### caring about you & your environment

File No.: B/18/2/1

30 November 1999

Mr Gary O'Meara Water Supply Manager Hutt City Council Private Bag 3 1-9 12 Lower Hutt

Dear Gary

### **Petone Water Supply**

Thank you for your letter advising the results of surveying Petone residents about whether or not their water supply should be fluoridated.

Further information was promised by the Wellington Regional Council as part of the decision making process. We have now completed the following:

- A detailed preliminary budget for changes to the wholesale water supply system so Petone could be supplied with unfluoridated water. The maximum estimated capital cost is \$410,000 which includes a contingency sum of 15 percent. The total is less than the \$550,000 initially suggested. This was based on no more than a concept.
  - If the work proceeds then it is possible that a liquid form of fluoride, rather than a powder form, may be used at Gear Island. This would reduce the capital costs by \$30,000. There are other factors to consider and these have not been fully explored at this stage. Out of interest, I have attached the draft process and instrumentation diagrams for the changes at Waterloo and Gear Island.
- Consultants have provided a budget price of \$3,000 for applying for a variation to the Gear Island resource consent. Costs associated with processing the application and a hearing are additional.

We have been asked to comment on the difference in operating costs by closing Buick Street and supplying Petone water from the Waterloo water treatment plant. An attachment provides the details.

As far as I am aware this completes the process of providing outstanding information to Hutt City Council.

Yours sincerely

M D KENNEDY

Strategy and Assets Manager

Copies to:

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Group Manager, Utilities Policy

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Encl.



# Operational Changes

- 1. Petone water supplied from Waterloo Water Treatment Plant (WTP) instead of Buick Street Pumping Station.
- 2. Petone is provided with unfluoridated water, if requested by Hutt City and agreement is reached on funding the capital works.

#### Buick Street Costs 1998/99

• Recorded optional costs for 1998/99; \$69,215 These costs will not be incurred once Buick Street was closed.

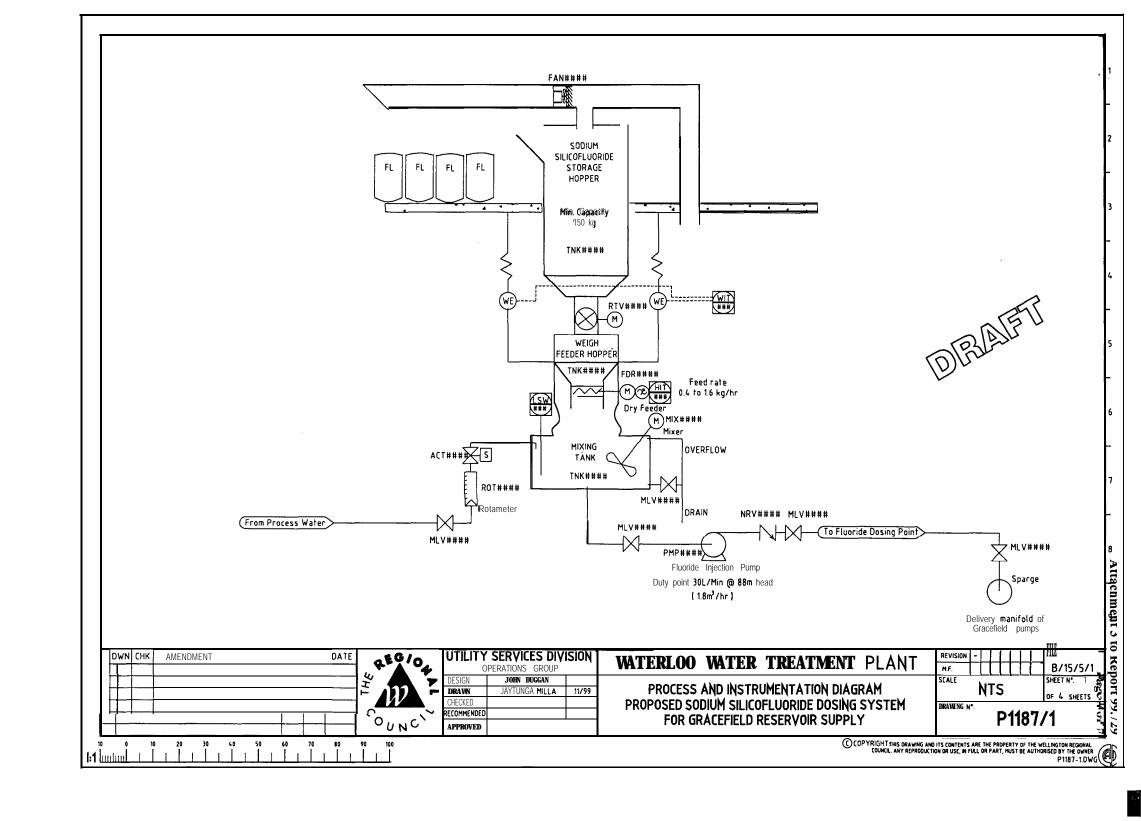
# Waterloo Water Treatment Plant to Supply Petone (Rahui Resevoir)

