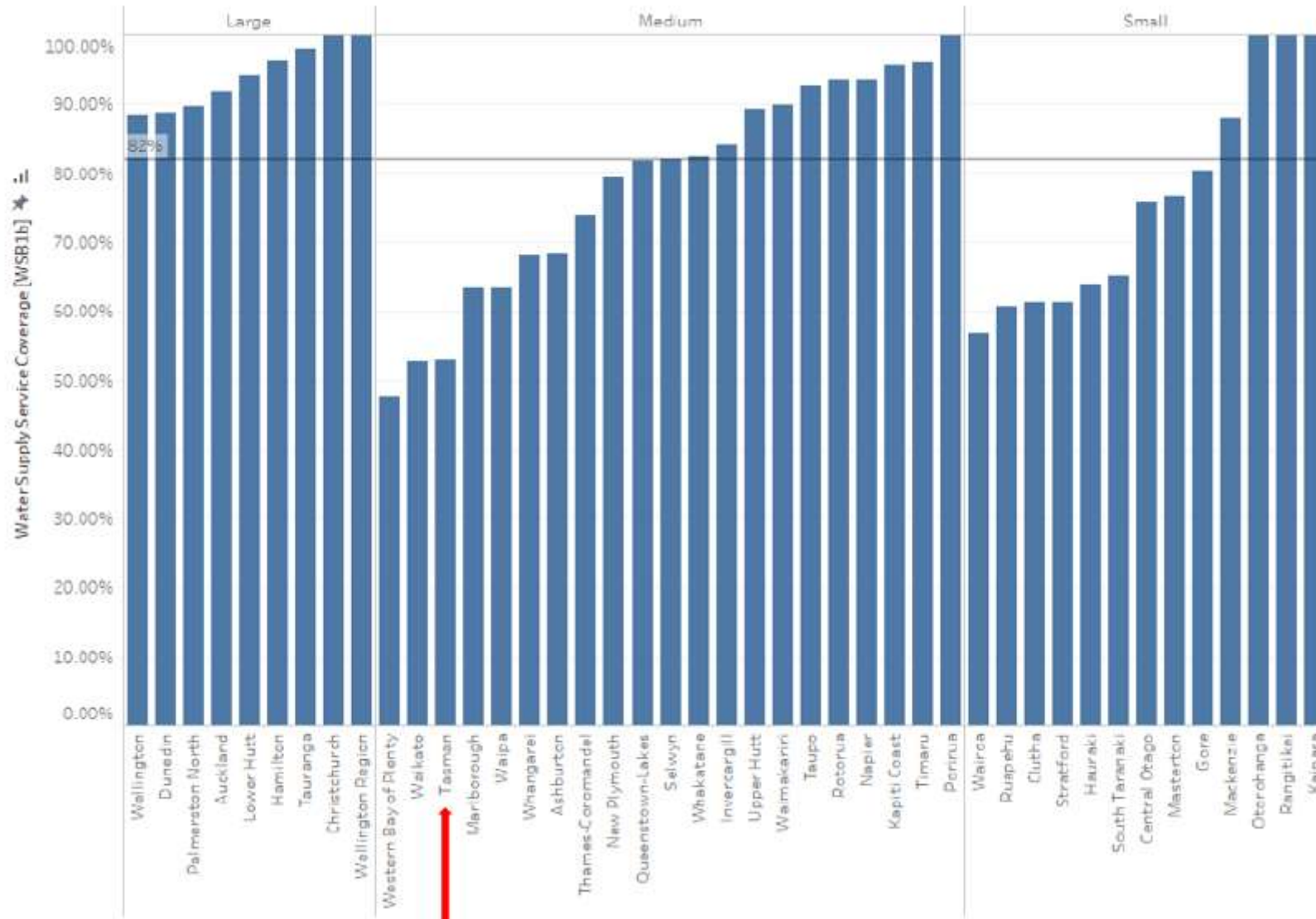


Figure 3: Wastewater service coverage

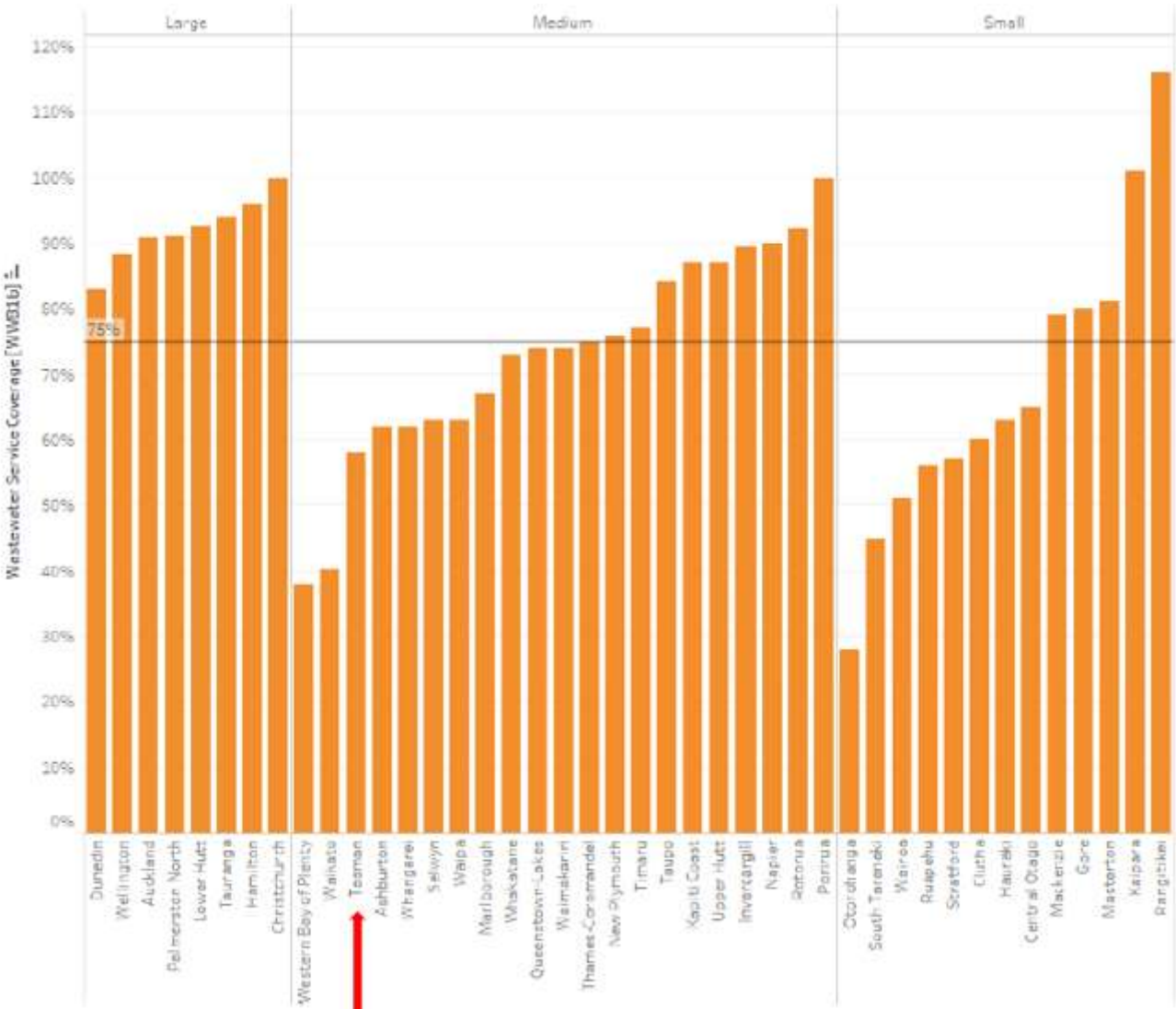


Figure 4: Peak month guest nights

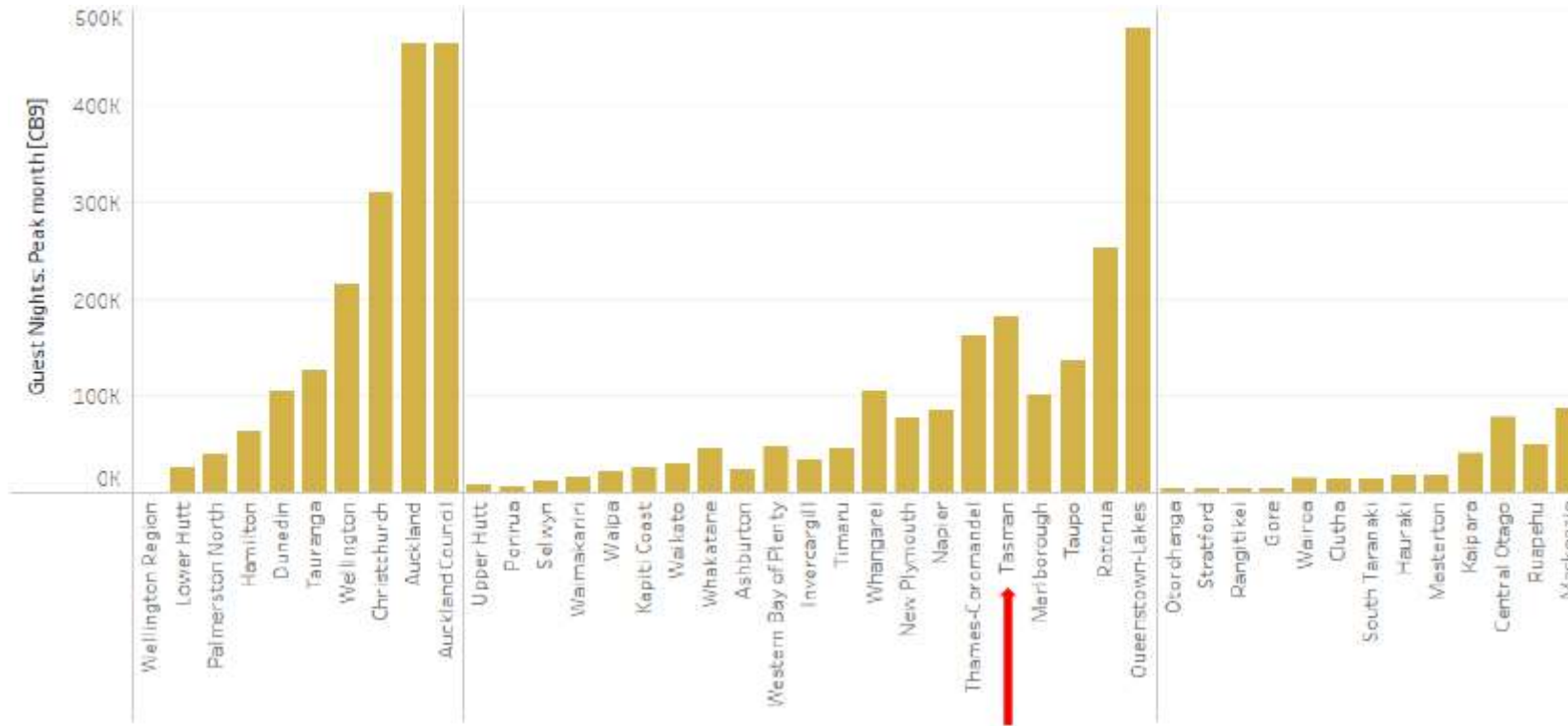


Figure 5: Water supply connection density (properties/km)

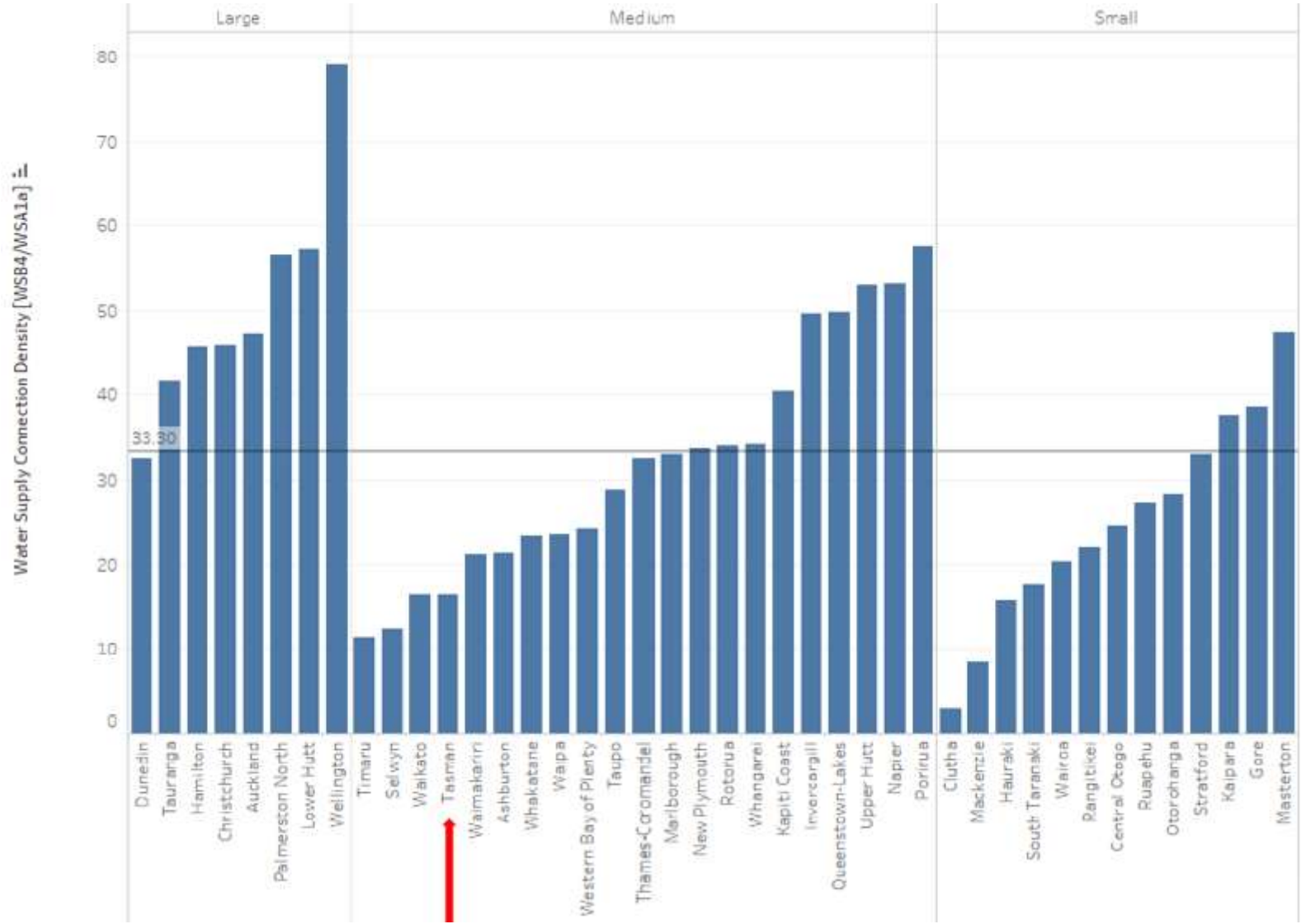


Figure 6: Wastewater connection density (properties/km)

