

Memorandum

16 April 2019

To:	Māngere-Ōtāhuhu Local Board
CC:	Rina Tagore – Relationship Manager, Daniel Poe – Senior Local Board Advisor, Riya Seth – Local Board Advisor
Subject:	Progress update on marae water sensitive design (formally known as restoring mauri to the Oruarangi Creek and Tararata Creek)
From:	Madison Little – Relationship Advisor, Infrastructure and Environmental Services

Purpose

1. To update the Māngere-Ōtāhuhu Local Board on the progress of the marae water sensitive design project being delivered as part of the board's 2018/2019 local environment work programme.
2. To seek endorsement of the recommendation that the unspent budget of \$15,000 from this financial year is used to begin the implementation of preferred water projects identified in the reports produced as part of the marae sensitive design project.

Summary

- *In June 2018 the Māngere-Ōtāhuhu Local Board allocated \$24,000 towards a marae water sensitive design project (resolution MO/2018/98). This project supports the Makaurau and Papatūānuku Kōkiri marae in planting of native species at their sites, as well as scoping opportunities for the retrofit of water-sensitive designs. The water sensitive designs aid in restoring mauri to the creeks as better stormwater management onsite will mean less water discharges in to each creek.*
- *Initial hui with Makaurau and Papatūānuku Kōkiri Marae were held in quarter two with experts in water sensitive design. A site walk over was also held where options for improvements related to water sensitive design were discussed with each marae.*
- *In quarter one, 64 plants were planted at Papatūānuku Kōkiri Marae and 132 plants at Makaurau Marae. This planting was delivered with funding from both the local board, and the Mayor's Million Trees planting programme.*
- *Options reports of water projects to be implemented at the marae have been completed and provided to both marae for review. Follow-up hui took place in April 2019 with both marae and preferred options were selected for each site. This project is now complete and there is an unspent budget of \$15,500 due to using healthy waters design experts to produce the reports rather than external consultants.*
- *At a workshop in March 2019, the Māngere-Ōtāhuhu Local Board provided support in principle for the continuation of this project in the 2019/2020 financial year to implement the preferred water project option at each marae.*
- *Staff recommend that the unspent budget from this financial year is used to begin the implementation of preferred water projects identified in the reports. This will not affect the delivery of this project as proposed in the board's draft 2019/2020 local environment work programme.*
- *Feedback on this recommendation is sought from local board members by 4.00pm Friday 26 April 2019. If no feedback is received in opposition of the recommendation by this date, staff will proceed with using unspent budget to begin delivering the preferred water projects at each marae.*

- *Any queries or feedback regarding this project can be directed to Madison Little – Relationship Advisor at Madison.little@aucklandcouncil.govt.nz.*

Context

3. In June 2018, the Māngere-Ōtāhuhu Local Board allocated \$24,000 towards a project to restore the mauri of Oruarangi Creek and Tararata Creek, as part of its 2018/2019 local environment work programme (resolution MO/2018/98).
4. This project supports the community at Makaurau Marae and Papatūānuku Kōkiri Marae with making water improvements on or near their sites. This contributes to restoring the mauri of the creeks as Makaurau and Papatūānuku Kōkiri marae's stormwater discharges in to Oruarangi and Tararata respectively. The project also involved planting tohu (indicator) native plants at each marae.
5. Since June 2018, Healthy Waters staff have worked with Makaurau and Papatūānuku Kōkiri marae to develop water sensitive design at each marae. These designs will contribute towards water quality improvements as the amount of stormwater leaving the site will reduce and less water will be needed from the mains system to supply the marae when installed.
6. The options reports prepared for each marae have identified that both have existing rain tanks located on their sites which are not being used. At a hui with Makaurau Marae in April 2019, the preferred option chosen was to connect the existing rain tank to supply water to the toilet block on site, and also to the nursery to water the native plants that are grown on site.
7. At a hui with Papatūānuku Kōkiri Marae in April 2019, the preferred option chosen was to connect to the existing water tank to be used in the market garden area and water the vegetables being grown on site.
8. The project for the 2018/2019 financial year has been completed ahead of time with the provision of these options reports, however an underspend of \$15,500 has been identified. The total cost of the project was lower than forecasted as Healthy Waters experts provided advice on water sensitive design options for each of the marae rather than using external consultants.
9. Staff recommend that the remaining budget is used to implement the preferred options before the end of this financial year.

Discussion

10. At Makaurau Marae it is recommended that \$7,500 is spent on the installation of a pump at the existing rainwater tank. The pump will have an automated and manual top-up system from the mains water to supply non-potable water and mains water to the toilet block and the irrigation system used for the nursery.
11. At Papatūānuku Kōkiri Marae it is recommended that \$8,000 is spent on the installation of a pump at the existing rainwater tank with associated piping and irrigation to be used on the garden that is located on site.
12. The benefits of utilising rain water on both sites are that stormwater management is minimised, and there will be less rain water discharging into the environment. There is also less water take required as the marae will be able to use rain water for their activities which would otherwise have had no use. This improves the mauri of the waterways and is contributing to the marae becoming more self-sustainable.

13. If the implementation of the preferred options is supported by the local board, this work will be undertaken during quarter four and will be completed by the end of the financial year.
14. If these actions are supported by the local board, the project during the next financial year will focus on the implementation of further projects at each marae. Activities proposed for 2019/2020 include the installation of a second rain tank and rain chains (an alternative to a downpipe which makes a water feature out of rainwater to a drain) at Papatūānuku Kōkiri Marae, and the installation of a rain garden within the re-designed carpark at Makaurau Marae. The project budget sought will remain at \$24,000 for Makaurau Marae, but will be reduced to \$10,000 for Papatūānuku Kōkiri Marae.
15. Due to the limited amount of time remaining in the financial year and lack of other feasible options for budget use, if the local board does not support the recommendation to begin implementing preferred projects at each marae, the budget will be given up as savings.

Next steps

16. Local board feedback on the recommendation to proceed with implementing preferred options for water sensitive design is sought by 4.00pm on Friday 26 April 2019.
17. This feedback is sought via email, if the board is in support the project manager will proceed with implementing the projects at each marae and a resolution formally endorsing the approach will be sought at the board's May 2019 business meeting.
18. If the local board supports the recommendation to begin implementing preferred projects at each marae, these projects will be completed before the end of the 2018/2019 financial year. Updates on the delivery of these projects will be reported to the local board through the Infrastructure and Environmental Services contribution towards the board's quarterly performance updates.
19. Any queries regarding this project ahead of the feedback deadline can be directed to Madison Little – Relationship Advisor at Madison.little@aucklandcouncil.govt.nz.