WATER WORKS.

TESTIMONY OF ENGINEER TUBBS AND JAMES E. BOOTH.

Continuation of the Investigation.

thir reporter's notes of the testimony taken

storday by the Commission of Investigation were crowded out. We give to day the subantast parts of the details of the work as tuffed to by Engineer Tubns:

J. Nelson Tubbs testified as follows, as respects the flow of water from Hemlock lake: In the five months from August to December, water enough passed over the weir to supply the riv of Rochester with 6,000,000 gallons a day and leave 3,500,000 a day to feed the mills; August, 1874, was the smallest flow during the year, the average per day being 6,220,000 gallon. No observations have been made this vear the average per day being 6,220,000 gallon. No observations have been made this vear than the previous years, as more water has fallen; the gauging for the corresponding months of 1873 and 1874 was 1814 show a difference; take October, for include, was 42,500,000; and in the same month in 1874 was 18,500,000. The gauging fully confirms the calculation by the other methods. The question does not admit of the sughtest doubt that the supply is ample for all purposes. The minimum supply could not be less than 60 gallons per capita per day for a population of 150,000. Have not the slightest doubt but that Hemlock and Canadice lakes will supply all the water stated in my last resort. The area of the Rush reservoir is about 265, acres; the depth about 24 feet. The bottom of the reservoir is clay. It is a clay which, united with gravel or loam, forms a sort of cement. It is now exposed to view and can be examined.

In the distributing reservoir at Mt. Hope the original bottom was sand, but had made situatificial bottom of clay puddle about fiften or eighteen inches thick. The banks were constructed exactly like the Rush reservoir. Daniel Richmond had the superintendence of the construction of this reservoir, and W. W. Jerome that at Rush. The bottom was manufactured from brick clay, gravel and sand, Have given general superintendence to the construction of both these reservoirs. The Mt. Hope reservoir will contain 35,000,000 gallons, Tee Rush reservoir is strong enough to reservoir the amount of pressure. It intended to have the Mount Hape reservoir the same. There are two papes from this reservoir, one passing down South avenue and St. Paul street into a 20 meh main in Main street. The other passes over Judge Warner's lot in Mt. Hope avenue into Exeninge street, and from there up and down several streets to Lake avenue. There is also a branch pipe that connects with the Moin street main.

MAIN PIPES LAID. MAIN PIPES LAID.

Main street main.

Main pipes laid.

The total amount in the city of 16-inch pipe in to the 1st of last month was 26,675 feet; of the 1st inch, 28,217; 44,159 feet of 8-inch; 71,718 feet of 8 inch; 78,058 feet of 4-inch. These are the changes made up to the 1st of June. Since the last part made in January on the following there are no changes; 35,500 feet of 24-inch of wrought iron pipe, 7,344 feet of 20-inch, 6,086 feet of 10-inch, 833 feet 1 inch wrought iron, 82 feet 24-inch, 543 feet of 25-inch, 375 feet of 154-inch.

The total length of pipe is 22 13-100 miles. There may be 34 of a mile still to lay and about 700 feet to connect the reservoir on Mt. If pe the dimensions of the pipe already had from Hemlock lake to Bush reservoir. There is none laid till from the more laid. There is no more laid till the minor ponds are reached, when about a mile to a mile and a half of 30-inch wrought from is laid and about a mile of trench open ready to lay. The total length of the wrought from is laid and about a mile of trench open ready to lay. The total length of cast iron about six miles. There are about three miles of frenches open ready to lay the pipe, When all is laid there will be ten nules of wrought from thirty-six-inch pipe morth of the lake; also a gap two and one half miles twenty-four inch diameter, and between five and six miles of cast-fron pipe. Name of this east iron was indicated on the profile as twenty-six inch pipe. Between the Rich and Mount Hope reservoirs the pipe is all land. It is all cast iron of twenty-five inch diameter. There were several inspectors at the factory of the cast iron. The inspector of the wrought iron pipe was Mr. Jones. These inspectors acted under the orders that they were to see that the trenches were the proper depth: to thoroughly inspect the pipes, to see the blocks properly put in the packing with