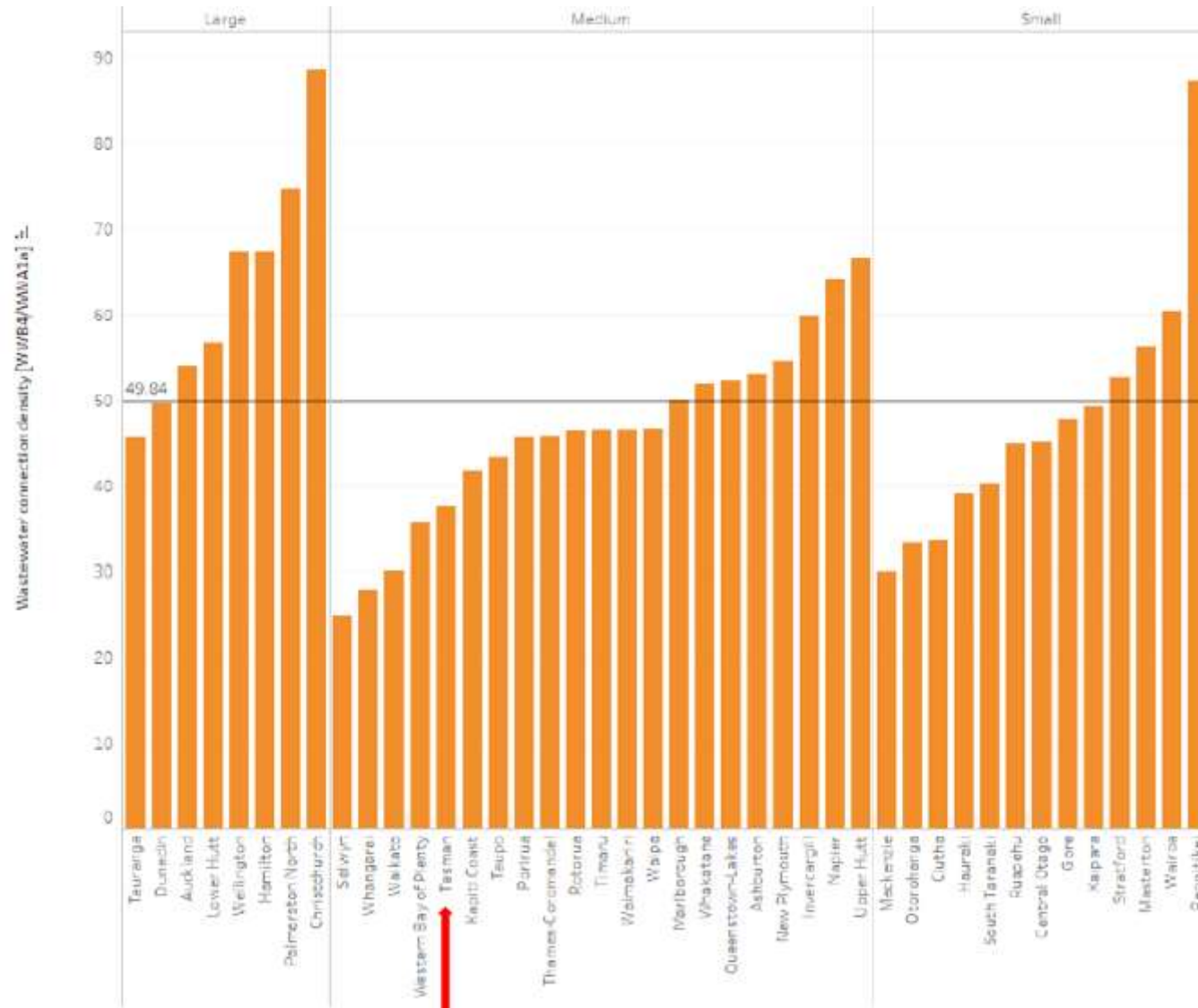


Figure 7: Dry weather wastewater overflows per 1,000 properties

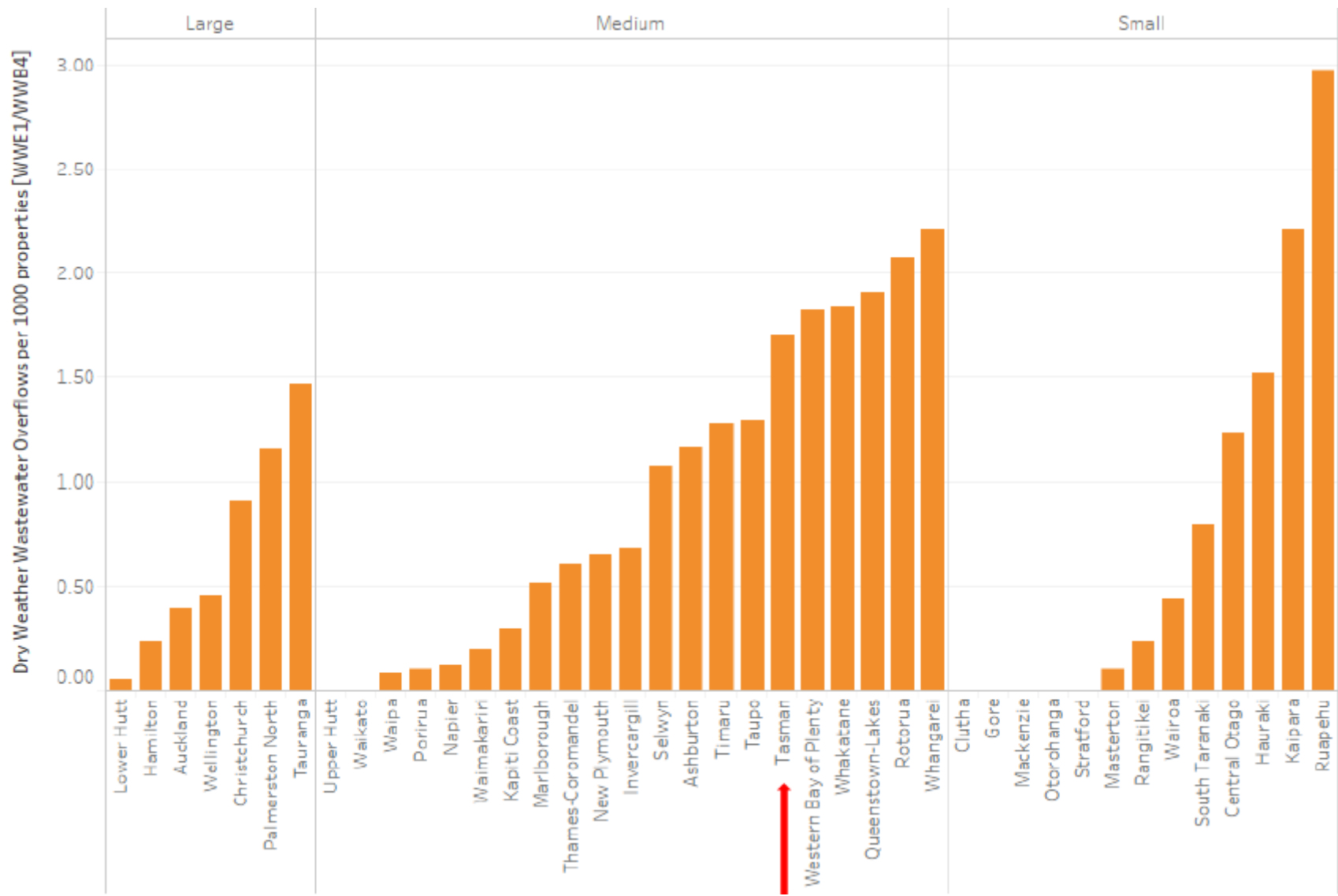


Figure 8: Wet weather wastewater overflows per 1,000 properties

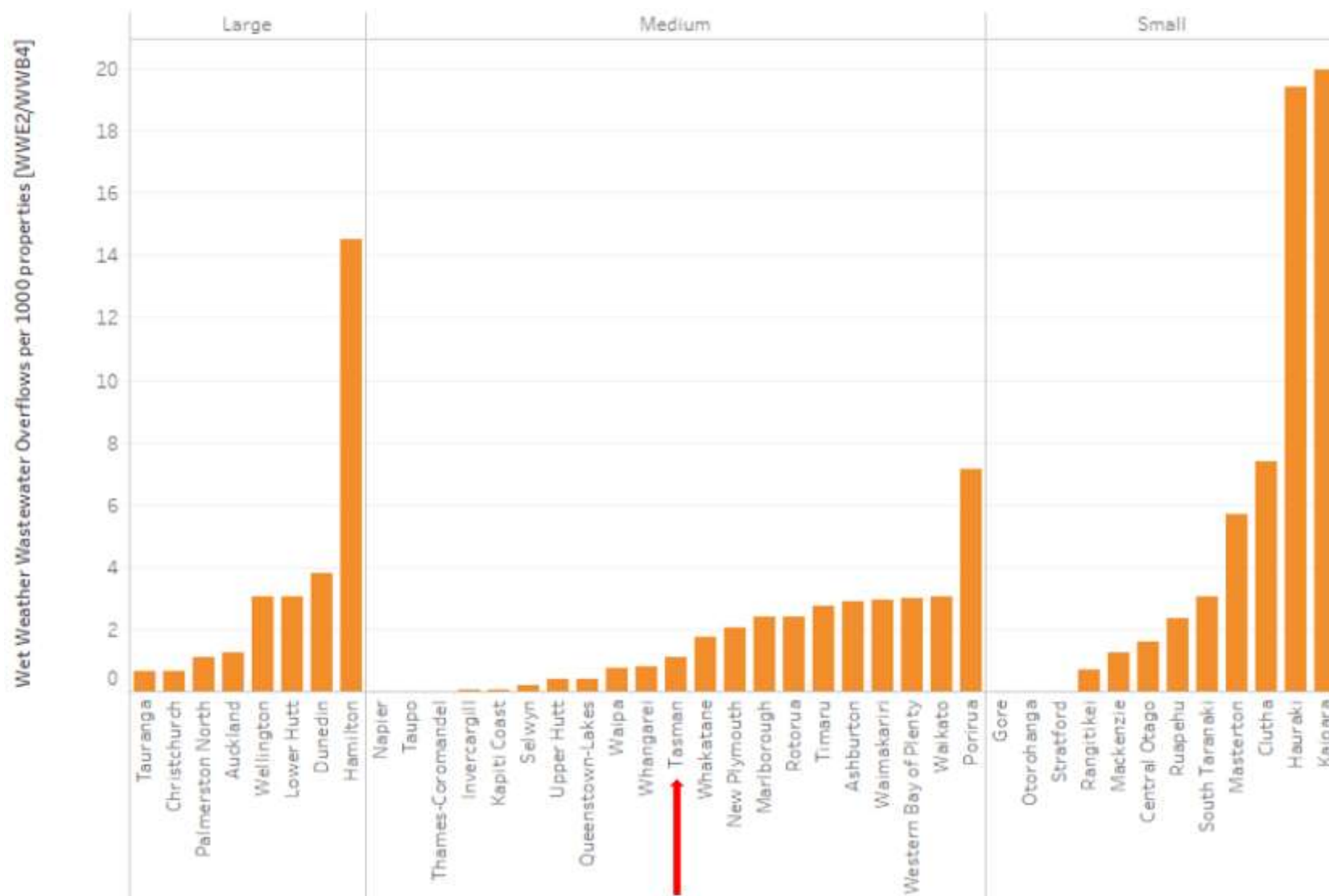


Figure 9: Residential water charges (incl GST) for a connection using 200 m³ per year

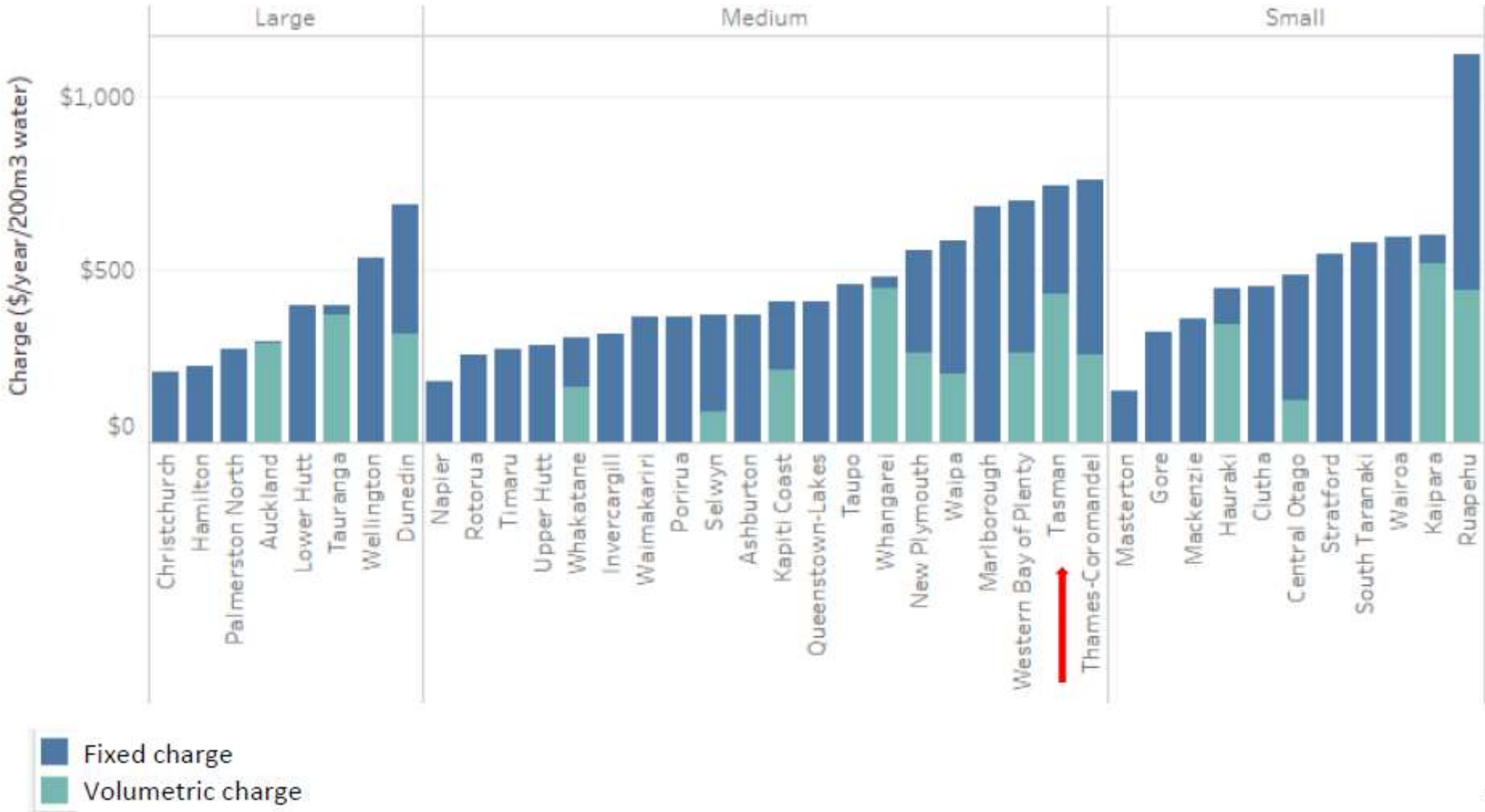


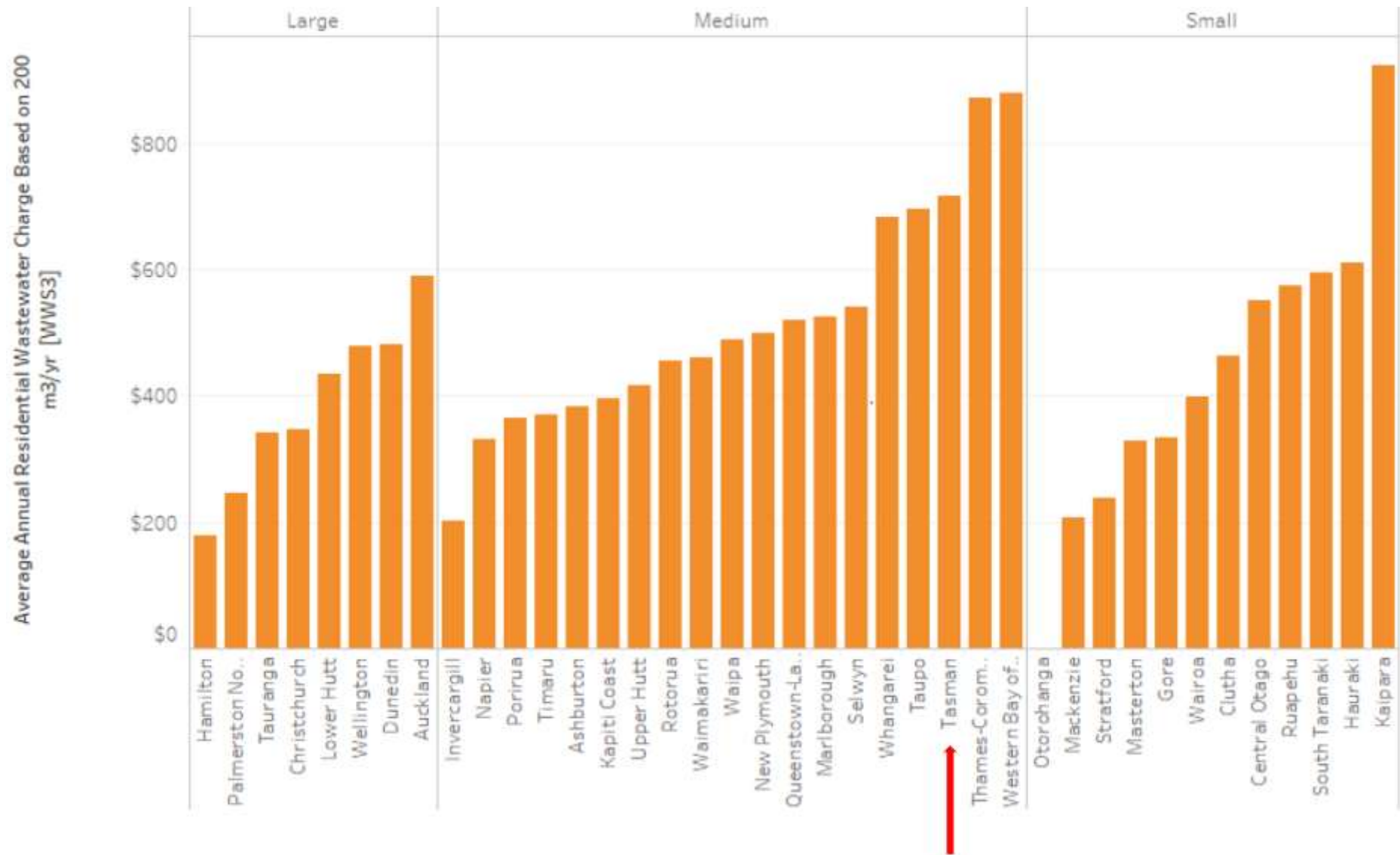
Figure10: Residential wastewater charges (incl GST) for a connection using 200 m³ per year

Figure 11: Stormwater Charges (incl GST)

