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REPORT OF THE WATER COMMISSION

Giving Cost and Present Value of the Water Plant.

To the Honorable Mayor and Common Council of the City of Astoria, Oregon: Gentlemen—In accordance with Section No. 176 of the city charter, we herewith beg leave to report the receipts and disbursements of the Astoria Water Commission for the quarter ending December 31, 1896, as follows:

RECEIPTS. For the month of October our gross receipts were— From act of water rates \$2,270 90 From act of turning on water 2 00 From act of tapping mains 35 50 From sale of White Hall boat to John Hanson 50 00 From sale of 9 loads of stone to C. L. Houston 4 50—\$ 2,362 90 For the month of November our gross receipts were— From act of water rates \$2,145 20 From act of turning on water 2 00—\$ 2,147 20 For the month of December our gross receipts were— From act of water rates \$2,036 80 From act of turning on water 2 50 From act of tapping mains \$7 50 less \$2 50 returned John Hobson for tap, No. 533 C street 5 00—\$ 2,044 30 Making the entire receipts for the quarter \$ 6,554 40 As per report filed October 7, 1896, we had on hand in the treasury at the end of the last quarter \$ 9,213 14 This shows a total of \$15,767 54

DISBURSEMENTS. Interest account \$4,000 00 Expense account 290 90 Supt. salary 375 00 Repairs to mains 46 84 Stationery and printing 15 40 Office expense 31 80 Clerk's salary 225 00 Rent of office 50 00 Loose property 156 23 Stock of supplies 292 33 Office furniture 1 50 Tools 18 04 Adv. account 9 00 Litigation 308 15 Legal services 325 00 Expense of taking up old street mains 105 10 Repairs to pipe line 207 78 Expense cleaning and dipping pipe 666 71 Telephone line 99 85 Expense taking up old conduit pipe 33 50 Reservoir No. 2 60 19 Distribution system "New Works" 25 93 Asphaltum 178 50 Gate well and power house 43 65 Expense mapping distribution system 7 05 "Bondsmen" of the Pacific Paving Co., "contractors" 253 45—\$11,866 90 Leaving a balance on hand in the treasury of \$ 3,900 64

This being the last quarterly report for the year 1896, we append herewith as required by the charter, inventories (prepared by the superintendent and clerk) showing the property of the city pertaining to the water works plant, now under control of the commission, as follows, to-wit:

Inventory of the office furniture of the Astoria Water Commission, with approximate values— 1 Safe \$325 00 1 Counter and desk combined 60 00 1 Directors' table 35 00 1 Writing table 4 00 1 Folding top desk 45 00 1 "Desk" chair 3 00 1 "Screw" desk stool 2 50 1 "Wood" desk stool 1 00 12 Office chairs 24 00 1 Chest drawers 7 50 1 Letter press 8 75 1 Letter press stand 2 50 1 8-foot drafting table (including trestle) 3 00 1 Official seal 4 00 2 "Centennial Dater" stamps (clerk and treasurer) 14 00 8 Shannon letter files (with clipper) 16 50 3 Shannon letter files (without clipper) 3 75 4 Hook files 5 00 1 Waste basket 1 00 1 Spring penholder rack 20 1 1 Ruler 25 1 2 Rubber stamps 50 1 Pair actosors 50 2 Ink wells 2 50 3 Ink stands 1 50 1 Ferguson city map 15 00 1 Insurance map 17 50 1 Tin map box 2 50 6 Blue print frames 4 00 53 Square yards of linoleum 58 30 2 1/2 Square yards of linoleum 10 85 9 Window shades 9 75 1 Night latch on office door 1 75 1 Night latch on shop door 1 50 9 Extra keys for office door lock 2 25 1 "Letterbox" door plate 35 1 Ventillator 3 75 Gas fixtures and connections 14 33 10 Hat and coat hooks 15 1 Enlarged photographic views (framed) 61 25 1 Group of "4" photographic views (framed) 3 75 1 Photographic view of settling basin 40 1 Photographic view of inside reservoir No. 2 50 1 Bristol recording gauge, including fittings used connect-

