

REPORT OF THE BOARD OF WATER COMMISSIONERS FOR THE YEAR ENDING DECEMBER 31, 1896.

OREGON CITY, Or., January 1st, 1897.

To the Honorable the Mayor and City Council of Oregon City, Oregon:

GENTLEMEN—

Agreeable to the requirements of the City Charter, we herewith respectfully submit the following report, showing the condition and value of the City Water Works, with a brief history of the work done by the Board during the past year.

The most important work has been the building of the reservoir at Elyville, which will be fully described under a separate head.

We have laid 1500 feet of six inch main on Molalla avenue to connect with reservoir, also the following galvanized pipe: 212 feet 1½ inch on lower Seventh street; 256 feet 1½ inch on J. Q. Adams street, besides 78 feet 1½ inch, 18 feet 1 inch, and 360 feet ¾ inch, used mainly in 19 service tapings, during the year, besides the necessary fittings. Five hydrants have been placed along Molalla avenue and one reset at corner of Seventh and Main streets.

The pumps have been run continuously with but slight repairs.

It was found necessary to change the Main leading to the union pump, which had developed a weakness, owing to heavy pressure of 210 pounds per square inch reacting on the right angles at which the same had been placed at the time the pump was set up. This pipe, by reason of being on top of the factory flume, was not thoroughly secure, and owing to the several angles in same, was also very unsightly. This pipe was removed and run under the flume at easy angles, and has since given good satisfaction.

In order to supply the city mains from the reservoir to their fullest capacity, it will be necessary to take up the four inch main on Seventh street, from Monroe to Molalla avenue, about 1600 feet, and replace with six inch pipe, which will double the capacity, and make a uniform main from reservoir to Monroe street, where it connects with the two six inch mains on Fifth and Seventh streets, until they join at Fifth and Center streets.

At the time this main was run, in the summer of 1892, it was then planned to lay an additional four inch main from Monroe street on Sixth to Molalla avenue, whenever it should be required; as at that time no definite location for a reservoir had been selected and the extra cost of a six inch pipe was deemed too much of an outlay at the time. As the expense of taking up the four inch pipe and relaying the six inch would not exceed \$200.00, it is therefore economy to have but the one main, and the four inch main can be relaid wherever it may be desirable.

In order to do this the Board will have to expend about \$1000.00, and commence the work early in May next, so that the same will be ready for sprinkling season, when there is such a great demand on the water supply. This change is really necessary to furnish an adequate supply in case of drawing from the reservoir for fire service.

You will notice from the exhibit that there is due the city, \$1096.24, which will be added to at the rate of 30 per cent of the gross revenues from month to month.

From present indications we see no reason why our outstanding warrants should not be nearly all paid off, so as to warrant us in paying the city at the rate of \$200.00 per month, commencing with August 1st next, and at the same rate monthly thereafter, until the city has been paid its full proportion; until such time we respectfully ask your forbearance.

RECEIPTS.

FOR THE SIX MONTHS ENDING DECEMBER 31, 1896.

Collections for month of July	\$503 75
" " " August	480 00
" " " September	607 48
" " " October	496 55
" " " November	489 65
" " " December	700 00
Total collections	\$3917 43
Amount in Treasurer's hands July 1st, 1896	\$1089 19
Total receipts	\$5006 62
Warrants issued and outstanding	\$2415 06

DISBURSEMENTS.

FOR THE SIX MONTHS ENDING DECEMBER 31, 1896.

Wetzler and Abrey, reservoir account	\$5153 73
Oregon Iron & Steel Co., pipe and fittings	64 97
Portland General Electric Co., light	14 70
J. Jones, carpenter work and service boxes	6 75
G. H. Bestow & Co., service boxes	1 25
Lawrence & Wishart, carpenter work at station	15 00
R. G. Pierce, laying brick for regulator well	3 25
Timothy Kieley, 8 inch regulator and diaphragm	189 50
O. C. Enterprise, letter heads and notices	8 75
T. S. Lawrence, building and painting reservoir fence	72 00
O. W. Friederich, blacksmithing	8 45
J. and W. White, lead seals, press and rubber stamp	6 75
Reservoir account, miscellaneous bills	256 59
Geo. Broughton, lumber	72 37
Labor on mains and improvements at station	125 70
Wolf & Zwicker Iron Works, pipe	285 73
O. N. Greenman, drayage and material	10 95
W. H. Cooke, drayage	15 30
Pope & Co., labor, \$130.00; material, \$148.94; 4 taps, \$12.41; reservoir account, \$38.32	329 67
O. O. Iron Works, new work and repairs	104 46
W. H. Howell, salary as superintendent	270 00
T. L. Charman, salary as secretary, \$50.00; commission on collections, \$105 77	215 77
Sundry expense, freight, telegrams and stationery	22 15
Interest on bonds to January 1st, 1897	300 00
Interest on warrants from October 2d to December 31st	32 24
Total disbursements	\$7542 68

THE NEW RESERVOIR AT ELYVILLE.