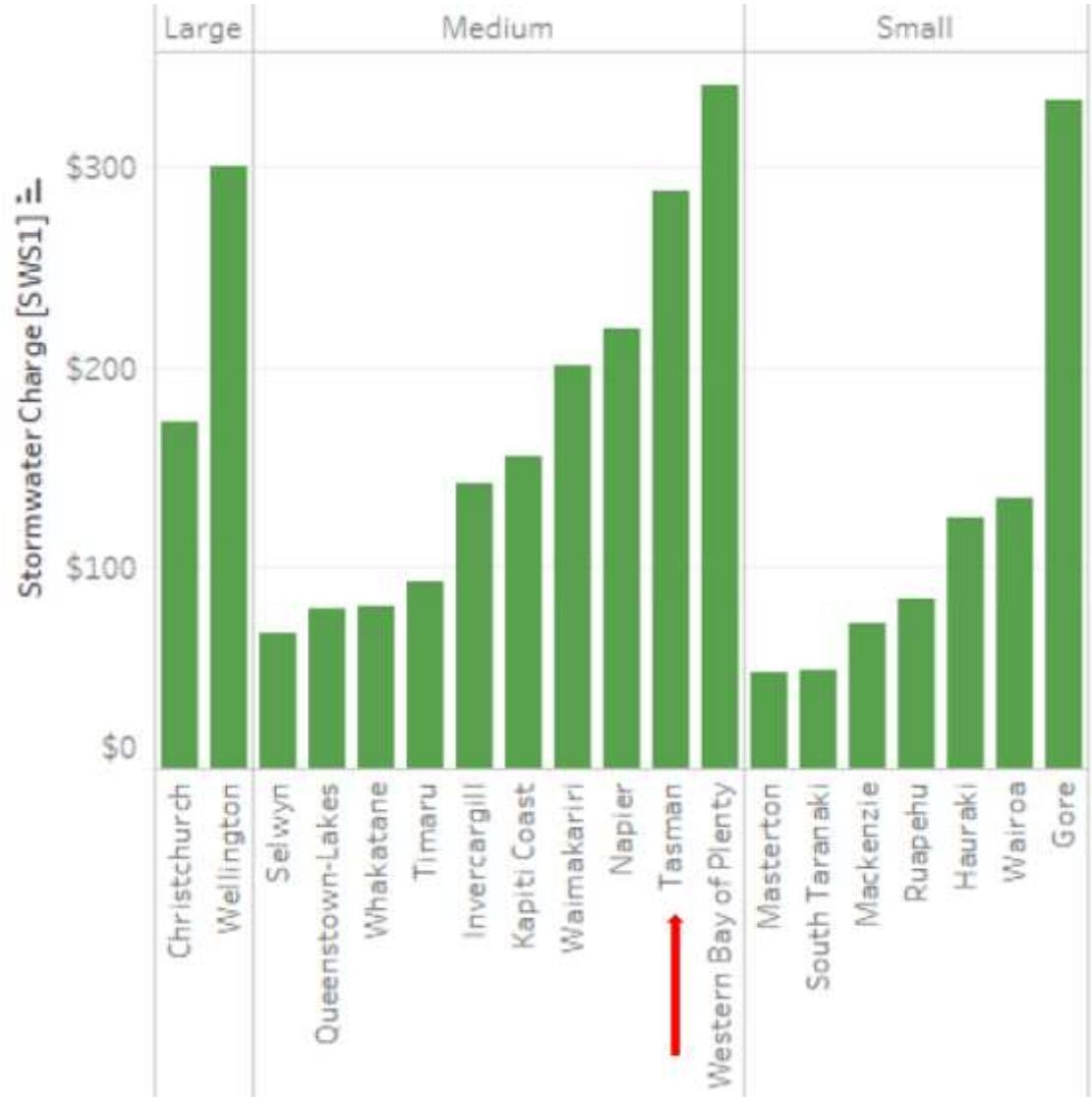


Figure 12: Average water pipeline age (years)

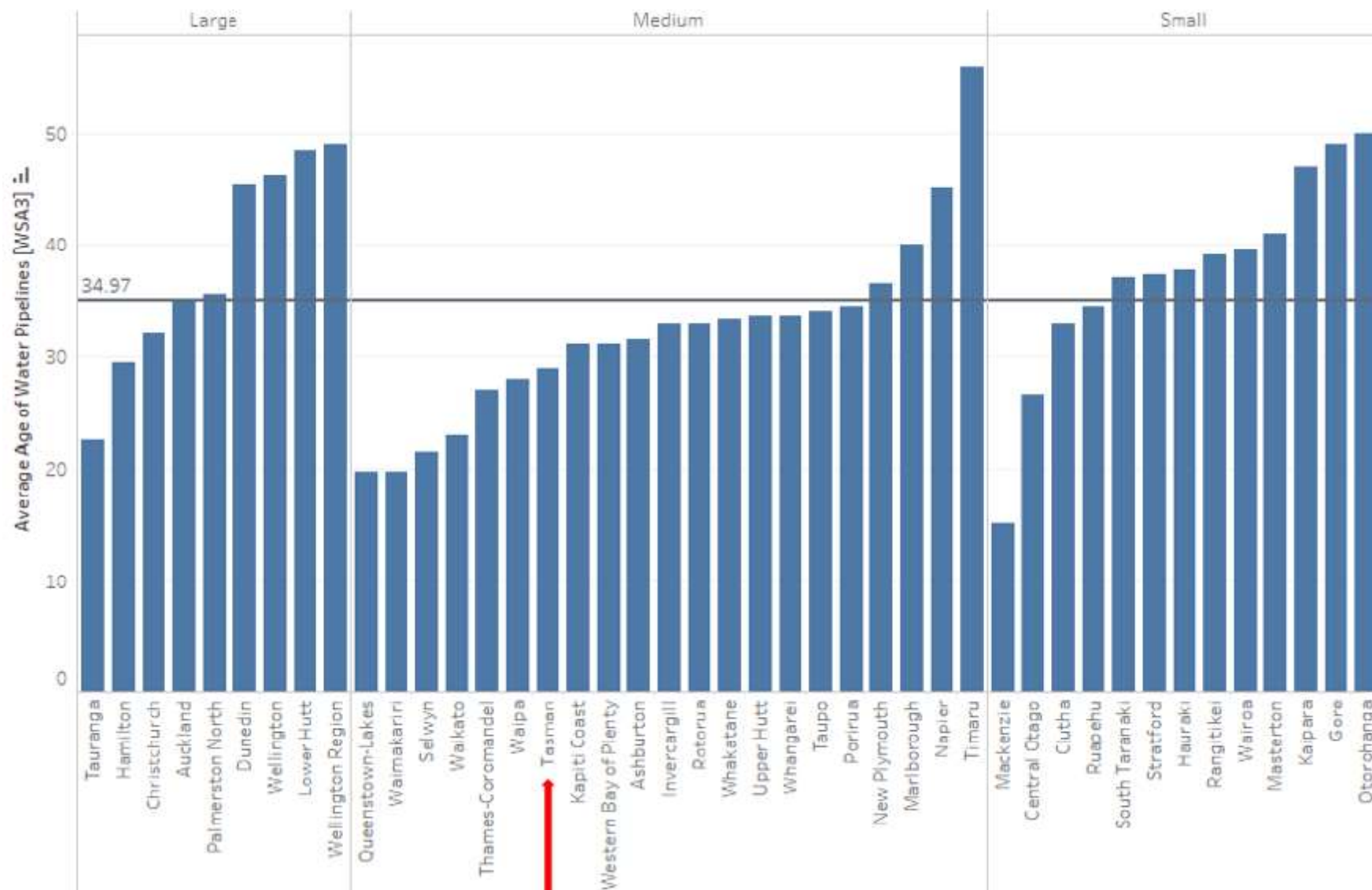


Figure 13: Average wastewater pipeline age (years)

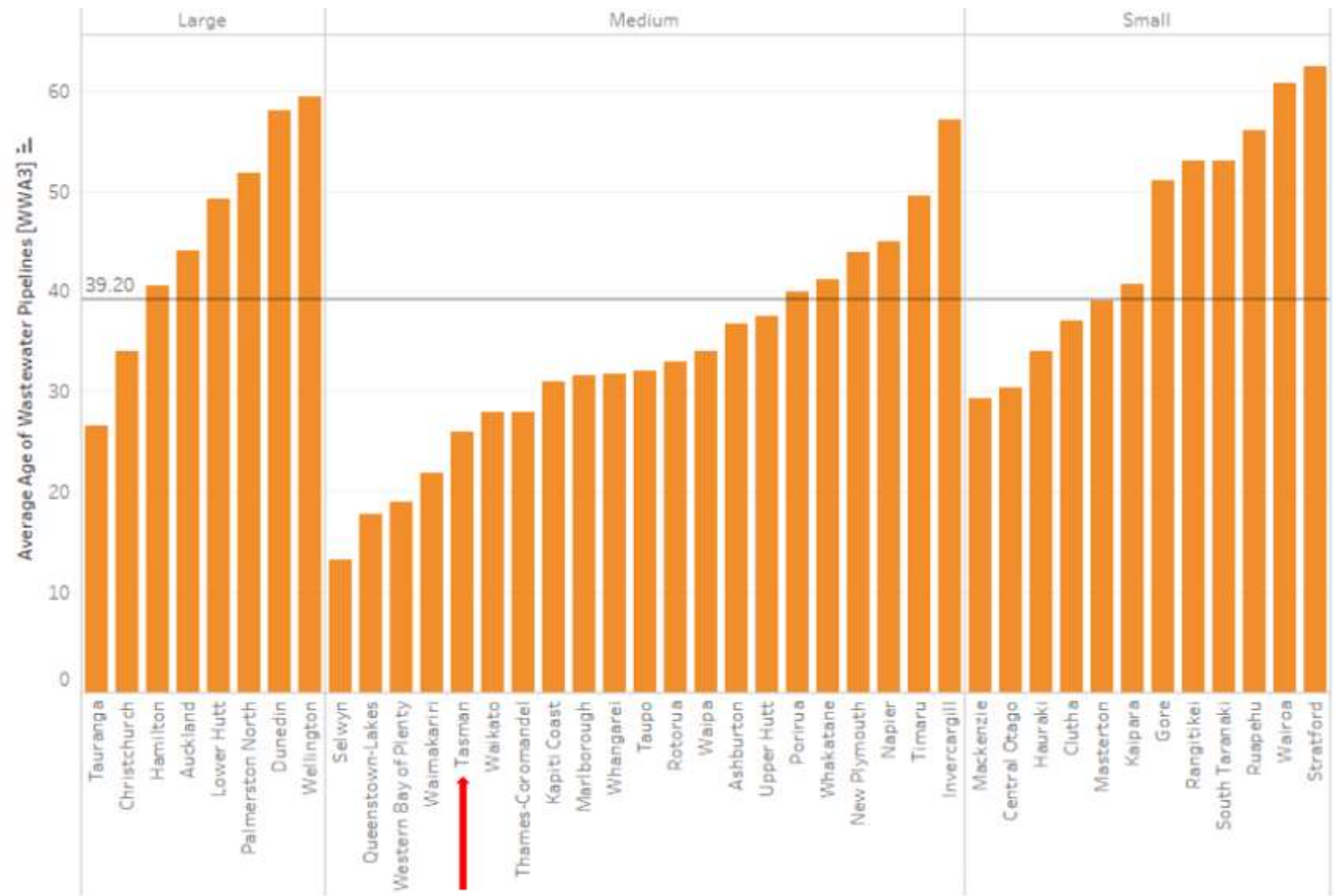


Figure 14: Average stormwater pipeline age (years)

