

cost within due limit to your city, I propose to supply the city of Hamilton *en passant*, leaving a service reservoir at that place wholly independant of the continuation pipe to Toronto, where of course there would be a distributing reservoir of suitable capacity.

Looking at the present requirements of the two cities, and their probable rate of increase for some years to come, I regard it as essential that (if even at an outlay beyond what may possibly be anticipated) *the supply should be abundant for all purposes*, for it must be remembered, that the demand for private and domestic uses will be amongst the least that such works will have to meet, and that as far as mere quantity is concerned, more water will be needed for the various public purposes of flushing sewers, cleansing and watering streets, the extinction of fires, supply of fountains and public baths and wash-houses, than for household purposes. I propose, therefore, to have the supply pipe from Port Dover to Hamilton of not less than 12 inches internal diameter and the one forward to Toronto of not less than 9 inches. If these pipes are of cast iron, I estimate that the cost of the work might be taken (as an approximation) thus, say

40 miles of 12 inch pipes, and laying from Hamilton to Port Dover at £3000 per mile.....	£120,000
Works on the lake shore at Port Dover.....	5,000
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	£125,000
Toronto proportion of above sum.....	£60,000
40 miles 9 inch pipe and laying from Hamilton to Toronto at £2000 per mile.....	80,000
Service reservoir, &c., &c., at Toronto.....	10,000
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	£150,000

This is assuming cast iron pipes to be used, but I am of opinion from some experience that throughout the greater proportion of the distance well manufactured earthenware pipes of suitable stoutness, could be substituted safely for iron if properly laid and secured at the joints, in a manner that I