determined then to use iron pipe; had no definite information and thought that if we had to use it, it could be let by other contracts just as well; the original proposals I will look for; B. O. Clark, of Jersey City, has subcontract for cast iron pipe; the Commissioners approved it and it is entered on the minutes; this pipe was made in seven foundries: Florence, Millville, Camden, Burlington, Bucksburg and Phillipsburg; the best part of the line on which brick conduit seem discand was found to be quicksand; the extra width of trenching in such soil would come upon the city; the difference would be somewhere near the difference fewern iron and brick; think even if properly lad would not answer for more than a mile and a quarter, not for four miles; the ravine bank there would be apt to slide off and break connection with the lake; the trench for brick would have to be twice as wide as for iron through quicksank, uneven setting is apt to break iron pipe; we found many places where hard and soft foundations alternated; if pipe is put down rapidly and quicksand confined it is all right; the supply pipes in the trenches and distributing places are of good materials, coated well, if a pipe is put dimensions according to contract

COST OF MAINTENANCE-REVENUE

The reservoirs also are perfect and sufficient to supply 7,000,000 daily; all the materials, outside of McDonald's contracts have been good and work perfect; has been done under my supervision; the Hemlock system will be fully equal to purposes intended; very little repairs will be need; during thirty years' estimate repairs on Hemlock plan, perhaps \$25,000 or \$30,000; operating expenses probably be about \$10,000 per year each for Hemlock and Holly Works, including repairs; for repairs, about \$5,000 for Hemlock works; Holly Works smaller; my estimate of the revenue for the first year, both in operation, is \$30,000; if managed right, more—perhaps \$50,000; do not know of any Commissioner, employe or agent who has received any compensation, benefit or advantage from any of the contracts, or in any way except regular salary, for which vouchers are made and on file; I believe the plans of the work to be of the most superior kind; have seen nothing to change my opinion upon them; no change or variation to cheapen work and operate to its disadvantage has been done; I think the works are the best that could be made.

Mr. Tubbs read the following statement: Mr. TUBBS read the following statement: If all the bids were canvassed at one dollar per thou and for brick and all other items same as bid the re uit would be as follows:

J. McDonald higher than Gers, Candes lower

John Hickier Peck & Peterson tiee, D. Lord belemater Bros Denison & Belden Friel & McNamee J. B. Cleveland Chas. A. Simpkibs Wood & Cross

James McDonald lower than Gere, Candoe

r than Gere, Candoe
John Hickier. 84, 251 25
Peck & Peterson 110,085 05
Geo. D. Jord. 919,180 00
Delymater Bros. 170,385 00
Delymater Bros. 270,730
Delymater Bros. 270,730
Delymater Bros. 327,730 00
J. B. Cleyviand 475,740 00
Chas, H. Simpkins 474,030 00
Wood & Co. 599,401 00 If the item of brick is eliminated from all the bids and cast from thirty-inch pipe substituted for the brick, the McDonaid bid will be about \$10,000 lower than any other.

THIS MORNING'S SESSION.

The following members of the committee

met this forenoon at 10 o'clock: Messrs. War-NER, CRAIG, PERRY, FILON. Mr. LAMPERT

sent in his resignation to the Mayor yesterday. The communication was not presented to the Board this morning. The first business done was the examination of records, deeds and papers, showing the right of way, etc. The committee, before beginning their work, en-

gaged in convursation regarding the resigna-

tion of Mr. LAMPERT. The members present expressed themselves in positive terms of disapproval of the course that Mr. LAMPERT has seen fit to take. They did not consider his withdrawal, at this state of the proceedings, exactly the right thing. No action, however, was taken in regard to his resignation, while the committee was in session, for the simple reason that they had received no official notifleation of the fact. The following is a copy of Mr. LAMPERT'S resignation: ROCHESTER, N. V., July 6, 1875. To His Honor, Mayor Clarkson: DEAR SIRI-I decline to serve further in connection with the Commission appointed to investigate the affairs of the Water Works and

of Mr. HINDMAN BARNEY, the unfortunate Toronto actor. Performances will also be given this evening and Friday and Saturday evenings, and should be well attended. Saturday afternoon a performance will be given for the benefit of the family of the late John Trevor. Such liberality on the part of the management should be rewarded by a full attendance at the evolung performances. Entertainment at West Wolcott.

Last Saturday the people of West Wolcott celebrated their Fourth of July in a sensible from Field's a large tent, which W. J. Coon-The afternoon was spent by the young tolks in dancing, and in the evening an amateur dramatic association performed " The Streets of New York" and "Paddy the Piper," to the gratification of a large audience. The affair was pleasant in

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