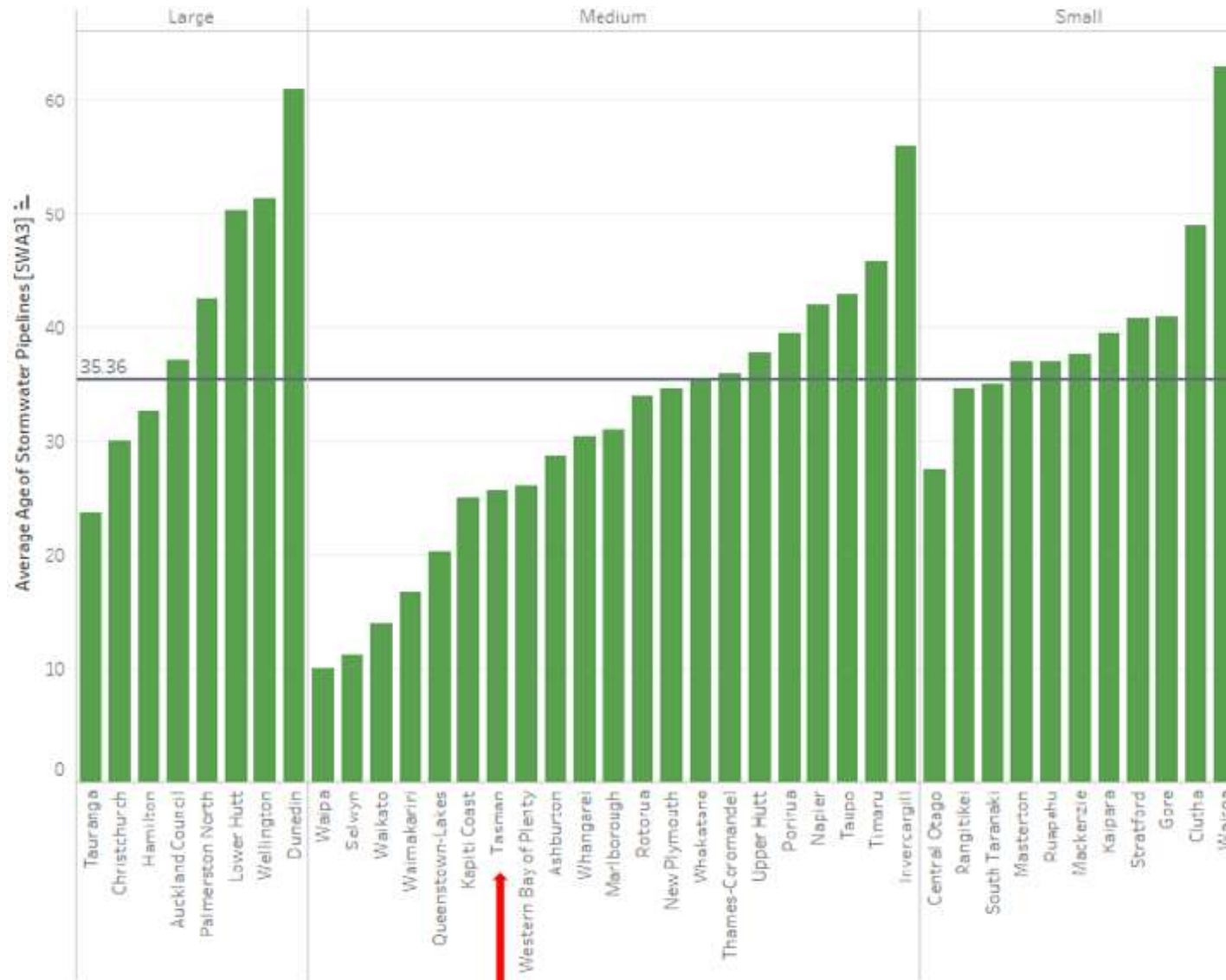


Figure 15: Percentage of non-residential connections with water meters

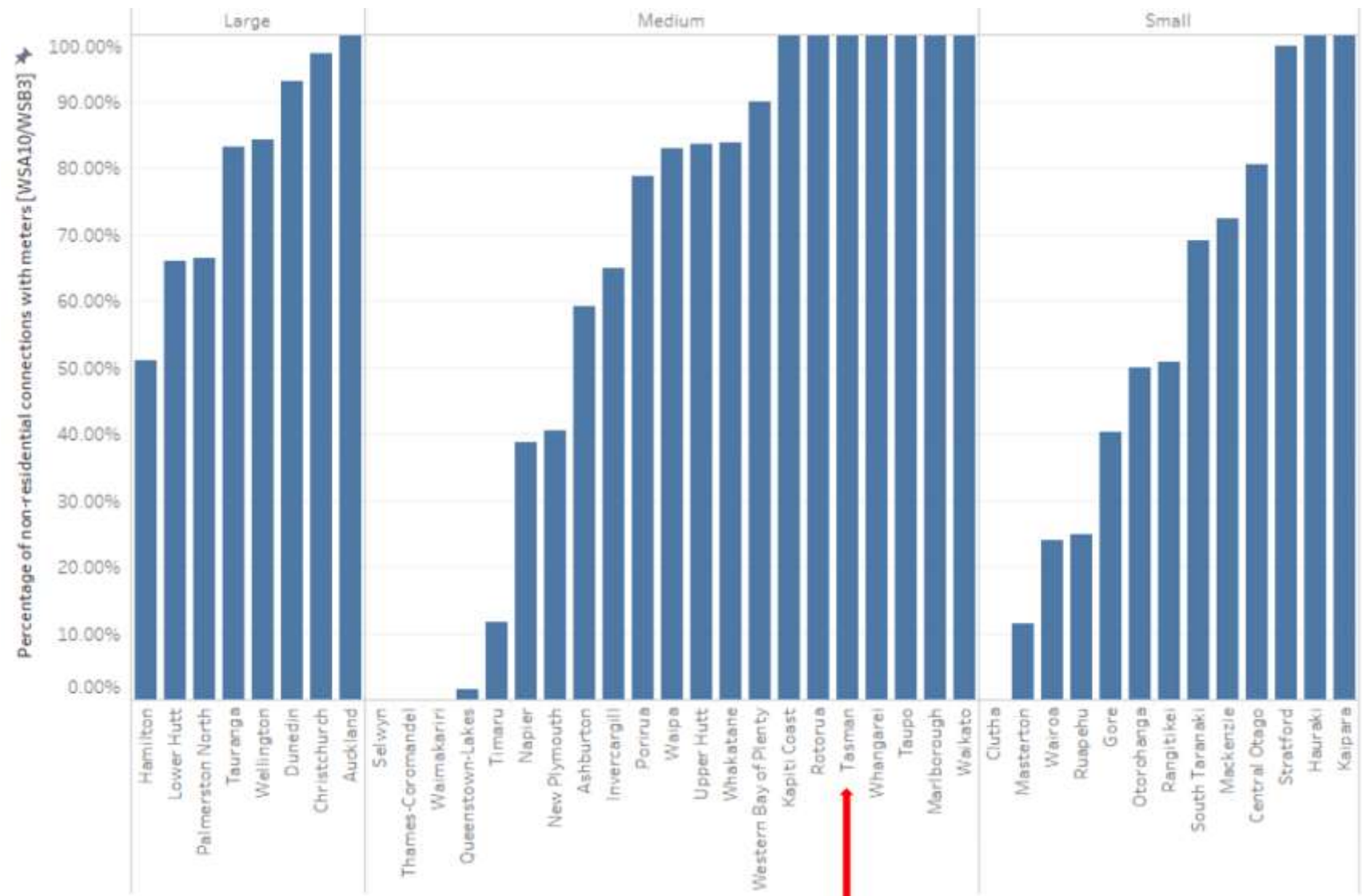


Figure 16: Number of water restrictors installed

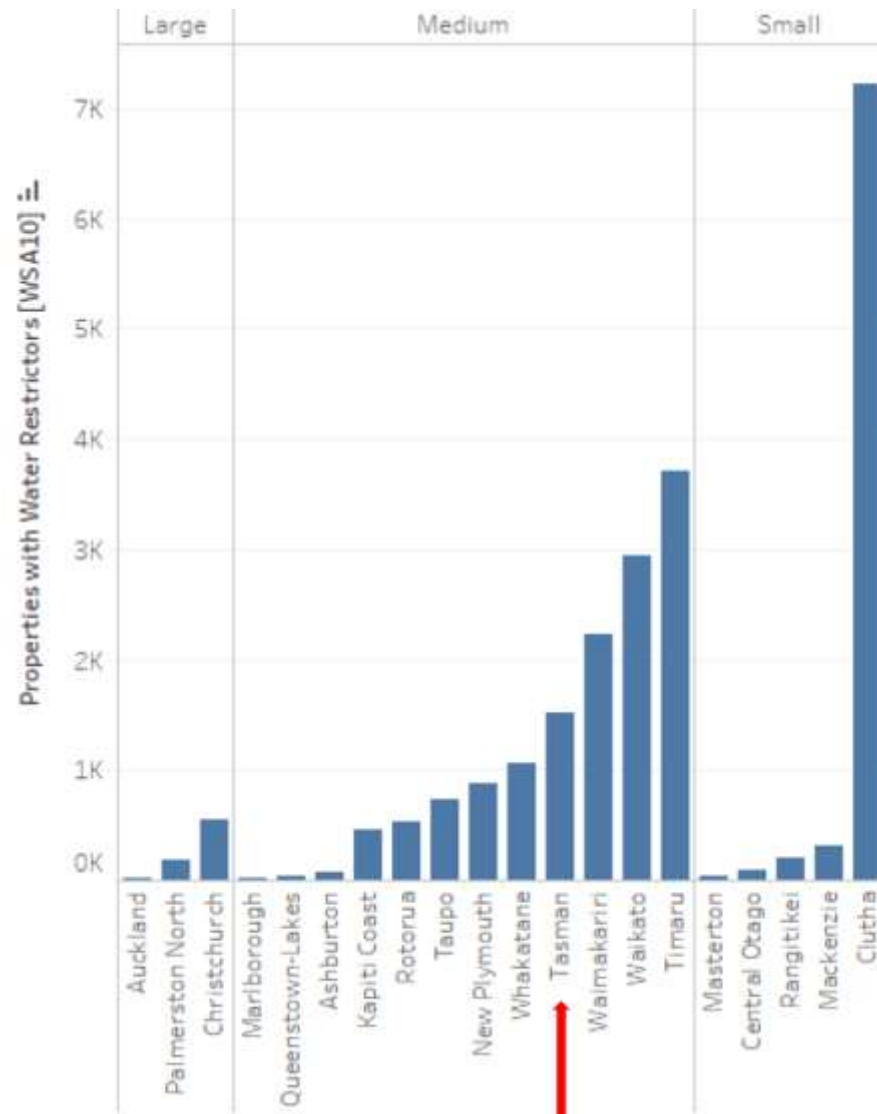


Figure 17: Number of water treatment plants with and without backup generation

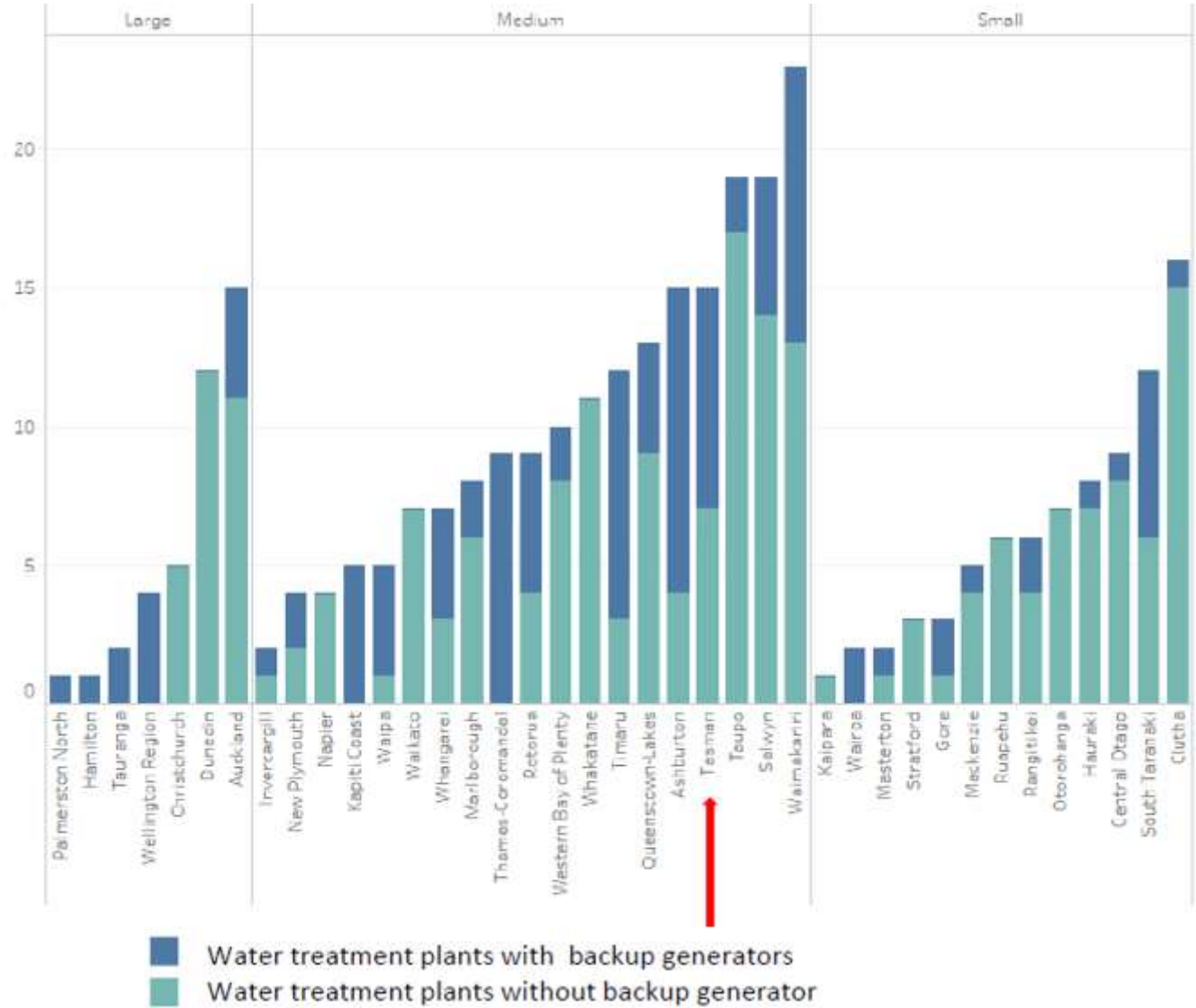


Figure 18: Number of water pump stations with and without backup generation

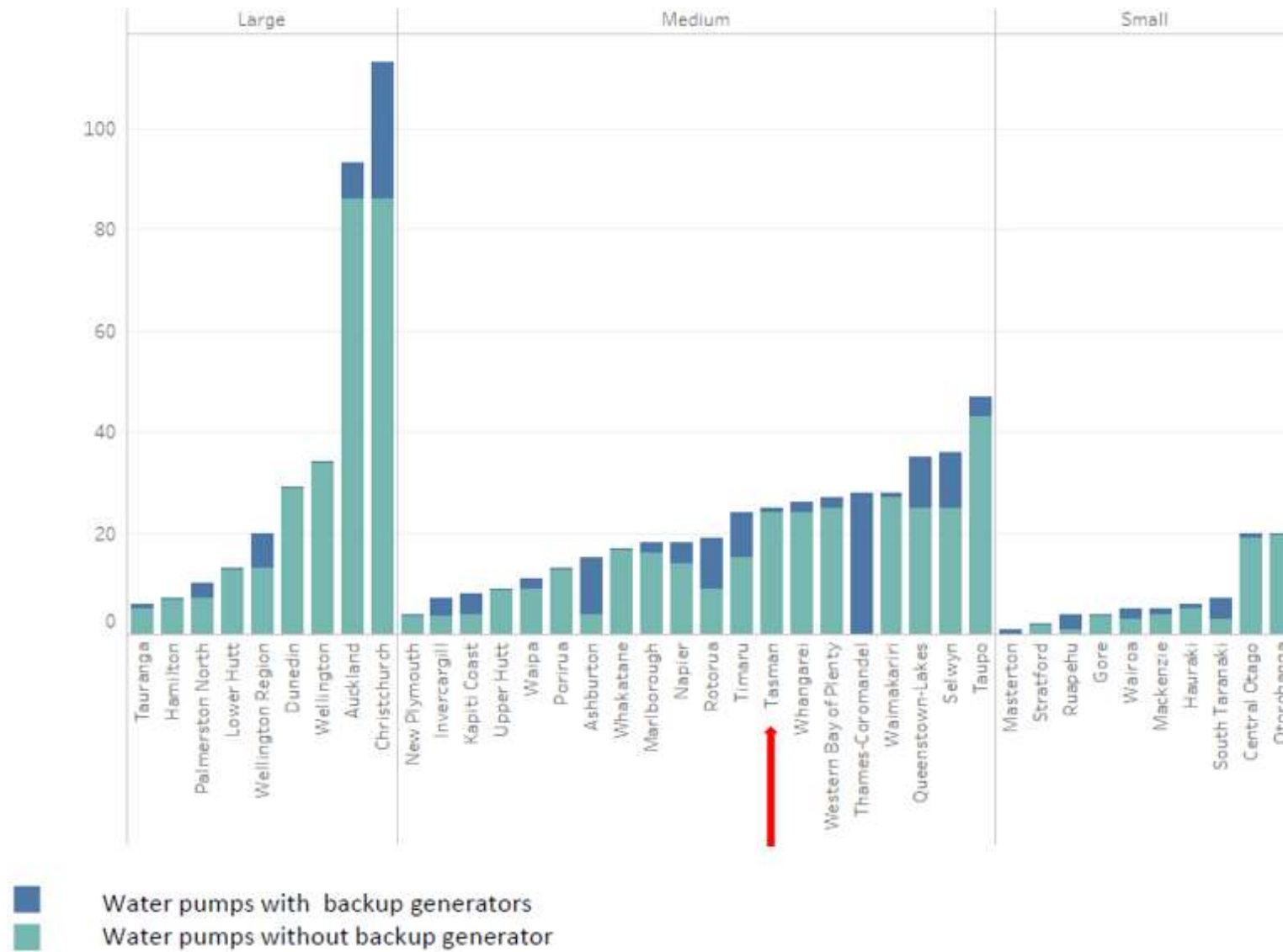
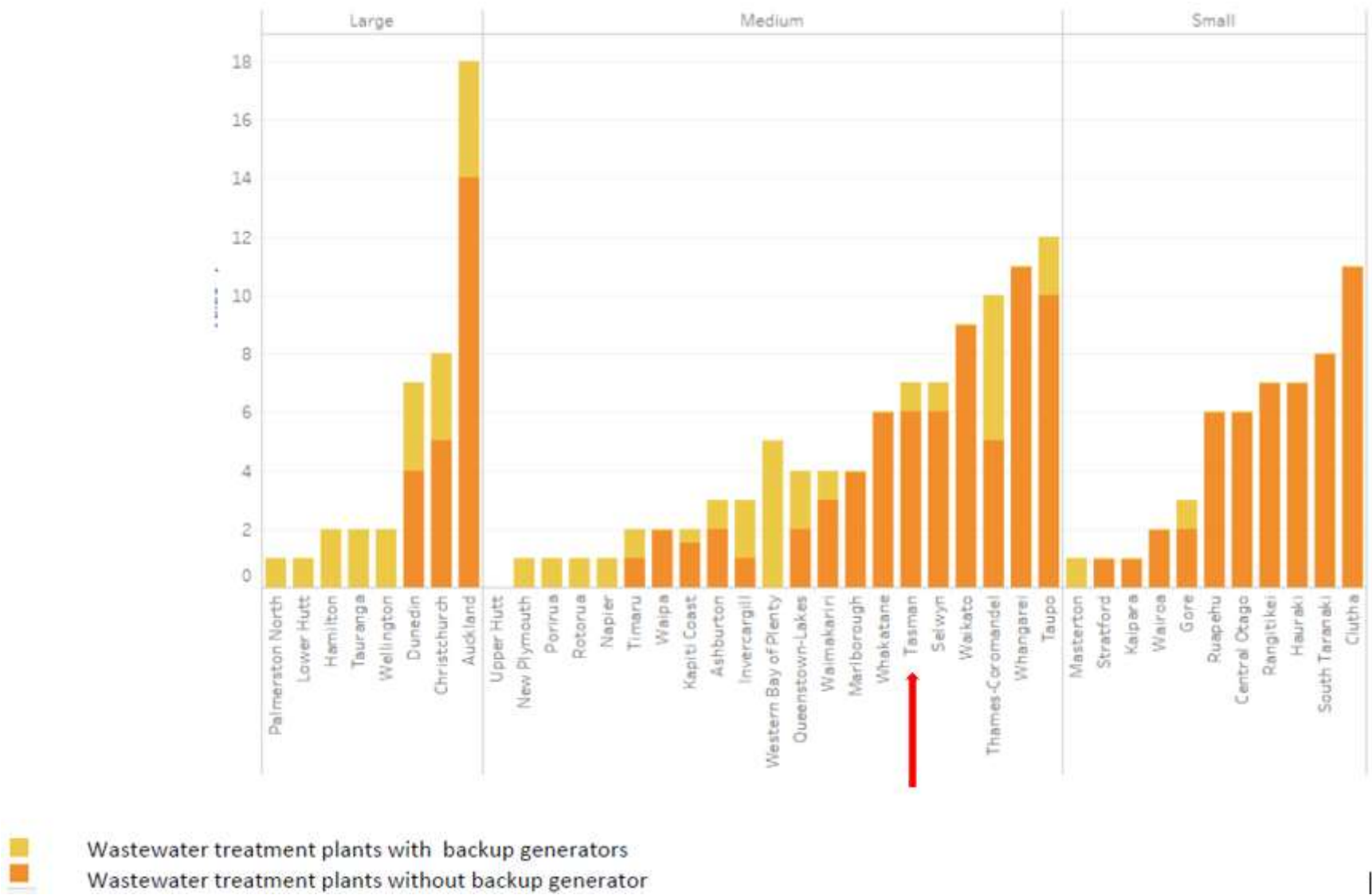


Figure 19: Number of wastewater treatment plants with and without backup generation



9.4 ENGINEERING SERVICES - ACTIVITY UPDATE**Information Only - No Decision Required**

| | |
|-----------------------|---|
| Report To: | Engineering Services Committee |
| Meeting Date: | 10 May 2018 |
| Report Author: | Richard Kirby, Engineering Services Manager; Dwayne Fletcher, Activity Planning Manager; Russell McGuigan, Programme Delivery Manager; Jamie McPherson, Transportation Manager; Mike Schruer, Utilities Manager |
| Report Number: | RESC18-05-04 |

1 Summary

1.1 This report provides a summary of activity from the Engineering Services Department.

2 Draft Resolution

That the Engineering Services Committee receives the Engineering Services - Activity Update report, RESC18-05-04.

3 Purpose of the Report

- 3.1 This report provides an update of Engineering Services activity over the past six weeks.

4 Management Update

- 4.1 The last two months have been very busy for the Engineering Services team. We have continued to meet the demands of 'business as usual' activities as well as the additional demands of recovery from ex-cyclones Fehi and Gita.
- 4.2 Most of the recovery effort is confined to transportation and rivers. There are challenges with the increased resourcing required by Downer, Council's roading contractor. There has been some slippage in performance as Downer deals with the recovery demands as well as its road maintenance obligations. We are working with them to improve this situation.

Draft Government Policy Statement on Land Transport 2018/2019 – 2017/2028

- 4.3 The draft Government Policy Statement (GPS) on Land Transport 2018/2019 – 2017/2028 was released last month. The Mayor and I attended a Ministry of Transport Summit in Wellington on Monday 16 April 2018. Transport Minister Hon Phil Twyford and Associate Ministers Hon Shane Jones and Hon Julie Anne Genter attended the Summit and made presentations as well as listening to the various panels convened to discuss aspects and potential implications of the draft GPS.
- 4.4 The strategic direction of the draft GPS is focused around a land transport system that has four priorities;
- 4.4.1 **Safety** - Is a safe system, free of death and serious injury;
 - 4.4.2 **Access** - Provides increased access to economic and social opportunities, enables transport choice and access, is resilient;
 - 4.4.3 **Environment** - Reduces the adverse effects on the climate, local environment and public health;
 - 4.4.4 **Value for Money** - Delivers the right infrastructure and services to the right level at the best cost.
- 4.5 The Government has signaled a clear direction that gives greater priority to public transport options and active transport. More attention is focused on delivering shared pathways and footpaths.
- 4.6 Submissions on the draft GPS were due on 2 May 2018 and a submission was drafted on behalf of the Council. Cr Stuart Bryant and Mayor Richard Kempthorne reviewed the submission before it was submitted. A copy of the submission will be provided to Councillors.

New Zealand Transport Agency Draft Investment Assessment Framework (IAF) and Draft Transport Agency Investment Proposal (TAIP) 2018-27

- 4.7 Subsequent to the draft GPS being released, the New Zealand Transport Agency (NZTA) released its draft Investment Assessment Framework for the 2018-21 National Land Transport Programme and its draft Transport Agency Investment Proposal 2018-2027.
- 4.8 There is nothing of major concern in the draft IAF. However in Appendix 2 it does list the urban areas of high growth and these areas attract higher funding priority. The cut-off for

growth is 10% over 10 years and Nelson and Tasman have medium forecast growth rates of just under 10%. We are submitting that we have a case to be included in the urban growth area list. Tasman's growth has been just under 10% over the last 10 years, while growth in Richmond and Nelson combined has been in excess of 13% over the same period. Furthermore, our forecasts (supported by an Infometric's report) are that growth will be higher than 10% over the next 10 years in Tasman.