The Board began to prepare plans and specifications early in February last, and had progressed so far that the necessary pipe was ordered in April, and bids were advertised for in the city papers and the Oregonian, which resulted in obtaining eight responsible bids.

Messrs. Wetzler & Abrey, of Portland, were the lowest bidders and were awarded the contract at the following prices:

Earth excavation, 14½ cents per cubic yard.
Loose rock excavation, 48 cents per cubic yard.
Solid rock excavation, 90 cents per cubic yard.
Concrete lining, six inches thick, \$5.50 per cubic yard.
Concrete coping, \$5.50 per cubic yard.
Asphalt lining, 20 cents per square yard.

Smith & Howard received the sub contract for the excavation, and commenced work in the first week in June, and completed their part during the month, at least 10 days later than anticipated, owing to the large amount of rock met with, and delay caused by several hard rains.

The balance of the rock progressed rapidly, and by July 25th, the same was completed and the water was turned in.

The capacity is 1,449,260 gallons.
Height above Main street, 415 feet.
Pressure at pump to throw over 40 foot stand pipe, is 210 lbs. per square inch.

Water was pumped in for three weeks before it was filled. This was on account of the excessive use during the day for sprinkling and also due to the four inch Main on Seventh street, from Monroe to Molalla avenue, which causes too much friction for rapid pumping. The six inch main to replace this will give the desired service and remedy this defect.

August 25th, after a thirty day trial, the reservoir was formally accepted as completed, according to contract; and was found to come up to our most sanguine expectations.

All the laborers employed on the work were principally from this neighborhood, and outside of the material and cartage, the money expended benefited our citizens mainly.

All pipes were laid under the supervision of the superintendent, W. H. Howell, and without doubt cheaper than same could be contracted for.

The Board was ably assisted by city engineer, H. H. Johnson, and also J. F. Case, city engineer of Portland, who superintended the construction during the progress of the work.

The reservoir was made nearly 50 per cent larger than was first contemplated, and is none too large for present needs, affording about two days supply, but with economy in an emergency, would last longer.

In consequence of the large amount of rock to contend with, and the extra size, our original estimate of cost was exceeded from \$1500.00 to \$2000.00; but even then the cost is reasonable.

The whole work has been thoroughly and substantially done, and the progress of the work has been noted by frequent visits of each member of the Board, and we can truly say that work is all first-class, and that Oregon City has the best reservoir in the state.

The cost is classified as follows:

Wetzler and Abrey, contract	\$5375 58
Superintendence, engineering, plans and specifications	275 00
Gate well	100 00
Supply and waste pipes, gates, fittings and stand pipe	987 00
Labor of laying pipes	280 00
Fencing site, 812 lineal feet	204 11
Miscellaneous expenses	120 92
Total cost	\$7342 72

Cost of land for reservoir

Total cost

Amount in water fund, January 1st, 1896

Total collections for six months ending July 1st, 1896

Total collections for six months ending January 1st, 1897

Total receipts for the year

Warrants issued and outstanding

CLASSIFIED DISBURSEMENTS.

Amount paid city, 20 per cent for quarter ending January 1st, 1896	\$349 25
Interest on \$10,000 6 per cent water bonds	600 00
Salaries, superintendent and secretary	641 00
Commission on collections	732 70
Cost of constructing reservoir	3342 73
Electric lights	29 40
Stationery, printing and incidentals	48 42
Molalla avenue, main from a Hickman's corner	1000 00
Labor on mains and repairs	566 70
Eight-inch regulator on Seventh and Monroe streets and setting	200 00
Replacing mains at station	500 00
Material used in repairs and construction	408 12

INVENTORY

OF MATERIAL AND TOOLS ON HAND, DECEMBER 31, 1896.

MATERIAL.

1½ Dozen each ¾-inch and 1-inch service cocks	\$36 00
1½ Dozen 2-inch clamps	6 75
½ Dozen 6-inch clamps	6 00
25 Service boxes	25 00
8-4 inch, 3-6 inch, 3-8 inch and 2-10 inch sleeves; 1 10-inch elbow; 1 10x4 Y;	
3 6x4 T's; 1 6-inch Y; 2 4-inch plugs	60 00
1 Set cast gears	25 00
2 18x18; 4 6x6 Iron covers	10 00
Air chambers	10 00
Old rubber belt	10 00
Leather belt	75 00
225 lbs. lead	10 00
500 feet 6-inch cast pipe	180 00
12 feet 3-inch; 30 feet 4-inch; 30 feet 8-inch; 24 feet 10 inch pipe	64 00
1 4-inch gate	8 00
One old four-plunger pump, valued at	250 00
Clamps and old iron	10 00

TOOLS.