ing same with street main. 45 15 1 Water gauge 6 50 1 Steel sink and fittings, including hose bib and pipe connecting the same with street main 7 25 1 Wash stand, including pipe connecting same with street main, and basin cock 14 58 1 Tin cup 2 25 1 Soap dish 10 1 Hot water stove heater with pipe connections 55 10 1 Stove mat 2 25 1 Coal hod 75 1 Small ash shovel 20 2 Pipe covers 25 1 Dust pan 15 1 Counter duster 25 1 Feather duster 75 1 Broom 40 1 Mop handle 25 2 Cuspidors 2 00 4 Towels 80 1 Office sign 18 00 1 Stove in use at power house 10 00 \$928 29

Inventory of loose property of the Astoria Water Commission, with approximate values.

1 600 lb. Cement testing machine and its appurtenances \$ 178 87 1 Tent (12x14) with fly attachment, poles and pins 15 50 1 Sibley Stove 5 00 1 14-foot skiff 15 00 1 15-foot Skiff for Reservoir No. 2 16 25 1 21-ft. Dipping Tank (set in furnace at Reservoir No. 1 yard) 131 50 1 Shovel over Dipping Tank 139 91 1 Asphalt Kettle 25 00 2 Galvanized Iron Buckets (for Asphalt Work) \$11 50 3 00 1 Galvanized Iron Dipper (for Asphalt Work) 1 25 4 Asphalt Sillman 1 54 1 10-inch Stove Pipe Elbow for asphalt furnace kettle 1 00 1 8 lbs. Cotton Rope 1 20 1 160 feet 1-inch rubber hose, a 10 16 90 7 lanterns 4 50 1 Coal oil can (fine) 50 6 1 Coal oil can (tin) 40 1 43 Sandvut sacks, a 50 2 15 1 Barrel 1 50 1 10-lb. strainer 8 00 1 bath pan (for blue printing) 1 50 2 Tin cups, a 50 10 2 Buckets 70 1 6 1/2-inch Hersey meters, a 14 45 86 70 1 4-inch Worthington meter, a 15 60 300 1 1 1/2-inch Worthington meter 55 00 600 feet 2x4 lumber @ \$8 and \$1 cartage, used racking pipe 5 50 1667 feet 2x4 lumber @ \$8, stored in yard 13 34 1648 feet 6x8 lumber @ \$8, at reservoir No. 1 13 18 1 Asphalt kettle scaling bar 50 3 1 Dow duplex power pump, fittings and fixtures 807 45 \$1,638 69