- 4.9 The draft Transport Agency Investment Proposal 2018-2027 includes a significant change in content compared to what NZTA included in the RLTP 2018-2028 that the Council has just consulted on. The Tasman Regional Transport Committee deliberated on submissions to the draft RLTP yesterday.
- 4.10 As stated there are significant changes in content that need to be raised with NZTA. The key priorities in the draft TAIP for Tasman are;
- SH6 Wakefield to Richmond – National Priority 1
 - Low cost/low risk improvements 2018-2021 – National Priority 3
 - SH6/63 Intersection to Lamb Valley Road Safety Management – National Priority 4
 - SH60 Motueka to Collingwood Safer Corridor – National Priority 5
 - SH60 Richmond to Motueka Safer Corridor – National Priority 5
 - SH6 South of Tapawera Safer Corridor – National Priority 6
 - SH60 Richmond to Appleby Safer Corridor – National Priority 6
- 4.11 The recent consultation and work undertaken by NZTA on upgrading SH60 through Motueka does not feature in the draft TAIP for the next three years. Indications were that this would likely commence later this year (2018) and be completed by 30 June 2019.
- 4.12 The safety assessments on SH60 were considered a major priority by NZTA but this is not reflected in the Draft TAIP. The safety assessment of SH6 from Richmond to Wakefield has now been given a National Priority 1. Up until now NZTA has not raised this as a priority for a safety assessment.
- 4.13 My assessment is that NZTA has been working to a very tight deadline to produce the draft TAIP so soon after the release of the draft GPS by the Ministry of Transport. I suspect the time constraints has meant that NZTA has not had the chance to involve its regional staff in the development of the draft TAIP. This is not likely to be peculiar to the Top of the South, it is probably a nationwide issue.
- 4.14 We therefore need to be very focused and direct with our submission. Submissions on the draft TAIP are due on 18 May 2018. A draft submission will be circulated to the Councillors.

Government Review of Three-Water Activities

- 4.15 The Government is reviewing the management and delivery of the three-water activities as a result of the Havelock North Inquiry. It has signaled that this broad-ranging review will be undertaken this year. The Government recognises that the local government sector is facing variable service delivery challenges and significant cost pressures related to the management and delivery of the three-water services.
- 4.16 The review will be led by the Department of Internal Affairs who will work with councils, industry, sector groups and others to assess and scope options to deal with the key issues, including costs relating to better management and delivery of water services.

- 4.17 The Government intends to deal more effectively with the pressing issues confronting the three-water activities with a strategic approach in mind. It is committed to confronting the scope of this challenge whilst seeking to protect the health of people and the environment whilst also supporting a strong economy. This is in the context of climate change, declining populations in rural areas and increasing funding and financing pressures on small communities.
- 4.18 Although the Government has signaled that it will take the lead, it is expecting strong cooperation from councils, iwi and business to work with it to ensure risk, opportunities and costs are identified and managed.
- 4.19 The review will also include looking at the structures and entities that are best suited for the provision of the three-waters. The Government has signaled that the core principles of public ownership will underpin any considerations that will result from the review.
- 4.20 The review will also look at whether the existing regulatory framework for the three-waters is appropriate and fit-for-purpose.
- 4.21 Local Government NZ and Water NZ are jointly convening a Water Summit in Wellington on 30/31 May 2018 to further outline details of the Government's intentions and how local government could contribute to the review.

Capital Projects – Potential Carry Forwards

- 4.22 The table below outlines the potential surpluses and carry forwards for various capital expenditure projects from the 2017/2018 financial year.

| Project Name | 2018/2019 Carry forward in Annual Plan \$ | Comment |
|---|---|---|
| Mapua Boat Access Improvements | 83,477 | Surplus and therefore no need to carry forward |
| TIF Toilets | 55,333 | Still to do, needs to be carried forward |
| Pavement rehabilitation | 272,000 | Surplus and therefore no need to carry forward |
| Tasman's Great Taste Trail construction | 1,386,402 | Timing of MBIE funding has delayed committing investment |
| Enhance/extend landfill planting | 25,000 | Still need to finalise planting plan with submitters |
| RRC site improvements | 25,623 | Still to do, drainage improvements at Richmond RRC |
| Richmond South Stormwater land purchase | 948,731 | Lots of land in process of acquisition, especially around Borck Creek |
| Borck Creek Adaptive Plan | 38,888 | Committed for design work of Poutama and Borck Creek |

| Project Name | 2018/2019 Carry forward in Annual Plan \$ | Comment |
|---|---|---|
| Urban Drainage Areas – Discharge Consent | 65,000 | Committed for consent application (Opus) and further work planned 2018/2019 |
| Motueka – comprehensive discharge consent | 51,432 | Planning to commit to floor level surveys before 30 June |
| Growth allowance for stormwater infrastructure | 55,911 | Committed to work undertaken in Bateup Drain (next to Arizona) |
| Richmond – Ranzau Road/Paton Road/White Road | 51,000 | Planning to commit to improvements and detention Richmond South 2018/2019 |
| Richmond – Discharge consent | 39,780 | Planning to commit to floor level surveys before 30 June |
| Rezoning | 47,342 | Rezoning water reticulation and still to do so carry forward |
| District bulk water meter renewal programme | 21,000 | Still need to complete so carry forward |
| Flushing tanks decommissioning | 22,330 | Still need to complete so carry forward |
| Safety improvements | 16,000 | Still need to complete so carry forward |
| Mechanical and electrical renewals at pump stations | 100,000 | Committed but need to carry budget forward |
| Total | \$3,305,249 | |

Staff Movements

- 4.23 Jenny Callaghan, Project Manager in the Programme Delivery Team has resigned. Jenny has been in the department for about one year and has worked well in delivering projects. Jenny finishes on Friday 1 June 2018 and we wish her well in her future endeavours. We are currently advertising for a replacement Project Manager with applications closing on 9 May 2018.

5 Activity Planning

Planning, Policy and Regulatory

5.1 The table below provides a summary of key work streams.

Project Updates

| Project | Description | Status | Comments |
|---|---|----------|---|
| Transportation: Strategic Policy and Research | | | |
| District Car Parking Strategy Review | Planning process – develop a strategy for management of parking resources in the district especially Richmond Town Centre, also TRMP parking requirements. | On track | Consultation for the draft strategy closed and submissions were heard on 19 March. Timing conflicts with the hearing panel has delayed the deliberations, which are now scheduled for 23 May. It is expected that staff will present a recommendation to the Council on 28 June. |
| Richmond Network Operating Framework | In conjunction with NZTA, a Network Operating Framework (NOF) and Network Improvement Plan is being developed to better understand the current and future transport demand, and consider intervention options that make best use of the existing local and state highway network. This is in response to the NZTA's Richmond Arterial Strategic Case – SH6 which was completed in 2016. | On Track | NZTA staff are leading the project with support from AECOM consultants. Staff from both Tasman District and Nelson City Councils are also members of the project steering group. NZTA and Tasman District Council are proposing to update the existing TRACKS transportation model for the wider network and use a SATURN model to investigate specific areas. Progress on issuing a Request for Proposal (RFP) for the traffic modelling has been delayed due to recent storm events and the LTP process. It is expected that the RFP will be issued in May with modelling taking place in June and July. Outcomes from the NOF process are expected at the end of the year. |

| Project | Description | Status | Comments |
|---|--|----------|---|
| Regional Land Transport Plan (RLTP) | Mid-term review of the 2015 RLTP, including a Top of the South strategic case, and the 10 year programme for transport in Tasman (including the Council, NZTA, and Department of Conservation's proposed works). | On Track | Consultation for the draft RLTP mid-term review closed and submissions were heard on 19 March. The Tasman Regional Transport Committee recommended the speed on State Highway 60 be urgently reviewed and that priority be given to the section around Appleby. Council staff have initiated this with NZTA. Staff are writing a recommendation report for the Regional Transport Committee along with a revised RLTP which includes changes relating to the new Transport Government Policy Statement. This will be presented to the Regional Transport Committee meeting on 9 May. |
| Designation review | TRMP road (road widening) designations lapse in 2018. | On track | Work has been undertaken with both planning teams to clarify the process for rolling over designations. Work is underway to document evidence that substantive progress has been made on the designations that we plan to retain. Staff will undertake a review of the evidence and the properties prior to informing the affected property owners that we intend to extend the designations. Engineering Services staff will make a submission to Environment and Planning in mid-2018. It is expected that this will be considered at the Environment and Planning Committee meeting in October 2018. Staff will also be considering new designation sites. Staff will seek the Council's direction on these designations mid-2018. |
| Sandwich Boards Review | Develop a policy to address the use of sandwich boards in town centres. This may require a bylaw or changes to existing bylaws. | Delayed | Investigation into existing bylaws and plans has been undertaken. However, staff time has been fully utilised on other tasks contained in this report. Staff will present these findings to a Council workshop after the LTP has been adopted. |
| Stormwater: Strategic Policy and Research | | | |

| Project | Description | Status | Comments |
|--|---|----------|---|
| Richmond Catchment Management Plan (CMP) | An integrated catchment-wide plan for stormwater management. The plan will identify and address key issues such as water quality, quantity, stream health and effects from developments in a holistic manner. | Delayed | <p>A draft Urban Stormwater Catchment Strategy has been developed and sent to iwi for their feedback. Feedback is due prior to the end of May.</p> <p>Data processing and development of a draft CMP is currently underway for delivery in the Storymap format. The majority of the work is progressing well and some early draft versions have been shared with staff. One key aspect of the CMP is currently on-hold due to further delays in the delivery of stormwater modelling and flood mapping.</p> <p>We expect a draft CMP to be finalised and presented to the Council in July 2018.</p> |
| Richmond stormwater modelling | A stormwater model for Richmond to identify locations that are at risk of stormwater flooding in 1% and 10% AEP events | Delayed | <p>Staff expect to receive acceptable model results before the end of April.</p> <p>Once the model is formally accepted a number of different scenarios will be modelled to identify the effects of climate change, future development and LTP projects on stormwater flooding in Richmond with an estimated delivery date of June.</p> <p>The next stage of modelling will identify design details of improvement options for key areas of concern and model their effects on surface flooding and is programmed to commence in July.</p> |
| Motueka integrated flood modelling | An integrated flood model taking into account different aspects such as stormwater flooding, river flooding and coastal flooding. | On Track | <p>The model build for Motueka by Tonkin & Taylor is progressing well. First results have been shared with staff and show a good fit with known flooding areas and existing records of flood complaints. Staff will present key outputs from the model to the Council mid-year. Results from the modelling will feed into development of the Motueka CMP.</p> |

| Project | Description | Status | Comments |
|--------------------------------------|---|----------|--|
| Discharge Consent | A resource consent is required for the diversion and discharge of stormwater from Council's public stormwater networks in accordance with the provisions of the Tasman Resource Management Plan. | On Track | Staff have engaged Opus to prepare the consent application. A high level approach and timeline for the consent application has been agreed between the regulatory team in Council and Engineering Services. Work on a first draft consent application has commenced and it is anticipated that the consent can be lodged in the third quarter of 2018. |
| Water: Strategic Policy and Research | | | |
| Water Restriction Guidelines | Development of Water Restriction Guidelines to help the community understand how the Council will restrict water use during times of drought. | On track | Staff presented draft guidelines at a workshop following the last Committee meeting and are now in the process of finalising them. A report recommending the protocols be adopted for public consultation is being considered at this meeting. |
| TRMP community water supply policy | An issue with the TRMP has been identified and needs resolution. The issue relates to the exercise of Council water supply consents in the Waimea plains under a no dam scenario or lack of progress with the Waimea Community Dam. | On track | Activity Planning staff have been working with Environmental Policy staff to better understand the scope and scale of the issue. Environmental Policy staff are presenting options to address the issue to the Environment and Planning Committee in early May. |
| Other Projects | | | |
| Response to LTP Submissions | Prepare response to LTP submitters and make recommendations to Council on changes to the draft LTP. | On track | Staff have been working through and responding to the LTP submissions and recommending changes where required. This has been a significant task completed over a very short timeframe. |

| Project | Description | Status | Comments |
|--|--|----------|--|
| Risk, resilience and recovery planning | Undertake comprehensive risk, resilience and recovery planning that covers three waters and transportation. | Started | <p>The work will strategically consider natural hazards such as flooding, climate change and fault ruptures.</p> <p>This work is planned to start in earnest from mid-2018. Staff are currently working to identify the scope of the work and consider what other councils have done.</p> <p>Staff have made initial contact with Wellington Water to learn about their approach, insights and lessons learned in their resilience planning journey. Wellington Water have shared their strategic business case and resilience strategy for staff to consider.</p> |
| Development contributions review | Review development contributions policy, reviewing catchments, the way development contributions are calculated, and intensive housing provisions. | On track | <p>Consultation on the draft DC Policy closed on 5 April 2018.</p> <p>Staff are continuing to work on the internal systems and process changes that are required in order to administer the new catchment based charges. These changes will be in place by 1 July 2018.</p> |
| Infrastructure Strategy | Overarching strategy for long term infrastructure management for 30 years | On track | <p>Consultation on the draft Infrastructure Strategy closed on 5 April 2018.</p> <p>The Infrastructure Strategy has been sent to Waugh Infrastructure for their peer review. The peer review report is due in May.</p> |
| AMPs | Activity Management Plans for transportation, water, wastewater, stormwater, waste management and minimisation, rivers, and coastal assets. | On track | <p>Consultation on the draft AMPs closed on 5 April 2018.</p> <p>The AMPs have been sent to Waugh Infrastructure to undertake an external peer review and provide advice on areas for improvement.</p> <p>Staff will consider feedback from the peer review and address any priority issues when preparing the final AMPs for adoption. If recommendations are not a priority they will be added to the AMP improvement plans.</p> |


| Project | Description | Status | Comments |
|---------------------|---|----------|---|
| Maps and schematics | Water and wastewater networks maps and schematics. | On track | Staff are developing a set of network maps that illustrate network extents and boundaries. Working with consultant to develop network schematics. |
| Land acquisition | Several waterway and strategic land purchases are being investigated or pursued | On track | Land purchases in progress are mainly associated with stormwater designations. Staff are currently considering options for securing land for the future Richmond South reservoir. |



Development engineering

General

- 5.2 Staff have received several enquiries related to developing existing zoned residential areas that are in flood risk prone areas (coast and flood plains). These are proving difficult to develop economically given the risks they are subject to.

Key subdivisions

| | | | |
|---|-----|--|--|
|  Application Stage | | | |
| Retirement villas, townhouses, commercial buildings. | 267 | Villas/Townhouses/Commercial | Application being processed |
| The Fields | 72 | Sites vary from ~240m ² to ~800m ² | Pre-application. Mixed density proposed, including townhouses |
| 428 Lower Queen Street | 17 | Mixed Business | Council working with developer for stormwater discharge to estuary |
| Two recent deferment uplift requests to allow residential development | ~10 | Richmond south location | Was subject to water availability but solutions have now been identified |

|  Engineering Plan Stage | | | |
|--|----|--|---|
| St Ledger, Champion Road | 13 | Residential fully serviced subdivision | Final Engineering Plans submitted awaiting review of earthworks component |
| Appleby Fields, Richmond West | 53 | Residential fully serviced subdivision | Preliminary plan check completed awaiting for final stormwater Design of Poutama Drain by Stantec |
| Ecology | 7 | Rural Residential unserviced | Plans checked and comments provided awaiting final amended Plans. Earthworks commenced. |
|  Construction Stage | | | |
| Grey Street Subdivision (Motueka) | 26 | Stage 4 of the subdivision | Sewer and stormwater are being installed |
| Beaches and Bays (Little Kaiteriteri) | 18 | Residential subdivision | Construction start delayed due to recent weather conditions |
| Wakefield Developments - Lord Auckland Road (Wakefield) | 24 | Residential subdivision | Stormwater and wastewater installation |
| Appleby Hills Stages 11-14 (Appleby) | 23 | The final stages of the Appleby Hills subdivision | Expecting as-built plans to be submitted soon |
| Mapua Land Holdings (Old Coach Road) | 18 | Rural residential subdivision | Road formed and sealed |
| Pastures (Richmond) | 7 | Seven residential lots served by existing Highland Drive formation and a new right-of-way. | Earthworks commenced |

| | | | |
|--------------------------------------|--------------------|--|---|
| Puketutu Stage 3B (Motueka) | 17 | The final stage of the Puketutu subdivision | Variation to consent obtained and as-built plans submitted for approval |
| 382 Pomona Rd (Ruby Bay) | 8 | Unserviced rural residential subdivision | Earthworks commenced |
| Arizona – Hart Rise Stage (Richmond) | 37 (current stage) | Located in Richmond South along Hart Road and Paton Road. One hundred and thirty two (132) residential lots in total over seven stages | As-built plans expected soon |
| Carmello stage 2 (Richmond) | 15 | Extension of Campari Drive. These sites will provide underground tanks for stormwater detention | Construction continuing |
| Aporo Road (Ruby Bay/Tasman) | 15 | Rural residential lots unserviced | Construction continuing |
| Mapua Coastal Village Stage 2 | 15 | Second stage continuation of Iwa Road to install private wastewater pump stations. This site has an allocation of reticulated water for these lots | Construction nearing completion and staff expect 224 request for this stage within the next month |

Featured Development – Pitfure Close, Wakefield

- 5.3 This subdivision was approved last year for 63 lots ranging in size from 650 m² to 900 m². The site can be serviced by water and wastewater but the developer will need to install a detention basin to manage stormwater peak flows into the Pitfure Stream. The developer has not shown interest in proceeding further with the development at this stage.