Two tapping machines	\$100 00
Revolution counter	12 00
One lead seal	3 50
Seven wrenches	10 00
Oil can, 50c; 4 shovels, \$1.25; 3 picks, \$1.00	2 75
Two 8-pound hammers, \$4.00; 3 steel bars, \$7.50	11 50
Two tapping bars, \$4.00; axe, 75c	4 75
Fifty feet 1 inch rubber hose	15 00
Two 8-inch ladders, \$2.00; lead melting pot, \$4.00	6 00
Four steel drills, \$5.00, stone hammer, \$2.30	7 00
100 feet rope	2 50
Tool box	3 50

APPROXIMATE VALUE OF WATER WORKS.

Werthington low pressure pump, water wheel, station, flume and penstock, total	\$11500 00
Union pump, high pressure	6020 00
Water mains on the hill	14600 00
" " Main street	8200 00
" " Madison street	1180 00
Reservoir at Elyville	7342 73
Inventory material on hand	1033 00
Tools	800 75

Approximate value, May 23d, 1891, when turned over to the Board

Net increase

Total revenue from May 23d, 1891, to December 31st, 1896

Estimated revenues for the year 1897

Water bonds due in 7 years, 6 per cent interest semi-annually

The council kindly consented last spring to allow the Board to withhold the 30 per cent due the city from the gross revenues, until such time as the Board should have funds to resume the payments; so that it was possible to build the reservoir last summer.

There is now due the city

Fire protection is afforded by some 55 hydrants throughout the city at no cost for water, which is quite an item, when one considers that in the early history of the waterworks the city paid \$1000 per year for hardly a dozen hydrants on Main street.

There are no unpaid claims not here enumerated.

BOARD OF WATER COMMISSIONERS.

Respectfully submitted,
CHAS. H. CAUFIELD, President.
T. L. CHARMAN, Secretary.

Populist Resolutions.

The committee of the Populist party held a meeting Saturday and passed the following resolutions:

Whereas, The county court has increased the debt of Clackamas county \$23,909.15 within the past twelve months by work on our roads, in addition to the road tax of \$17,070.97; and

Whereas, Such expenditure is clearly in violation of the constitution of Oregon prohibiting any county indebtedness in excess of \$5000; and

Whereas, Such excessive expenditure is unwise and unjust to our debt-burdened people, as well as illegal and unconstitutional; therefore be it

Resolved, That we, the people's party central committee, demand that our county court limit its expenditures to the absolutely necessary expenses of the county, to the end that our county debt may be paid; and we request Hon. S. F. Marks to bring this resolution to the attention of his republican associates, County Judge Hayes and County Commissioner Frank Jaggar. And be it further

Resolved, That the road supervisors should be paid from the road fund and that they should be expected to work.

E. H. COOPER, Chairman pro tem.
CLYDE EVANS, Secretary pro tem.

Poultry Pays.

No matter whether you keep one dozen or one hundred hens each one should pay over \$1 per year net. The demand for good poultry and fresh eggs always exceeds the supply and will for years to come. Whether you know how to make poultry pay or not you should take and read a reliable poultry journal, one that is an authority on matters pertaining to successful poultry keeping. The American Poultry Journal of Chicago is such a paper and it having been established for over 27 years is recognized as such. Send to publishers for sample copy. The subscription price is but 50 cents per year.

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Returning, boats leave Portland same days at 6:00 a. m., arriving at Albany at 7:45 p. m.

J. C. MAYO, Supt. River Division, Corvallis, Or.

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9:30 P. M. Lv Oregon City Ar 7:20 A. M.

11:15 A. M. Ar San Francisco Lv 7:00 P. M.

The above trains stop at East Portland, Oregon City, Woodburn, Salem, Turner, Marion, Jefferson, Albany, Eugene, Shasta, Halsey, Harrisburg, Junction City, Irving, Eugene, Creswell, Cottage Grove, Grants, and all stations from Roseburg to Ashland, inclusive.

ROSEBURG MAIL DAILY.

8:30 A. M. Lv Portland Ar 4:40 P. M.

9:27 A. M. Lv Oregon City Ar 3:40 P. M.

5:20 P. M. Ar Roseburg Lv 8:00 A. M.

SALEM PASSENGER DAILY.

4:00 P. M. Lv Portland Ar 10:15 A. M.

4:40 P. M. Lv Oregon City Ar 9:27 A. M.

6:15 P. M. Ar Salem Lv 8:00 A. M.

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