Inventory of tools of the Astoria Water Commission, with approximate values—

1 Mueller tapping machine and saddles \$ 95 00 2 1/4 inch Mueller combination drills and taps @ \$4.10 12 20 1 1/2 inch Mueller combination drill and tap 5 00 2 3/8 inch Mueller combination drills and taps, @ \$3.50 7 00 2 1/2 inch Mueller combination drills and taps, @ \$3.25 6 50 2 3/8 inch Mueller combination drills and taps, @ \$3.00 6 00 1 National tapping machine and fixtures 42 00 1 Walworth stock and die, 1 1/2 to 2-inch 9 00 1 Walworth stock and die, 1/2 to 1-inch 6 75 1 No. 1 Barnes pipe cutter 2 50 1 No. 5 Barnes pipe cutter 19 85 1 No. 2 Saunders pipe cutter 3 50 1 Parker vice 18 00 1 Pair pipe tongs 4 00 1 Pair pipe tongs (Brown's) 1 50 1 Pair chain tongs (Brook's) 7 55 2 Hand saws @ \$1.50 3 00 1 Compass saw 50 1 Man saw 2 75 2 Calling hammers, @ \$1.50 3 00 1 Claw hammer 60 1 No. 8 Sledgehammer 1 00 1 Steel bar 1 50 2 Iron bars, @ \$1 2 00 2 Pouring ladles, @ 75c and \$5 each 5 75 1 Melting furnace 10 00 2 Melting pots, @ 90c and \$1.40 each 2 30 27 Calling, cutting and yarning tools, @ 50c 13 50 3 Mattocks, @ \$1.50 4 50 4 Picks, @ 90c 3 60 9 Shovels, @ \$1 9 00 2 Axes, @ \$1.25 2 50 1 Mason's trowel 90 1 Peavy 1 50 2 100-foot steel tapes 15 20 2 50-foot steel tape 4 50 2 50-foot metallic tapes, @ \$2.45 4 90 1 Level rod for engineers 1 00 1 Steel rod for engineers 1 00 5 1 2-inch pouring clamps, @ \$3 1 00 1 Dipper 1 00 1 Grindstone 1 85 1 Jackscrew 3 75 5 Street brooms, @ 50c 2 50 2 Steel brace wrenches 3 50 1 1 1/2-inch carpenter's chisel 60 1 Pair clippers and straps 3 75 1 Set come-alongs and 60 feet of rope 6 50 1 Set 6-inch blocks and 60 feet of rope 6 00 1 6-inch 1 shive block 1 75 1 6-inch 1 shive block 75 2 Paint brushes, @ 90c 1 80 4 Steel wire brushes at 65c 2 60 1 Concrete tamping 1 00 1 18-inch Stillson wrench 2 00 1 12-inch Franklin 1 50 2 8-inch monkey wrenches, @ 50c 1 00 1 Pair pliers 75 1 Screw driver 50 1 Oil feeder 50 5 Stop box keys 1 00 6 Fire hydrant keys 8 00 2 Valve keys, large, @ \$4 8 00 2 Valve keys, small, @ 75c 1 50 1 Valve key at power house 3 50 1 8-inch combination gauge 9 40 1 Set connecting pipes for same 70 1 Hand lifter for gauge index 1 75

1 Steel stamp, A. W. W. 75 1 Hand push cart 6 50 Tools at hand works— 1 Long handle shovel 1 00 1 Valve key 4 00 1 Lantern 75 1 Steel rake 2 50 1 Wharf broom 50