6 Programme Delivery

| Project Stage | Total |
|--------------------|-------|
| Preliminary Design | 15 |
| Detailed Design | 6 |
| Procurement | 4 |
| Construction | 16 |
| Grand Total | 41 |

Tenders Awarded since last Report

| ID | Name | Procurement Plan / Methodology | Date Contract awarded | Tender Value (Excl. GST) | Range of Tendered Prices | Contractor |
|------|--|--------------------------------|-----------------------|--------------------------|----------------------------------|---------------------|
| 1047 | Richmond Bateup Road Widening | Price Quality Method | 19/03/2018 | \$3,618,875.00 | \$3,618,874.95 to \$5,507,907.44 | Higgins Contractors |
| 1065 | Three Waters Operational and Maintenance | Price Quality Method | 05/04/2018 | \$22,871,110.00 | \$32,293,298 to \$33,155,038 | Downer NZ |

Projects in Preliminary Design Stage

| ID | Name | Project Description | Project Status | Estimated Tender Upload Date | Comments |
|------|--|--|----------------|------------------------------|--|
| 1106 | 2017 District-wide Closed Landfill Cap Renewals | Inspection, renewal and improvement to capping and edge protection at priority sites 2017/18. | | | Preliminary work on prioritising sites underway. Physical work to be procured via variations under various existing contracts |
| 1123 | 2017 Richmond McGlashen Av Stormwater Improvements | Stormwater intake to collect overland flow from McIndoe Place/McGlashen Avenue area into an existing stormwater pipe that is already installed across the deviation and discharges into the Beach Road drain. Pipe connection beside deviation and at the back of 40 McGlashen Avenue, Richmond. | | | The aim of this project is to install a grated inlet in the Richmond deviation berm close to McGlashen Avenue. Currently reviewing options. |
| 1131 | 2017 Mariri RRC Right of Way Access | Construction of right-of-way access to Mariri RRC. | | | Price has been requested via C1091A and is being assessed. Work is planned for completion by 30 June 2018. |
| 1119 | 2017 Motueka New Caravan Dump Station | Design, consent, and construct a new caravan dump point on Marchwood Park Road on Motueka Aerodrome land (Council-owned). | | 01/05/2018 | Funding is now in place from the Tourism Infrastructure Fund. It is proposed to build at the Motueka Aerodrome and use a similar design to the Richmond Caravan Dump |

| ID | Name | Project Description | Project Status | Estimated Tender Upload Date | Comments |
|------|--|--|----------------|------------------------------|---|
| | | | | | Station. Consultation and design work will begin at the end of March. |
| 1105 | 2017 Takaka Resource Recovery Centre Upgrade | Upgrade of the Takaka RRC, including waste compactor, weighing system, bin storage, disposal pit & offload area, kiosk, recycling drop-off & storage and safety, drainage & security improvements. | | 04/07/2018 | Initial scoping underway. Funding allows for design only in 2017/18. Construction in 2018/19 |
| 1132 | 2017 Mapua Wastewater & Water Advanced Works | There is an existing project to upgrade water and wastewater reticulation in Mapua and Ruby Bay (C1120). Part of the project will be delivered early to solve a problem with wastewater overflows at Mapua School. | | 11/07/2018 | A section of work from the Aranui Rd and Stafford Drive water and wastewater upgrades project in Mapua has been split off into a separate project. This is to solve a problem with wastewater overflows at Mapua School. The present focus is on sizing pipes correctly to allow for future growth while staying within budget. |
| 1130 | 2017 Motueka Reticulation Zone of Effect | To reticulate an area in the north west of Motueka and provide connections and meters at all properties in this area. Residents do not have to connect but may choose to do so. | | 25/07/2018 | Early stage of design |
| 1086 | Poutama Drain Upgrade 2017/18 | Upgrade of Poutama Drain for stormwater to meet growth of Richmond. | Land | 05/09/2018 | Detailed design progressing. Valuations for Vercoe land are progressing very slowly. There is uncertainty about land requirement along Railway Reserve. |
| 1058 | Motueka New Water Treatment Plant | Design a new water treatment plant at Parker Street site to supplement the existing Recreation Centre supply. | | 12/09/2018 | Scope at Parker Street site is to be confirmed once the preliminary design is finalised. The options are to account for staged development and water uptakes. Geotech investigation is complete. Water quality testing underway to establish the basis for design. |
| 1057 | Pohara Stormwater Improvements | Upgrade infrastructure to mitigate flood impact. | Late | 18/09/2018 | Detailed design of solutions for individual properties are being agreed with property owners. When property owner approval is |

| ID | Name | Project Description | Project Status | Estimated Tender Upload Date | Comments |
|------|---|---|----------------|------------------------------|--|
| | | | | | obtained, the Resource Consent application will be submitted. Physical works are planned for September. |
| 1120 | 2017 Mapua Stafford Drive-Aranui Road Water &WW Upgrade | <p>1. (AMP 96007) Construction of a new Stafford Drive WWPS (replacing Tait WWPS) and new rising main to Mapua Wharf WWPS.</p> <p>2. (AMP 96011) Upgrade of Ruby Bay WWPS including, greater pumping capacity (pumps and rising main), odour treatment, and emergency storage.</p> <p>3. (AMP 86026) Replace water pipes from Mapua Wharf along Aranui Road to Mapua Drive; Stafford Drive from Aranui Road to the junction with the main to Pomona Road Reservoirs; Stafford Drive to intersection at Brabant Drive.</p> | | 16/01/2019 | The current focus is on preparing our resource consent application, sizing pipes correctly to allow for future growth while staying within budget, progressing land purchase, and developing a plan for managing dewatering. |
| 1019 | Wakefield New Water Treatment Plant | New water treatment plant for Wakefield. Pipe into reservoir covered by new project - 1121. | Cost | 20/03/2019 | An updated cost estimate is significantly higher than budget. Work has been stopped on the project while budget implications are considered. A list of potential cost savings has been produced. We will continue with plans to install a power supply to the water supply bores so that more raw water quality analysis can be completed. If we test water over the winter and find that quality is better than expected we may be able to make savings by installing cheaper treatment technology. |

| ID | Name | Project Description | Project Status | Estimated Tender Upload Date | Comments |
|------|---|--|----------------|------------------------------|---|
| 1121 | 2017 Wakefield Water Treatment Plant Pipe | New water pipeline to run off the main highway (Higgins Road/Telenius Road) and directly into the reservoir. Project split-off from 1019. Wakefield New WTP. | Cost | 11/05/2019 | This project has been delayed as we do not want to construct the Wakefield transmission pipeline until we can confirm that the Wakefield water treatment plant can be built for a cost that the Council can afford. Work is progressing on options for reducing the cost of the pipeline. The cost estimate for the pipeline is also currently above available funds. |
| 1098 | 2017 Brightwater Town Centre Upgrade | Investigation and design for renewal of streetscaping of Brightwater town centre. | | 03/06/2019 | The inception stage and concept stage has now been completed and signed off. Detailed design is underway and this will be completed in June 2018. Construction will commence July 2019 |
| 1062 | Borck Creek Widening Phase 2 | Upgrade of Borck Creek from Poutama Drain confluence to SH60 | | 01/07/2020 | Funding to complete design to inform developers and future Tasman District Council planning. |

Projects in Detailed Design Stage

| ID | Name | Project Description | Project Status | Estimated Tender Upload Date | Comments |
|------|---|--|----------------|------------------------------|---|
| 1056 | Pohara Water Treatment Plant Upgrade | Preliminary design is complete of the Pohara Water Treatment Plant upgrade. This is to improve water quality and to comply with the NZ drinking water standards (DWSNZ). | On-Hold | | Scope yet to be confirmed. Current budget (\$409,000 2018-20) may not be sufficient to fund the preferred membrane filtration option. Design to be completed in 2017/18. Some minor improvements to be carried out on WTP building. |
| 1068 | Ledger Goodman Park Wastewater Pump Station | Relining of Ledger Goodman Wastewater Pumpstation wetwell. Potential for installation of bypass chamber, | Late | | The mechanical/electrical work is to be procured via a variation to Contract 688, and wetwell coating completed by a wetwell coatings specialist. Bypass chamber to also be procured via Contract 1065 |

| ID | Name | Project Description | Project Status | Estimated Tender Upload Date | Comments |
|------|--|---|----------------|------------------------------|---|
| | | electrical and mechanical work to be procured via Operations and Maintenance Contract 688 | | | |
| 1112 | 2017 Riwaka-Kaiteriteri Rd Curve Widening | Investigate and construct localised curve widening for the worst corner on the Riwaka-Kaiteriteri Road from Stephen's Bay to Kaiteriteri Road. | | | Design of this project is ongoing, however construction will be delayed due to lack of funding |
| 1128 | 2017 Takaka Abel Tasman Drive Curve Widening | Improve corner radius to improve corner visibility, prevent vehicles glossing the centre line and provide a shoulder for cyclists | | 02/05/2018 | This project is part of the minor improvements project. |
| 1101 | 2017 Waimea Water Treatment Plant Upgrade | Upgrade the Waimea WTP (flow to Mapua) to meet Drinking Water Standards | | 02/05/2019 | Requires funding to start detailed design. |
| 1071 | Washbourn Gardens Stormwater Diversion | Washbourn Gardens Stormwater Bypass - new stormwater pipe from Washbourn Gardens to Poutama Drain to relieve stormwater flows on Queen Street including stormwater diversion from Gladstone Rd to Poutama Drain to allow the Washbourn Gardens stormwater bypass to cross Gladstone Road. | | 01/07/2021 | Preliminary Design approved. Due to financial constraints the project start date has been delayed to July 2021. All preliminary and detailed designs will be completed 17/18 and 18/19 financial years. |

Projects in Procurement Stage

| ID | Name | Project Description | Project Status | Tender Close Date | Comments |
|------|---|---|----------------|-------------------|--|
| 1059 | Trewavas WWPS Emergency Storage | New emergency overflow storage | Late | | Design option confirmed. To be procured via Contract 1065 |
| 1111 | 2017 Motueka WWTP Wetland Restoration | Wetland restoration as a follow on project from the Motueka Wastewater Treatment Plant. | | 11/04/2018 | Plants purchased. Tender uploaded 14 March 2018. Two stage planting scheduled for June 2018 and June 2019. Changes to project timeline and capex carry over 2018/19 approved. |
| 1100 | 2017 Richmond Rezoning McGlashen Avenue | Stage 1) Connection from the end of McGlashen Street to Stratford Street Across SH6 and NZTA Land. Stage 2) Replacement and upsize of Cast-iron main in Salisbury Road to enable rezoning from Arbor-lea Avenue through to McGlashen Street/Talbot Street. | | 02/05/2018 | Stage 1: NZTA approval to cross State Highway has been granted in principle. Contract is currently out for tender. Stage 2: Consultant engagement for design underway. |
| 1099 | 2017 Pohara Four Winds Pump Station & Rising Main | Upgrade the pump to meet current Council standards, capacity for growth, emergency storage and active odour treatment; Upgrade of the electrical and digital telemetry system, including capacity to connect to a backup generator; Rising main upgrade for growth and storm flow capacity. | | 09/05/2018 | Land issues resolved. Detailed design complete. Resource consent and HNZ authority granted. Geotechnical investigations completed. Seismic resilience option selected. Out for tender. |

Projects in Construction Stage

| ID | Name | Project Description | Project Status | Comments |
|------|---|--|----------------|---|
| 1000 | Kaiteriteri Replacement Wastewater Pipeline | Replace estuary pipeline with pipeline in road. Upgrade 2 pump stations. Improvements to local wastewater network. | | Good progress being made on sewer main construction - main pipeline 100% complete. Pump station work has started. |
| 1040 | Borck Creek Planting Programme | Planting programme for Borck Creek | | Borck Creek has been planted. Closing out project. Ongoing maintenance under C1040 contract. Practical Completion will be at end of maintenance period. |
| 1047 | Richmond Bateup Road Widening | Widening of Bateup Road to provide for growth in Richmond South. Year 1 and 2 design, Year 3 construction. | | Bateup Road started on 16 April and is due to be completed mid-March 2019 |
| 1060 | Lower Queen Street Stormwater | Stormwater upgrade in Lower Queen Street to enable development. | | Contract awarded. Work due to start May 2018 for Lower Queen Street only. |
| 1065 | Three Waters Operational and Maintenance | New Three Waters Operations and Maintenance Contract, which will begin service on 3 July 2018. Key objectives are to efficiently and sustainably manage water, stormwater and wastewater services and networks, improve operational responsiveness, provide better data on the condition of assets, and reduce demand on Council's internal resources to manage day to day activities. | | Downer awarded contract C1065 following Council approval on 5 April 2018. The contract transition work stream is in progress in preparation for contract start 3 July 2018. |
| 1093 | Headingly Lane Gravity Sewer | Part of Lower Queen upgrade to service growth in the area. | Cost | Work is nearing completion on the Headingly Lane Gravity sewer project. Practical completion is close and minor defects are being resolved. |

| ID | Name | Project Description | Project Status | Comments |
|------|--|--|----------------|--|
| 1094 | Lower Queen St Water and Sewer Pipelines | Renewal of watermain and installation of new sewer main. | | Construction 30% complete - practical completion expected June 2018. Change of methodology to directional drilling to speed up progress. |
| 1103 | 2017 Motueka Poole Street Stormwater Upgrade | To increase the stormwater pipe system capacity from the Jocelyn Street area, down Poole Street to link into the upgraded pipe installed along High Street to Fearon Street in 2018. | | Downer will complete this project mid-May. |
| 1108 | 2017 District-wide Bridge Structural Components | Key structural repairs and replacements to identified assets within the 2017-18 financial period. Works are District-wide. | | Contract has been awarded to Tasman Civil Ltd. Physical work is due to commence. As a result of damage to bridge sites following recent storm events, additional scope has been added to the contract. Work on Kaituna bridge repair has commenced. |
| 1109 | 2017 Richmond South Watermain Arizona Paton-Bateup | Development of the new trunk main from the Richmond Water Treatment Plant to the proposed future reservoir site in Richmond South. This is for the Arizona Paton Road-Bateup Road section. | | Awarded to Ching Contracting. The final section of work in the Arizona subdivision is now complete. |
| 1118 | 2017 Richmond WTP Capacity Increase | The work is to construct a pipe from the existing header in the plant to approximately a meter from the site boundary which will link up to a pipeline to be installed under Borck Creek. | | This work is being completed in accordance with a Development Agreement. Works are split into Developer Works and Council Works. Developer Works have begun and include construction of a new balance tank, associated pipe work and a new generator. Coman Construction are building the new balance tank and have taken possession of their fenced off part of the site. Council works have also begun and include connecting with the live treatment plant. Process Flow are completing this work. Target completion for all works is September 2018. |
| 1124 | 2017 Richmond West Trunk Watermain – Section 1 | Watermain from Richmond Water Treatment Plant alongside Borck Creek - approx. 840m. | | Awarded to Ching Contracting. The pipeline has been completed as far as possible until nursery trees in the way are removed in July as per landowner agreements. The crossings under Borck Creek and Poutama Drain are complete. |

| ID | Name | Project Description | Project Status | Comments |
|------|---|---|----------------|--|
| 1125 | 2017 Lower Queen St-Waimea Estuary Stormwater | New stormwater pipe and drain between Lower Queen Street and Waimea Estuary. Connects to upstream pipeline from Lower Queen Street residential development (C1060). | Cost | Contract awarded to Ching Contracting. Works started 23 April 2018. Small contingency for scope of work and risks. |
| 1127 | 2017 428 Lower Queen St Stormwater Earthworks | Earthworks contract for work covered under Project 1125 (new stormwater pipe and drain between Lower Queen Street and Waimea Estuary). | Cost | Contract awarded to Edridge Contracting. Works started 4 April 2018. Small contingency for scope of work and risks. |
| 950 | Kaiteriteri Water Treatment Plant Upgrade | Upgrade drinking water supply to meet NZ Drinking Water Standards | | Awarded to Process Flow. Construction of the treatment plant building is progressing well. The roof is on the building and pipes are being manufactured. Detailed design of the pipework and treatment process components is almost complete, with outputs from the HAZOP workshop integrated. |
| 967 | Richmond Queen Street Infrastructure | Replace services in Queen Street and reshape street. | | See commentary later in this report. |

Projects forecast to be carried over from 2017/18 financial year

| ID | Name | 2017/18 Budget (\$) | Carry-over | Commentary |
|------|---|---------------------|--------------------|--|
| | | | to 2018/19 FY (\$) | |
| 950 | Kaiteriteri Water Treatment Plant Upgrade | 1,606,331 | 76,647 | In construction with a final contract payment in the next financial year |
| 1000 | Kaiteriteri Replacement Wastewater Pipeline | 3,641,580 | 52,000 | In construction with a final payment in the next financial year |
| 1047 | Richmond Bateup Road Widening | 4,380,747 | 2,448,128 | A shortfall in funding delayed the start of construction |
| 1060 | Lower Queen Street Stormwater | 1,196,963 | 672,711 | In construction |
| | - Land purchase | | 1,413,000 | For construction |

| ID | Name | 2017/18 Budget (\$) | Carry-over | Commentary |
|---------------|--|---------------------|--------------------|--|
| | | | to 2018/19 FY (\$) | |
| 1106 | 2017 District-wide Closed Landfill Cap Renewals | 259,576 | 153,750 | Construction has been delayed to allow high priority recover work to be completed |
| 1125 | 2017 Lower Queen - Waimea Estuary Stormwater | 2,813,233 | 1,400,748 | Land agreements and final design delayed the start of construction |
| 1127 | 2017 428 Lower Queen Stormwater Earthworks | 425,390 | 185,000 | Land agreements and final design delayed the start of construction |
| 1019 | Wakefield New Water Treatment Plant | 467,160 | 170,000 | Additional water weather event data is required to confirm the basis of design |
| 1057 | Pohara Stormwater Improvements | 1,187,693 | 1,104,752 | An agreement on the proposed stormwater solution with several private land owners is required before a resource consent can be finalised |
| 1058 | Motueka New Water Treatment Plant | 1,743,906 | 1,543,000 | Water quality data is required to confirm the basis of design |
| 1120 | 2017 Mapua Stafford Drive-Aranui Road Water and Wastewater Upgrade | 760,000 | 425,700 | This project was not original programme for this financial year |
| Various | Other Projects | 22,972,401 | 1,937,955 | Minor projects |
| Totals | | 41,454,980 | 11,583,391 | |

| | |
|--|-------------------|
| Projects in construction | 6,401,984 |
| Projects in design with construction delayed | 3,243,452 |
| Other Projects | 1,937,955 |
| Total | 11,583,391 |

| | |
|--|-------------------|
| Overall Projects 2017/18 Budget | 41,454,980 |
| Breakdown: | |
| March YTD Spend | 16,285,307 |
| Spend in next three months | 12,465,222 |
| Carryovers | 11,583,391 |
| Forecast Underspend | 1,121,060 |
| Total | 41,454,980 |

Queen Street Upgrade

- 6.1 Queen Street in Richmond has been opened up to the Mall entrance. Three sections remain to be completed (see **Attachment 1**):
- The section from Pat's Plaza to the Warring carpark entrance is scheduled to be completed by 31 May 2018.
 - The section from the Warehouse to Salisbury Road is scheduled to be completed by 28 May 2018.
 - The final section from the Warring car park entrance to the Warehouse is scheduled to be complete by 18 June 2018.
- 6.2 The delays have been caused by a combination of difficulty in working around existing services, weather and the issue of eight work crews working in a tight space with limited access for trucks and equipment.
- 6.3 The contractor is working most nights, Saturdays and the occasional Sunday to meet these target dates.
- 6.4 There are no additional costs to the project as a result of these delays.

