

FINAL REPORT MADE ON WATER

CITY'S EXPERT GIVES
OFFICIAL STATEMENT

A. Adams on Present Standing of the City's Water Situation.

Arthur L. Adams, the water expert under whose supervision all the large improvement work on the present system has been undertaken, has submitted to the city council his final report, the same being based on conclusions formed after a thorough inspection of all the plant. Mr. Adams points out that time will be required to demonstrate the value and practicability of the new system, which, owing to the alteration in the manner of distribution and sale of water, which obtained hitherto, may be expected to cause temporary embarrassments to the operating staff and consumers. Mr. Adams is, however, confident that the improved system is certain to accomplish all that has been promised for it and that, up to the limit of the supplies, will be found to render an excellent and satisfactory service. The report follows:

In May, 1906, I prepared a somewhat exhaustive report upon the condition at that time of the waterworks of the city of Victoria, B. C., the relative merits of and cost of developing and using sources of supply other than Elk lake, and made certain recommendations by the city in securing to its citizens an adequate water supply. These recommendations anticipated the improvement of the present plant and the continuation of the use of Elk lake until such time as it should seem expedient to acquire a larger substitutional supply from another source. Nothing in the way of actual construction having been undertaken by the city on the line of these recommendations, in December, 1907, I was requested to make and did make a supplemental report, reviewing my previous conclusions and recommendations, and, with minor modifications, reaffirming them. These recommendations were accepted, and a by-law authorizing the expenditure of the necessary funds was adopted.

During the past year the work of improving the system has been prosecuted, and it is now so nearly completed as to warrant a final report, giving the present condition of the various structures, what may be expected of them, and the cost thereof.

New Constructions.

The following new constructions have been undertaken:

- (1) The raising of the level of the high water in Elk lake $\frac{3}{4}$ feet.
- (2) The increasing of the capacity of the pipe line leading from the clear water basin at Elk lake to Dairy Farm pumping station by the substitution of 320 feet of 24-inch steel riveted pipe for a similar amount of 16-inch pipe; the discontinuance and the removal of 520 feet of 12-inch cast iron pipe from the clear water basin down to a junction now made between this said pipe and the newly laid 24-inch pipe.
- (3) The installation at the Dairy Farm Pumping Station of a horizontal cross-compound crank and fly-wheel pumping engine, having steam cylinders 14 and 28 inches in diameter, 124-inch water plungers and 30-inch stroke.
- (4) A distributing reservoir of 16,000,000 imperial gallons capacity on Smith hill.
- (5) The connecting of the Smith Hill reservoir with the distributing system by means of certain riveted pipes of diameters of 18, 24 and 27 inches.
- (6) The installation of two triplex motor-driven power pumps in the high service pumping station on Yates street, these pumps being arranged for driving by current taken directly from the wires through an automatic start and stop apparatus controlled by a float in the high level tank; the said pumps having a combined capacity of 210,000 gallons in 24 hours.
- (7) A high level tank having a height over all of about 112 feet and a capacity of 85,000 imperial gallons.
- (8) The laying of a large quantity of cast iron pipe ranging from 12 inches to 4 inches in diameter for the purpose of reinforcing and improving the distributing system and the extension of the same into new districts.
- (9) The placing of meters on all heretofore unmetered services.

Work as a Whole.

The work as a whole has been carried out under the general direction of the water commissioner, James L. Raymer. With the exception of the Elk Lake improvements and the laying of the cast iron pipe in the distributing system, the work has been subject to my general supervision and consultation, this taking the form of occasional trips or inspection to Victoria as often as the exigencies of the work seemed to require.

The manufacture and laying of the riveted pipe, both on the Elk Lake line and between Smith Hill reservoir and the distributing system, the installation of the pumping machinery at Dairy Farm Station and at Yates Street Station, and the construction of the Smith Hill reservoir were, during the major part of the work, under the personal engineering supervision of Mr. H. A. Icke; all of which, however, were completed under the direction of Mr. A. Kemppey, jr. Mr. Icke having resigned.

The high level tank was built under the immediate direction of Mr. Kemppey from inception to completion.

The installation of the pumping machinery, the manufacture of the steel riveted pipe and the laying of the same were all executed by contract.