Inventory of supplies of the City Water Works, with approximate values—

209 9 feet 14 in. No. 12 steel riveted pipe \$ 1 09 1 94 10 feet 15 in. No. 12 steel riveted pipe 1 05 98 81 62 70 feet 16 inch No. 10 steel riveted pipe 1 25 78 23 12 feet 18 inch cast iron pipe 2 24 26 88 26 feet 14 in. cast iron pipe 1 70 44 20 26 feet 12 inch cast iron pipe 1 25 128 25 34 4 feet 10 in. cast iron pipe 1 00 34 40 65 7 feet 5 in. cast iron pipe 75 49 28 273 2 feet 6 in. cast iron pipe 57 1 507 81 992 4 feet 4 in. cast iron pipe 40 296 80 42 9 feet 12 in. Kalamen pipe 1 48 63 49 4 8 feet 8 in. Kalamen pipe 83 3 49 27 296 6 feet 6 in. Kalamen pipe 57 1 593 72 666 4 feet 4 in. Kalamen pipe 40 266 40 22 2 feet 10 in. Black Converse pipe 80 17 60 177 feet 8 in. Black Converse pipe 60 106 20 34822 feet 6 in. Black Converse pipe 40 13 925 59 611 feet 6 in. Black Converse pipe 25 152 75 7094 feet 6 in. Matheson L. J. pipe 40 2 501 60 318 feet 6 in. wrought iron pipe (screw) 40 137 29 1000 feet 6 in. cast iron pipe in Bond street, bet. Fourth and Eighth 40 499 00 214 feet 6 in. cast iron pipe in Eighth street, between Bond and Commercial 40 85 60 1320 feet 2 in. galvanized iron pipe 12 212 80 423 feet 1 1/2 in. galvanized iron pipe 12 49 56 10 feet 1 in. galvanized iron pipe 08 80 40 feet 3/4 in. galvanized iron pipe 07 2 80 29 feet 1/2 in. galvanized iron pipe 05 1 00 20 feet 5/8 in. Converse pipe (second quality) 20 8 00 11 feet 5/8 in. wrought iron pipe (second quality) 20 10 00 50 feet 4 in. cast iron pipe (second quality) 13 1 55 13 feet 3 in. wrought iron pipe (second quality) 10 283 10 3831 feet 6 in. expansion joints 20 80 00 2 Watrous fire hydrants 26 00 78 00 1 10 in gate for Converse pipe 11 00 1 6 in gate (screwed ends) 11 00 4 6 in. gates 11 00 44 00 3 6 in. gates (second quality) 7 00 21 00 17 4 4 in. gates 9 00 153 00 6 4 in. gates (second quality) 5 00 20 00 41298 the special castings 40 571 92 29 6 in. wrought iron elbows 1 00 39 00 1 10 in. to 8 in. reducer 5 00 2 50 1 6 in. 90 deg. elbow for screw pipe 3 00 1 6 in. 45 deg. elbow for screw pipe 2 50 2 6 in. plugs 1 00 2 00 1 6 to 3 bushing 1 25 1 10 in. strainer (old conduit pipe) 5 00 300 steel bands for 18 in. stave pipe 09 27 00 200 shovels for 18 in. stave pipe 03 9 00 25 6 in. mending clamps 50 12 50 3 4 in. mending clamps 50 1 50 4 6 in. couplings 60 2 40 1 4 in. coupling 25 1 1/2 in. coupling 10 15 22 2 in. couplings 08 95 12 1 1/2 in. couplings 06 15 3 1 in. couplings 05 25 5 3/4 in. coupling 05 15 3 1/2 in. coupling 05 15 1 2x2 1/2 crosses 12 36 3 2 in. tees 10 16 1 1 1/2 in. tees 09 54 6 1/2 in. tees 09 40 4 4 in. elbows 25 75 3 3 in. elbows 10 40 4 2 in. elbows 09 18 2 1 in. elbows 06 12 2 1/2 in. elbows 06 12 2 3 in. flange unions 1 00 2 00 1 1 1/2 in. union 25 1 1/4 in. union 25 1 1/2 in. union 25 1 3/4 in. union 25 1 4 in. cap 05 10 2 3/4 in. caps 10 40 4 2 in. plugs 06 24 4 1 1/2 in. plugs 02 08 2 3/4 in. plugs 02 08 4 1/2 in. plugs 02 08 1 3 in. to 2 1/2 in. reducer 20 25 1 2 1/2 to 1 1/2 in. reducers 20 80 1 3 in. to 2 1/2 in. bushing 20 15 1 2 1/2 in. to 1 1/2 in. bushing 10 10 1 2 in. to 1 1/2 in. bushing 10 10 1 2 in. to 1 in. bushing 10 10 1 2 in. to 3/4 in. bushing 10 10 6 3 in. nipples 30 1 80 1 2 1/2 in. nipples 10 30 3 1 1/2 in. nipples 10 30 2 1 1/4 in. nipples 10 40 1 2 in. hose nipples 25 1 1/2 in. hose nipples 15 1 1 in. hose nipples 10 10 1 3/4 in. hose nipples 10 10 1 3/4 in. hose nipples 10 10 1 3 in. stop cock 3 00 1 1 1/2 in. stop cock 1 00 2 1 in. stop cocks 50 2 2 in. globe valve 2 00 6 2 in. gate valves 3 00 18 00 2 1 1/2 in. globe valves 1 25 2 50 2 1 1/2 in. gate valves 2 75 1 00 1 1 in. globe valve 1 00 1 1/2 in. globe valve 1 50 106 20 10 10 in. service clamps 1 00 49 60 24 8 in. service clamps 1 05 25 20 51 6 in. service clamps 70 35 70 62 4 in. service clamps 65 40 30 120 service boxes (long) 81 105 20 158 service boxes (short) 72 113 76 5 1 in. Clow connections 3 70 18 50 15 1 in. corporation cocks 1 20 18 00 24 3/4 in. corporation cocks 75 18 00 36 3/4 in. corporation cocks 53 19 08 65 1/4 in. corporation cocks 34 22 10 14 1 in. service cocks 75 10 50 30 3/4 in. service cocks 45 13 50 10 3/4 in. service cocks 29 17 40 24 extra service box cover screws 17 4 08 3000 lbs. pig lead 04 120 00 5 barrels asphaltum 6 00 30 00 \$24,789 24