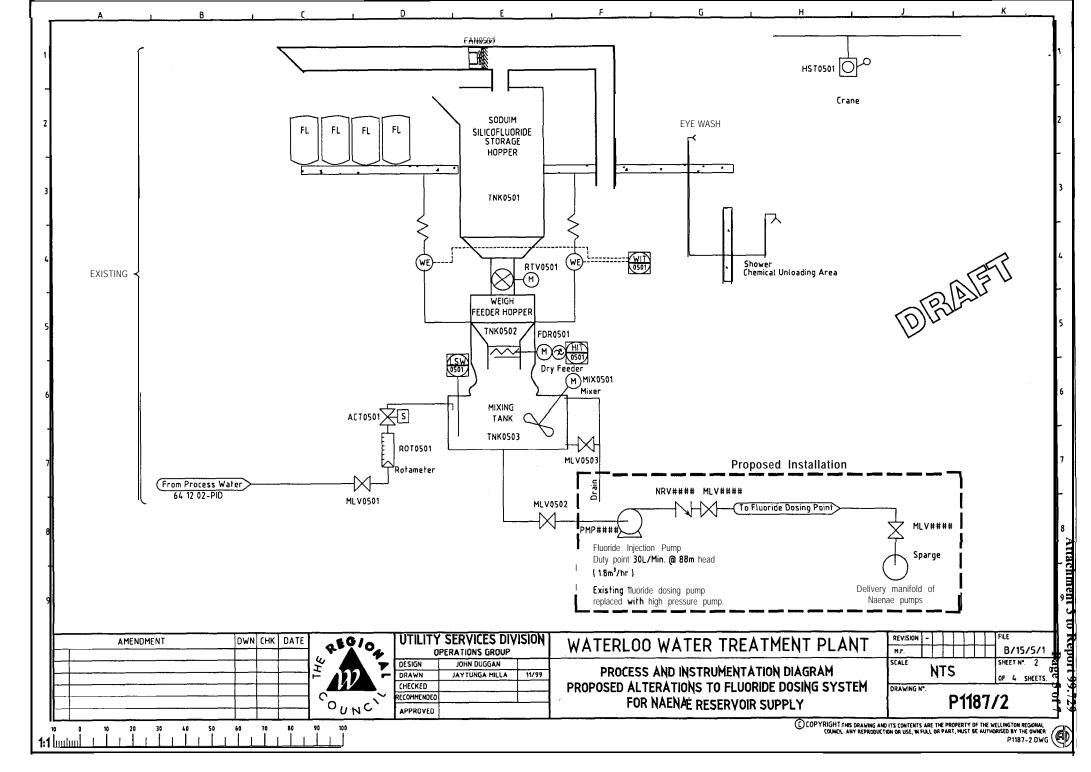
•	Energy costs as per Buick Street (network costs are avoided)	\$19,000
•	Additional energy to pump to new Rahui reservoir 20m higher than old reservoir	\$6,200
•	Allowance for marginal pump maintenance at Waterloo WTP	\$1,000
•	Allowance for maintaining Wellington Regional Council main along Petone foreshore	\$10,000
		\$36,200
	Saving from closing Buick Street	\$33,000

#### Fluoridation

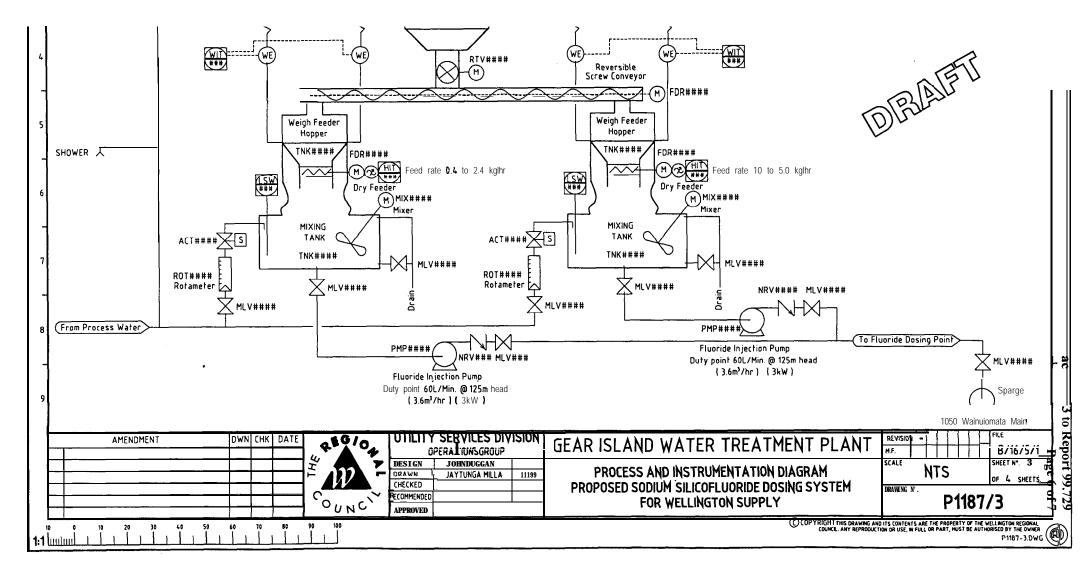
Costs if Petone is supplied with unfluoridated water

•	Maintenance and operation of new fluoridation equipment at Waterloo and Gear Island WTP	\$10,000
•	Depreciation	\$12,000
<b>A</b>	and assisted from alsoine Decide Charact and associdine Detector	\$22,000
Annual saving from closing Buick Street and providing Petone with unfluoridated water		\$11,000





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