The remainder of the work was accomplished, as seems to be customary in a municipal work in Victoria, by day labor.

This pipe was manufactured by the Hydraulic Supply Manufacturing Company, of Seattle, Washington, in a

shop specially installed in the city of Victoria for this purpose. Excellent workmanship prevailed throughout, and the pipe in actual use at the time of my last inspection (which included all save that on Hillside avenue) was apparently in perfect condition, and from the first filling had developed no markedly few leaks than, of course, being made tight immediately on their discovery.

Increased Capacity.

The increased capacity in the line between Elk lake and the Dairy Farm Pumping Station, inasmuch as the substitution in part of 24-inch for 16-inch pipe has been more than realized. This pumping engine was manufactured by the John Inglis Company Ltd., of Toronto. It gives every indication of being a substantial and well-constructed engine, suitable for rendering effective and economical service. At the time of my final inspection the pump for charging the various air chambers. This having been a subject of much correspondence and a great deal of delay, in accordance with previous advice which I had given the John Inglis Company I ordered at the expense of said company a suitable air pump to be installed. In the meantime one borrowed from one of the railways in Victoria was being used.

An examination preparatory to making test of the steam economy of the pumping engine disclosed an improper condition of steam traps and pump for returning the jacket condensation to the boilers, and faulty adjustment of the steam valves. It also disclosed a condition which did not admit of the proper adjustment of the valves without some slight machine work in modifying the length of the adjusting rods. These various defects I had corrected, with instructions that the cost thereof be charged against the balance due the John Inglis Company.

The steam valves were indicated and carefully adjusted. All of this caused a lapse of some days before the engine was ready for final test.

Duty of the Engine.

On July 15th the final test to determine the duty of the engine was run. As the pump was in regular operation, it was not considered necessary to run a long test, and accordingly it was made of but two hours' duration. The ordinary Bourdon gauges were used for determining the steam, water and condenser pressures. The work done by the engine was determined in foot pounds by multiplying the weight of the water pumped by the dynamic lift as determined by the difference in gauge readings on intake and outlet, corrected for the distances involved. The scheduled statements herein following show the result of the test; and the indicator cards accompanying it show the adjustment of the steam valves.

It will be observed that the actual dynamic lift against which the pump operated was but little more than 95 feet. This is very materially less than that which I had thought might possibly be imposed, as stated in the specification for the pumping engine, the difference being due to the fact that there was but little water in the Smith Hill reservoir at the time of the test, but chiefly to the very much less resistance in the pipe line both from Elk Lake to the station and from the station to the reservoir than is usually found in pipe of this character. In fact the small amount of resistance in the 16-inch pipe, considering the length of time it has been in use, is most unusual; a very fortunate circumstance inasmuch as it means a proportional saving in the amount of fuel necessary for the operation of the pumping engine.

The duty developed by the test, it will be observed, amounted, without allowance for slip, to nearly 100 million foot pounds of work done per thousand pounds of steam used. If 2 per cent. is allowed for possible slip, this duty becomes 98 million foot pounds. The duty guaranteed by the manufacturers under their contract when operating with 125 pounds steam pressure and against a head of 105 feet, is 115 million foot pounds, or 16 per cent. more.

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use of asphaltum expansion joints. As it is seldom possible to make a reservoir entirely water tight, especially when the structure is new, and as without provisions for its removal any escaping water would almost certainly find its way to the surface of the surrounding ground through the crevices of the rock in which the reservoir is built to the damage of said property, an open joint tile drain has been provided entirely around the reservoir in the broken stone filling immediately back of the front of the inside walls, this drain discharging the outlet pipe from the reservoir.

Defects in Reservoir.

At the time of my recent inspection, water to a depth of about five feet had been pumped into the reservoir, and there was flowing from this under-drain and also from a small drain placed during construction for the purpose of leading off water from a spring under one of the banks, a quantity of water which I roughly estimated might amount to about 30 gallons per minute. This leakage, through the book, but the fact that it was "Fruit-a-tives" alone that cured me.

(Mrs. Eliza Levesque. Take Mrs. Levesque's advice. Take "Fruit-a-tives" and cure yourself. 50c. a box, 2 for \$2.50; trial box 25c. At dealers or from Fruit-a-tives Limited, Ottawa.

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