

Water Challenge

Activity 4.2: **First flow**

Send some wai on its first journey Rōpū, get ready to flow! through your pipe prototype. Let's see whether your prototype has what it takes to solve your challenge scenario, or if there are any ways Step 1 it could be improved. Label your containers with your two hapori connection points. Eg school and hospital or whare and fire station. Place them You'll need: underneath your wai network. Your pipe prototype Step 2 • 500ml of wai (use the rainwater you collected in module 2) Open the tap and double check all • 2 x containers that can hold connections so 500ml of wai your prototype Measuring jug won't spring a leak. Step 3 500ml of wai with a measuring jug. Step 5 Step 4 Step 6 Measure the amount Slowly pour the wai into of wai (ml) that ends Write your results your water reservoir and up at each hapori in the test tracker. watch it flow! connection point. Test tracker Quantitative data **Qualitative data** Wai supply (% and ml) **Improvements** What did you observe as the wai flowed? Hapori connection point 1 Hapori connection point 2 Swap large internal diameter pipes for small internal diameter Water flowed too quickly to the fire 95% Fire station: 30% Whare:65% station. Some got trapped at the 150ml 325ml 475ml start of the network. pipes leading to the fire station.

Analysis

What did you learn from your test?	What changes could you make to improve your prototype?
Don't waste the wai you send through your network! You	
through your r can add the sa network in late	ame wai to your