Headingly Lane Gravity Sewer Cost Over-run

- 6.5 Work is nearing completion on the Headingly Lane Gravity sewer project. Practical completion is close and minor defects are being resolved. The project budget was \$649,310.
- 6.6 Due to an incident causing a break in the main water supply pipe servicing Richmond in December 2017 which shut down the main water supply, repairs were undertaken on an emergency basis.
- 6.7 The projected cost-to-complete is \$780,000.

Funding of cost over run

- 6.8 Staff propose to fund the additional \$131,000 from savings in the following projects:

| Project | Amount |
|---|-----------|
| Lower Queen Street Sewer Pipelines | \$50,000 |
| Kaiteriteri Wastewater Pipeline Replacement | \$81,000 |
| Total reallocated funding | \$131,000 |

7 Utilities

Health and Safety Lead Indicators

(Audits/site observations) – 1 July 2017 to date

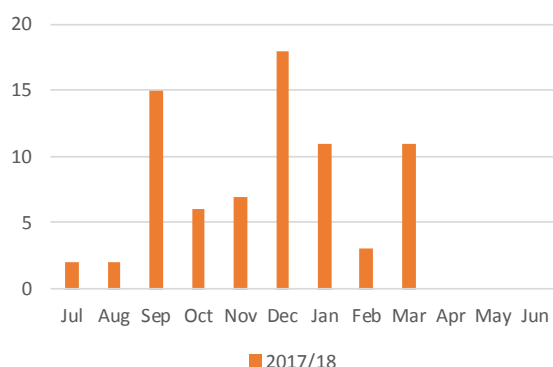
| Measure | Total |
|--|-------|
| H&S Risk Assessments | 0 |
| H&S Observations | 11 |
| H&S briefings (also as part of regular meetings) | 39 |
| Number of H&S courses attended by staff | 7 |

Customer Service Request Trends

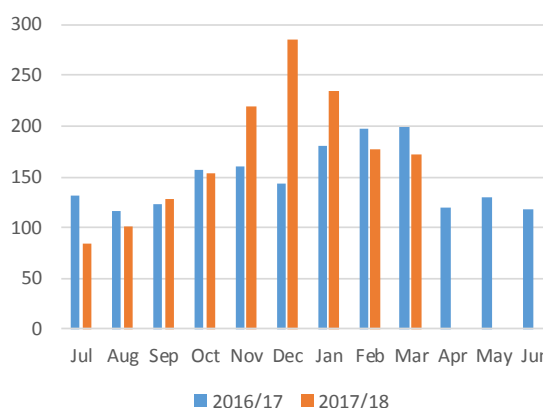
Water Supply

7.1 Water Supply service requests were up in March due to multiple requests for the same event eg, Dovedale leaks (seven requests) and Coastal Highway leaks (five requests).

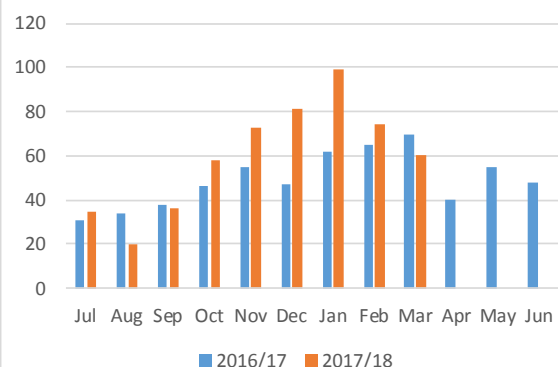
Outstanding Water Contractor Service Requests



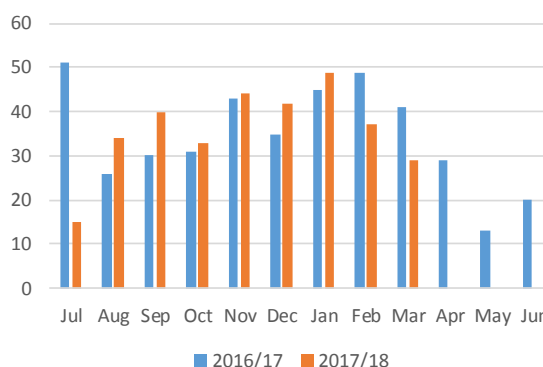
Water Contractor Service Requests

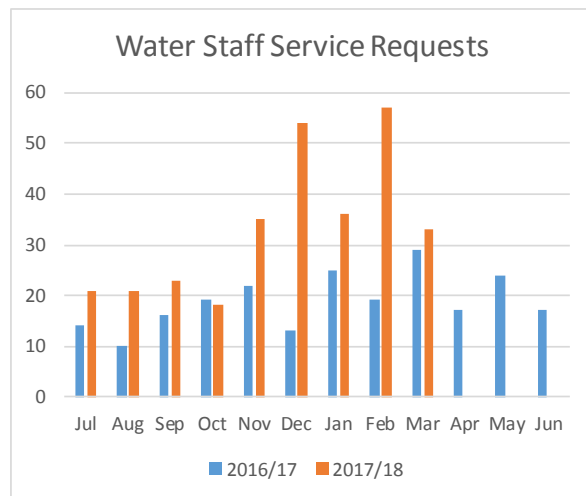
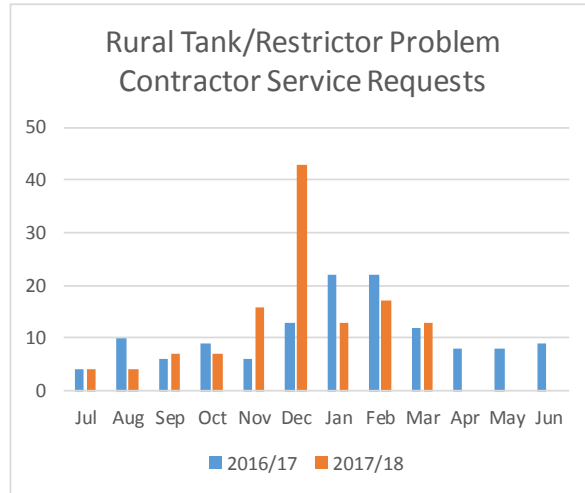
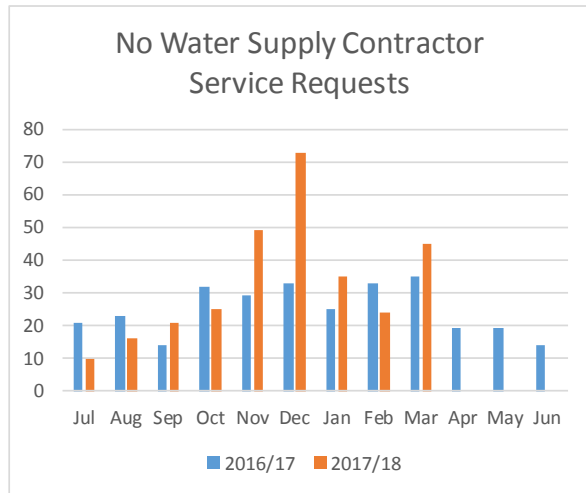


Leak - Water Pipe Contractor Service Requests



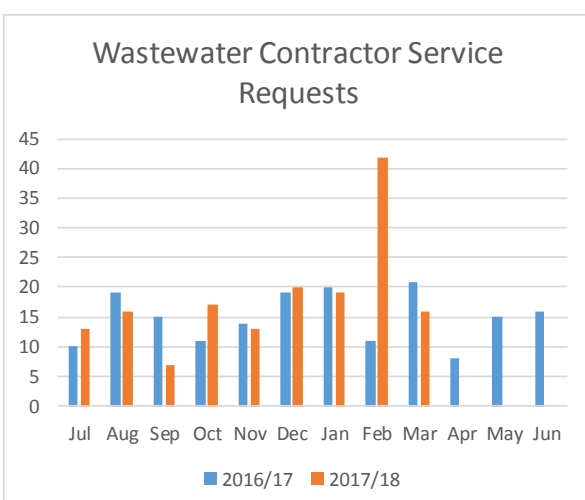
Leak / Fault / Repair- Meter Contractor Service Requests

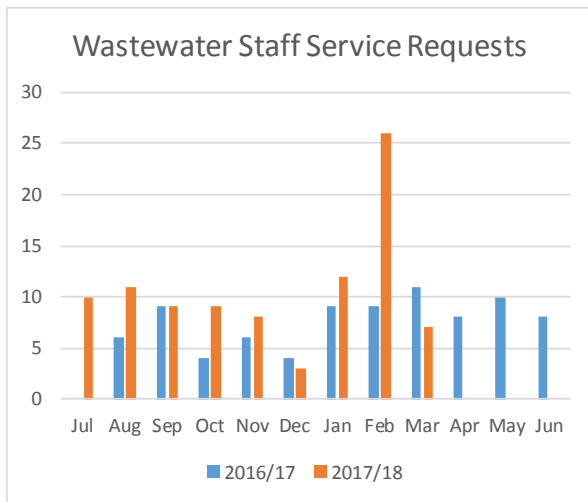




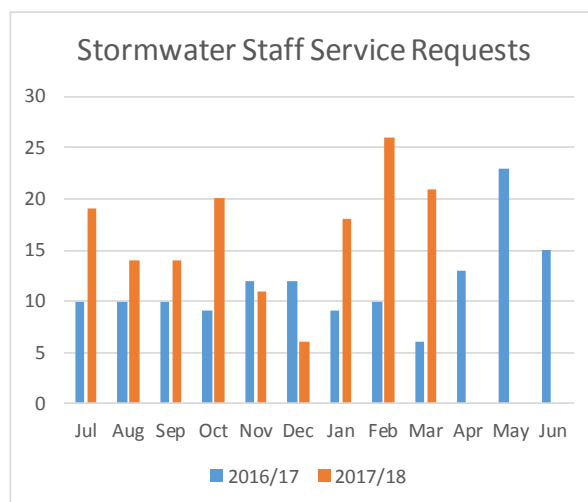
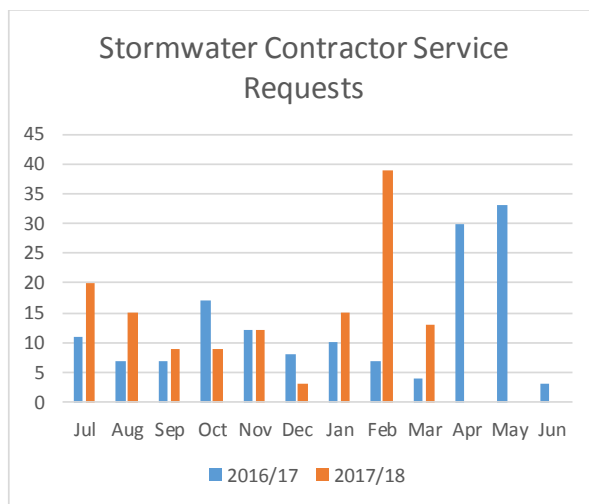
Wastewater

- 7.2 Service request numbers have returned to normal levels following the ex-Cyclone Fehi and ex-Cyclone Gita storm events in February.

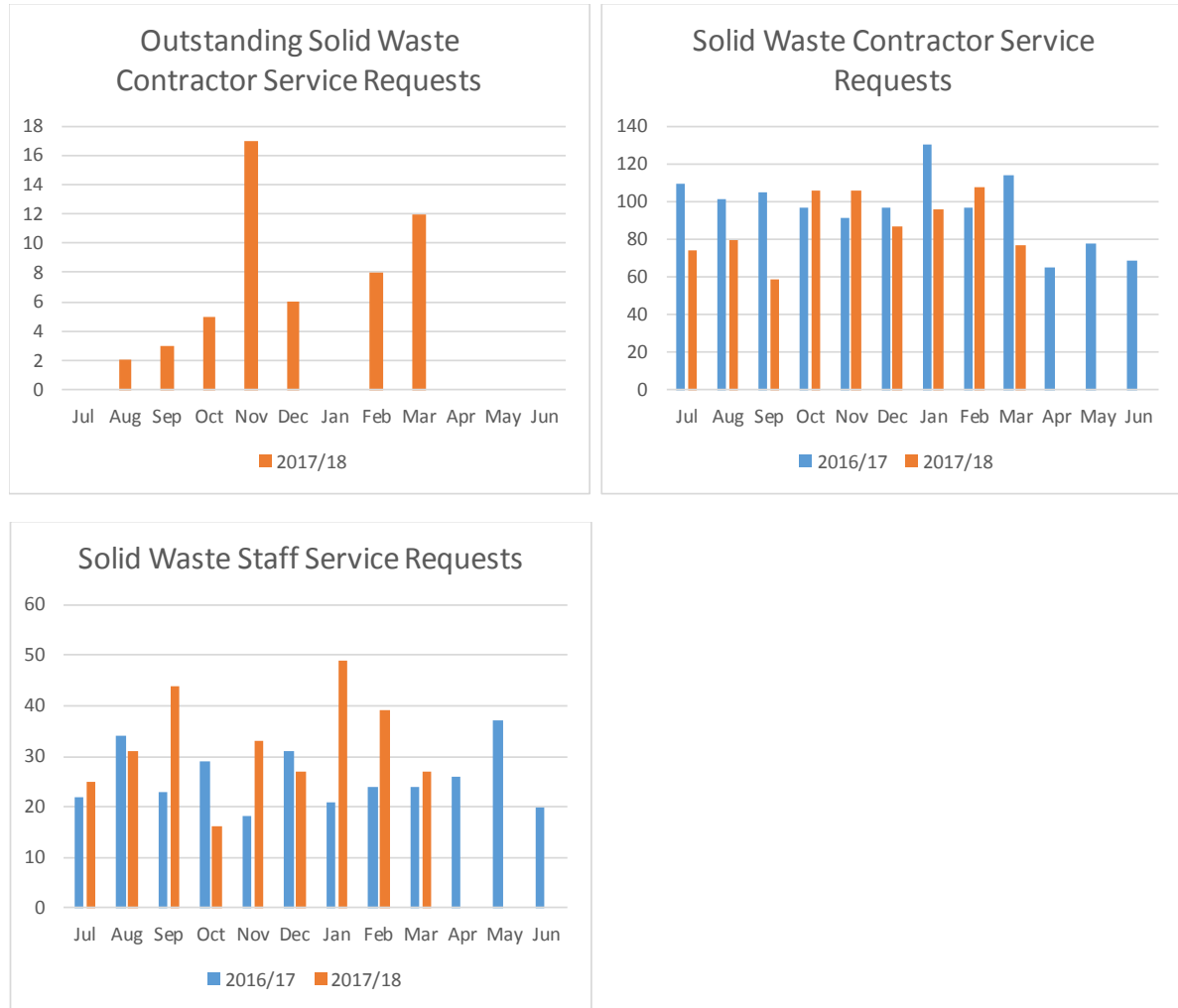




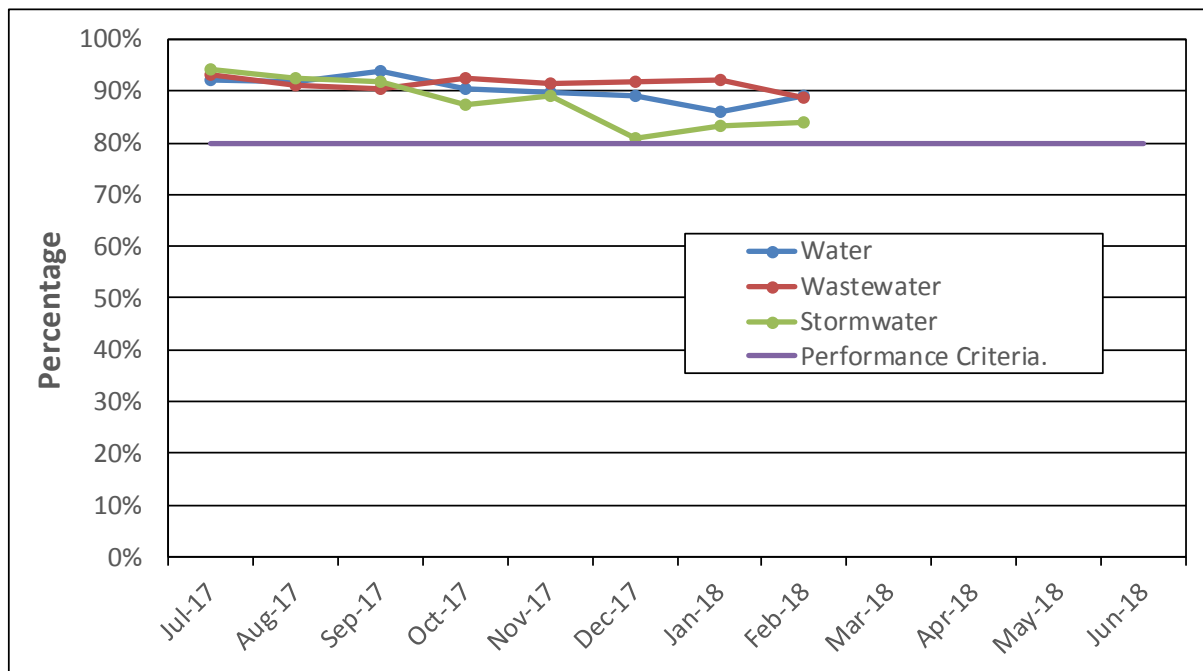
Stormwater



Solid Waste



Contractor Performance



Water Supply

Activity Highlights

- 7.3 Since the last report, another burst occurred on the Dovedale scheme between the Dove River crossings number 1 and 2. The contractor was required to do a lot of work on Dovedale to get water flowing properly again after the storm and a number of breaks in smaller lines also occurred. Other water supply schemes have been working well.
- 7.4 Following a rising main failure at the end of Headingly Lane, chlorine was added to the network for several days to mitigate the risk of contamination.