The "new system" of water works constructed by the Commission having now assumed a completed state as outlined, and into which such portion of the old system which was practicable has been merged, we beg now to report that the cost of this system in its entirety is \$277,868.63. Recapitulation of above cost— Preliminary surveys \$ 6,718 63 Location surveys 1,908 08 Plans and specifications 2,853 90 Consulting engineer 1,815 75 Expense of advertising 890 45 Expressage on bonds 412 60 Water rights, riparian rights, rights of way, etc. 23,085 37 Cedar creek diverting ditch 400 00 Expense of having James

street extension established as street 1,001 25 Expense clearing and making road in James street extension 10,019 71 Expense of locating reservoir site 256 05 Tunnel borings 626 85 Telephone line 2 219 95 Pipe line trenching and road making 15,228 32 Wooden stave conduit 26,401 77 Steel conduit 23,064 14

wooden stave pipe, 16,428 feet 16-inch steel riveted pipe, and 4,574 feet 14-inch steel riveted pipe. Power and gate house situate at Reservoir No. 2. Reservoir No. 1—capacity 500,000 gallons. Reservoir No. 2—capacity 6,250,000 gallons. Tunnel through Coxcomb ridge 900 feet long, lined with concrete. Distribution system, consisting of the following: 800 feet 18-in. wooden stave pipe in tunnel. 101.5 feet 18 in. cast iron mains. 1064.9 feet 14 inch cast iron mains. 2718 feet 12 inch cast iron mains. 5188.3 feet 10 inch cast iron mains. 2997.3 feet 8 inch cast iron mains. 4374.6 feet 6 inch cast iron mains. 2690 feet 4 inch cast iron mains. 4452.1 feet 12 inch kalamen pipe mains. 2487 feet 8 inch kalamen pipe mains. 2673 feet 6 inch kalamen pipe mains. 840 feet 4 inch kalamen pipe mains. 2199.8 feet 10 inch wrought iron mains. 2237.2 feet 8 inch wrought iron mains. 5966.3 feet 6 inch wrought iron mains. 1010 feet 4 inch wrought iron mains. 2127 feet 2 inch galvanized iron pipe mains. 209 feet 1 1/2 inch galvanized iron pipe mains. 633 feet 1 in. galvanized iron pipe mains. 1 14 inch hydraulic fire gate and fixtures. 1 10 inch hydraulic fire gate and fixtures. 90 Watrous fire hydrants. Telephone line to head works via power house. Road property as follows: Property on which Reservoir No. 1 is situated. Property on which Reservoir No. 2 is situated. Property at Bear creek—20 acres. Property at Cedar creek—10 acres. Pieces of property along the pipe line within the city limits. The remaining portion of the original works, consisting of conduit pipes and street mains, together with their fittings, etc., with the exception of 1214 feet of 6-inch cast iron pipe in Bond and Eighth streets, have all been taken out, cleaned, redipped in asphaltum, stored away in the yard, and accounted for in book.

SUMMARY. Water works system (assuming it to be worth what it cost) \$277,868 63 Stock of supplies 24,789 24 Loose property 438 46 Tools 838 29 Office furniture 838 29 Total estimated value of water works plant \$305,671 25 Very respectfully submitted, THE ASTORIA WATER COMMISSION.

By W. W. PARKER, Chairman. Attest: H. G. VAN DUSEN, Clerk.

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Do you know that the Daily Astorian added Fifty new paid subscriptions to its list during the month of January, 1897? This speaks for itself.