

6. High Level—

The Ferguson Avenue Re-pumping Station has a pumping capacity of 700,000 gallons per 24 hours, with storage of 400,000 gallons in the reservoir above.

This system has been taxed to its limit this season, and there is no reserve plant.

The compressed air lift at Wentworth street is said to have a nominal capacity of 65 gallons per minute, or about 93,000 gallons per day. This small system has also been taxed to its limit of capacity.

7. Distribution—

The following schedule gives the lengths of mains of different sizes:

30 inch	3.68 miles, or 7.80 per cent. of total		
24 inch	0.38 "	0.29 "	"
20 inch	9.64 "	7.34 "	"
18 inch	6.16 "	9.64 "	"
16 inch	1.40 "	1.07 "	"
12 inch	9.91 "	7.55 "	"
10 inch	1.74 "	1.33 "	"
8 inch	0.96 "	0.73 "	"
6 inch	90.32 "	68.79 "	"
4 inch	7.10 "	5.41 "	"
Total.	131.29 miles		

Total number gate valves	931
" " fire hydrants	1,335
" " water services	19,772
" " meters	350
Percentage services metered	1.77

New Works—

The original system was among the earliest municipal works in the Province, antedating the Toronto works by about fifteen years.

The original system was outgrown in a few years, the enlarged system, as it exists to-day, cannot be considered as equal to the demands upon it, and there is practically no reserve for fire protection in case of accident to works in connection with the supply, a burst in force main, or breakdown in pumping machinery.

We consider the following new works should be provided, the relative importance being in the order given:

1. New intake from Basin to Lake Ontario.
2. Complete new High Level Pumping Station.
3. Additional machinery at Beach Pumping Station.
4. An additional force main from Beach Station to centre of City.
5. Several submains throughout the City.
6. An additional conduit from Basin to Beach Station.
7. Storage reservoirs.