Operations Update:

- 7.5 There have been water supply main line bursts on Beach Road and Hill Street Richmond.



Beach Road



Hill Street

- 7.6 A large water main burst occurred on the Champion Road trunk main near the end of Headingly Lane on Thursday 19 April 2018. Supply was maintained to users through the day and chlorine turned on for three days as a precautionary measure.
- 7.7 A supply pipe on the Redwood scheme in Malling Road has been renewed and is now operational.
- 7.8 The SCADA/Telemetry system is now operating on the new platform.

Wastewater

Activity Highlights

- 7.9 Downer has recently filled two wastewater positions that have been vacant for a long time. Confirmation that Downer was the successful contractor for the new Waters Utilities Contract will have helped and they now have a full complement of operators.

Compliance

- 7.10 All the equipment that was damaged by the lightning strike at the St Arnaud WWTP the end of November 2017 has now been replaced and is operational.
- 7.11 The treated wastewater discharge from the Motueka WWTP is not achieving the total nitrogen consent limit. Council staff have been working to optimise the first step of the nitrification/denitrification process in the pond system and have been successful at converting ammonia to nitrate-nitrogen to achieve compliance with ammonia limits. However, the next stage of converting nitrate-nitrogen to nitrogen, which is released as nitrogen gases

to the atmosphere, has not been as successful as anticipated. Concentrations were trending downwards but it appears that the low oxygen zone in the base of the oxidation pond is not sufficient to enable the conversion process to occur consistently.

- 7.12 Staff are trialing recycling low oxygen pond-4 water back to pond-2 to improve the conversion process. However, the nitrification/denitrification process only occurs at temperatures greater than 14°C. Therefore, the results will not be apparent until next spring/summer and non-compliance will continue for some time.

Operations Update

- 7.13 Over the last few summers, intermittent high flows to the Tapawera Wastewater Treatment Plant have been observed. The high flows have been affecting the treatment process by washing beneficial bacteria out of the oxidation pond. This has caused the pond to come close to failing on several occasions this summer. Normal daily flows to the plant are around 50m³/day and on some days (with no rain), flows have been as high as 144m³/day. A review of property water usage strongly suggested the Tapawera Area School pool as the likely source. A letter was sent to the principal asking for confirmation and the acting principal has confirmed there are issues with the way the pool is operated. The acting principal has now set up a property committee to work with Council staff to find a long-term solution.
- 7.14 On 26 March 2018 during the routine weekly pump station pump down, the rising main failed at the Mapua Leisure Park. As the contractor was on-site the pumps were immediately isolated and a repair made. The overflow was minor and contained within the immediate area. The final stage of the pump station upgrade, which should help to reduce pipeline breaks, is due to be completed by the end of May 2018.

Stormwater

Activity Highlights

- 7.15 An intensive rainfall event occurred in Richmond on 22 March 2018 and the stormwater system coped well with few complaints received. The Annual Exceedance Probability (AEP) for the 15 minute storm event was 5% (also referred to as a 1-in-20 year rain event).
- 7.16 The Motueka tidal control gates were operated in storm mode on 23 and 24 March 2018.

Operations Update

- 7.17 A chamber on the corner of Old Wharf Road and Motueka Quay has been lifted up a half block to help prevent seawater overflowing into properties during spring high tides.



7.18 A hinge on the old concrete floodgate at the end of Old Wharf Rd had broken and the flood gate was replaced.



Solid Waste

Activity Highlights

- 7.19 Reopening of SH60 over the Takaka Hill 24/7 has allowed kerbside collections and bulk transport operations to return to normal. Two failures of the Takaka waste compactor in the period has resulted in disruption to services. With restrictions on sale of recyclable material to China our contractor is needing to stockpile processed recyclable materials and is receiving lower prices for product.

Compliance

- 7.20 On 24 March 2018 the septic tank at the Mariri Resource Recovery Centre overflowed to the stormwater network during a heavy rainfall event. The tank is due to be replaced with an upgraded treatment and disposal field this financial year.

Operations Update

- 7.21 Kerbside recycling collections have continued to be busy and the collections contractor has been performing well. Access issues over the Takaka Hill continued until after Easter and for over a month our contractor's staff and owner drivers have been travelling to Takaka on Sunday evening to ensure Golden Bay collections could be completed on a Monday. This was no longer required after April 6, when the road opened without restrictions.
- 7.22 Over the last month Smart Environmental has been optimising kerbside collections and has exchanged one "tri-combi" truck with a "bi-combi" truck from the North Island. This change has improved collection times but has meant that some residents will have noticed a change in collections times. We are also discussing some minor changes to collection days for a small number of residents to relieve pressure on Monday (Golden Bay – Riwaka) and Wednesday (Mapua – Moutere). Residents will be notified well in advance if collection days change.
- 7.23 We are continuing to monitor the effect of restrictions on recycling exports into China. Commodity prices remain low and some products (especially mixed plastics) are difficult to sell. At this stage we expect that the Council may be required to contribute towards a shortfall in revenue this year, and that there may be a minor impact on recycling budgets. We will continue to monitor revenues and work with our contractor to keep contamination low to maximise the value of the recyclables.
- 7.24 There have been two breakdowns of the waste compactor in Takaka over the past month. This has resulted in delays to some customers and the need to haul waste in open top bins. The compactor is due for replacement in 2018-19 as part of the Takaka Resource Recovery Centre upgrade.
- 7.25 Waste volumes through Resource Recovery Centres to the end of March are level with the same period of last year, while greenwaste volumes are growing.
- 7.26 The joint waste working party continues to meet to review the Nelson Tasman joint waste management and minimisation plan. Proposed changes to the plan to date include a focus on waste avoidance and the role of all members of the community to work towards waste reduction. We expect to have a draft document ready in late May.

8 Transportation

General

- 8.1 On 1 May 2018, NZTA provided the Council with the indicative investment level for the subsidised road maintenance and renewals programme for 2018-2021. The following table describes the funding request and NZTA's indicative funding approval.

| Activity class | Programme requested total (Gross \$) | Programme with indicative funding approval (Gross \$) |
|------------------------------|---|--|
| Local roads maintenance | \$35,752,000 | \$34,464,000 |
| | \$399,111 (special purpose roading) | \$398,300 (special purpose roading) |
| Road safety promotion | \$663,000 | \$550,000 |
| Public transport services | \$540,000 | \$540,000 |

- 8.2 Feedback from NZTA on why the approval was less than our request noted the existing good condition of our sealed road network (relative to other districts' networks), and the overall increase in requested funding around the country which exceeded the total available budget. Our funding request would have returned our sealed pavement budgets to 'normal' investment levels, from what is currently a 'low' or 'constrained' investment level.
- 8.3 We have assessed the impact of continuing 'low' funding for sealed pavements through DTIMs modelling which is current best practice in New Zealand. Modelling shows that it should have limited impact in the short term (2018-2021) although sustained 'low' funding would cause the overall network condition to worsen over time and there is a need to return to 'normal' investment within the next 10 years.
- 8.4 Over the three financial years 2018-2021 there is approximately \$637,000 of local share (loan-funded renewals) that will not be spent in the road maintenance and renewals programme. Staff are assessing the effect on the LTP budgets and opportunities for re-allocating this budget within the roading activity. One possible opportunity would be to increase the new footpaths budget.
- 8.5 NZTA have also announced an opportunity of subsidy for footpath maintenance. Staff will be submitting a request for funding of our footpath maintenance and renewals programme during May.

Urban Roding Network

- 8.6 Downer has programmed the replacement of kerb and channel along various existing sections in Florence Street, Herbert Street and Elizabeth Street. This work will extend through to June. The work was delayed due to resourcing required to recover from the cyclone events.
- 8.7 Road pavement repairs and pre-reseal remedial work is continuing for next year's resealing programme (2018/2019).

- 8.8 In Sundial Square, additional legs will be installed to the cantilevered bench seats in late April/early May. The installation of the legs has been delayed due to the need for the legs to be galvanized.
- 8.9 Urban spraying and mowing will continue in April/May as well as sump cleaning and more frequent street sweeping will be taking place due to the autumn leaf fall.

Streetlighting

- 8.10 An audit of streetlight outages across the District is currently underway.
- 8.11 The Waimea West Road street light upgrade is on schedule for completion in May.

Mapua Safety Improvements

- 8.12 The Higgs Road footpath/intersection improvement at Aranui Road and installation of a pedestrian facility on Mapua Drive are now completed.

Seaton Valley Road Path

- 8.13 Construction of the Seaton Valley Road path is due to start in May.

High Street Undergrounding (Motueka)

- 8.14 This work has started and should be completed later this year.

Footpaths

| Location, ie Road | Between | Length | Comments |
|---|---|---|--|
| New Footpaths | | | |
| Wallace Street Motueka – North side | Wilkinson Street to bus stop | 105 metres, part concrete and part gravel due to location of trees | Completed. Motueka Community Board and Transportation funding |
| Courtney Street Motueka – southern side | High Street to Jack Inglis Hospital | 167 metres, concrete path | Completed. Motueka Community Board and Transportation funding |
| Higgs Road Path | Mapua Drive to Lionel Place | 650 metres, concrete path | Completed. Minor improvements programme |
| Seaton Valley Path | Les Wakefield Road to near Dawson Road | Approximately 1.8 km, gravel path | Starting shortly. Minor improvements programme |
| Bateup Road | Gladstone Road to Wensley Road | | Underway. New footpaths budget. |
| Footpath Rehabs | | | |

| Location, ie Road | Between | Length | Comments |
|---|---|--------|--|
| High Street, Motueka – west side footpath | Poole Street to end of path north of Fearon Street | | Underway in conjunction with UFB project and cost- shared between Network Tasman and the Council. |
| Win Place, southern side | From Middlebank Drive to cul-de-sac | | Completed |
| Florence Street, Richmond | Linden Court to Elizabeth Street, both sides | | Work underway shortly |
| Herbert Street, Richmond – eastern side | From Florence Street to D'Arcy Street | | Work started |
| Elizabeth Street, Richmond | Various sections between Talbot and Florence Streets | | Some work completed, other work starting shortly |
| D'Arcy Street, northern side | From Salisbury Road back to Herbert Street and various other isolated sections | | In association with water main upgrade |
| Waverley Street, Richmond | Gladstone Road back to School on both sides | | Completed |
| Churchill Avenue, Richmond | Various sections both sides | | Completed |
| Lower Queen Street, southern side | Along frontage of Medical Centre to 363 Lower Queen Street | | Completed |
| New Footpaths, Designed and Estimated | | | |
| Hill Street, Richmond | Hart Road to Faraday Rise | | New footpaths budget beyond 2019/2020 |
| Kaiteriteri Sandy Bay Road, Kaiteriteri | Camp to past boat ramp on inland side | | New footpaths budget beyond 2019/2020 |
| Old Wharf Road, Motueka | Near Thorp Street to Trewavas Street | | New footpaths budget beyond 2019/2020 |

| Location, ie Road | Between | Length | Comments |
|----------------------|---|--------|---------------------------------------|
| Main Road, St Arnaud | Kerr Bay Road in a westerly direction along frontages | | New footpaths budget beyond 2019/2020 |

Rural Road Maintenance

- 8.15 The contractor is entering the final recovery phase of the ex-Cyclone Gita and Fehi events. There are a number of sites that still require extensive work to bring them back to “as was”, but all areas are now accessible to general traffic. Downer staff are on target to complete all works before the end of the 2017/2018 works period.
- 8.16 A number of crews have returned to ‘business as usual’ and will be working hard to catch up on routine maintenance and remedial programmes that were adversely affected by the urgent response to the extreme weather events.
- 8.17 Downer staff have also re-established at Ruby Bay to finish the rock armouring (revetment) work.
- 8.18 Maintenance metal placed on unsealed roads this month has primarily been in the Tapawera area.
- 8.19 The contractor is in the middle of the third (horizontal) mowing round, with the vertical cut getting underway shortly to deal with vegetation that is affecting sight distance or striking high-sided vehicles.
- 8.20 The contractor has partially completed the spraying in the rural areas to date and will be refocusing on this in May following the road side reinstatement after the extreme events.

Golden Bay Road Maintenance

- 8.21 Work has primarily been focused on the completion of repairs to damage caused during the cyclonic storm events of the last few months.
- 8.22 Work is currently underway on key items such as the Takaka River Bridge approach reinstatement and various under slip sites which are being repaired using a mixture of stacked rock and bioengineered solutions such as willow walls.
- 8.23 Other work underway includes unsealed metalling and drainage maintenance around various parts of the network.
- 8.24 The Kaituna Bridge repair is being completed as a variation through the Structural Components Replacement contract (Tasman Civil Ltd).
- 8.25 Options for Carters Bridge are currently being reviewed. Recommendations at this point are that the bridge is not salvageable and should be replaced. This is estimated to cost \$300,000.

Murchison Road Maintenance

- 8.26 Minor weather events in March and April affected some parts of the Murchison network, including Howard Valley Road, Baigent Road and Maruia West Bank Road.
- 8.27 Work is also underway to improve drainage near the beginning of Grey Street in Murchison which has a known history of surface flooding. The soak pits in this location are no longer functioning and so a new and upgraded system is being installed.

Road Safety

- 8.28 A meeting is planned with schools in the Salisbury Road area, the NZ Police and the Ministry of Education after some schools raised concerns about driver behavior and student safety at the zebra crossings on Salisbury Road. Electronic warning signs which were already planned, are to be installed this month on Salisbury Road and William Street.
- 8.29 New 40km/h school advisory speed signs and a painted turning bay are planned for installation at Tasman School on Aporo Road.

Rivers Activity Update**Physical Works Progress (X&Y rated river sections)**

- 8.30 Expenditure for maintenance Contract 1064 with Taylors Contracting Ltd for the X and Y rated rivers for the current financial year is \$1,460,000 (including reporting costs).
- 8.31 Another heavy rain event on the morning of Saturday 24 March 2018 (150mm over 12 hours but with hourly totals reaching 30mm or more) hit the Moutere and Dove catchments, causing some additional erosion and damage to already identified sites which has resulted in some re-inspections.
- 8.32 Rockwork associated with three bridges in Dovedale and the Holdaway Road ford in the Moutere has been completed, with a strong focus on completing rockwork in the Takaka River. Work is also being carried out on several of the properties in the Waingaro.
- 8.33 Rockwork and channel improvements at one site on the Dove River were completed, along with fairway spraying in the Motupiko and Sherry rivers.
- 8.34 The second round of stopbank mowing for the season is underway in the Waimea.
- 8.35 Release spraying of planting sites and mulching and spraying to prepare for 2018 and 2019 planting sites has continued. Sourcing of additional willow poles for this season is underway.

River Z (Z rated river sections)

- 8.36 Requests for inspections have slowed to several a week over the last fortnight, with a spike following the cyclone events.
- 8.37 Work in the rivers with Council oversight has begun in the Shaggery, Brooklyn and the Moutere to clear channels and undertake bank protection.
- 8.38 The majority of landowners in Golden Bay affected by the February events have now been visited.
- 8.39 We have begun to put together work packages for particular catchments or areas but are limited by the scarcity of suitable and available contractors. Efforts to encourage our river maintenance contractor to resource up including hiring in of machinery and subcontracting work are being made.

Other Work

- 8.40 We are working through a new arrangement for the quarry area leased by Downer on the Waimea River at the end of Bartlett Road. This is to allow cyclist and pedestrian access along the river to one side of the quarry site, safely separating the activities.
- 8.41 We are supervising a postgraduate student who will undertake flood risk assessment work in the lower Wai-iti catchment, specifically looking at the effects of undocumented embankments.

- 8.42 A morphological assessment of several of our main rivers, as per the monitoring requirement in our global riverworks consent, is underway.
- 8.43 The Waimea Aggregate Users Association has requested more gravel from the river, we are currently collecting more information before making a decision.
- 8.44 More gravel has been requested from the Lower Motueka also, but we have already allocated most of the 2005-2016 build-up so contractors will need to go further afield.

Coastal

Marahau Rock Revetment

- 8.45 No further sand replenishment at the northern end of the existing rock revetment has been undertaken since August 2017.
- 8.46 There has been no feedback from the Wakatu Incorporation Board as to what direction they support for the future protection of this area.
- 8.47 We have nothing to update the Marahau Sandy Bay Residents Association (MSBRRA) regarding future protection of this area.
- 8.48 Apart from some scouring of the footpath behind the main Revetment Wall there was no other damage caused by ex-cyclone Fehi on 1 February 2018.

Ruby Bay

- 8.49 The seawall that is maintained by the Council from 50 metres north of Tait Street through to the Talleys wall to the south, an approximate distance of 1100 metres, was overtopped from the ex-Cyclone events.
- 8.50 The most damage occurred along the section of wall between Tait Street through to the Chaytor Reserve. This section of revetment has been repaired using approximately 600 tonnes of additional rock.
- 8.51 The revetment from Chaytor Reserve through to the Talleys seawall has had some repairs to the back landward of the wall which has scoured out in places from overtopping of wall. This work is in progress with 132 tonnes of rock placed to date.
- 8.52 A survey was due to be completed on 1 February 2018 but ex-Cyclone Fehi delayed this and it will be undertaken at the conclusion of the storm damage repairs to the revetment walls.
- 8.53 Other storm damage repairs along Ruby Bay on private property is being dealt with by Environment and Planning Department staff.

Collingwood

- 8.54 There has been some minor damage to the top of the revetment along Beach Road at Collingwood. This work will be coordinated with the river maintenance work programmed for the Aorere River in March 2019.

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|----------------------|
| 9 Attachments |
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- 1. Queen Street Upgrade - Work Stages

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