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Philadelphia. Councils. Joint Committee on Water Works.

Report of the Joint Committee.

Philadelphia, Cochran, 1802. 23 pp.

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REPORT (5)

OF THE

JOINT COMMITTEE,

APPOINTED BY THE

SELECT AND COMMON COUNCILS

for the purpose of Superintending and Directing the

WATER WORKS.

Printed by order of the Common Council.

PHILADELPHIA:

Printed by **ROBERT COCHRAN**, 108, Race-street.

1802.

VOLUME

TIGHTLY

BOUND

R E P O R T.

The COMMITTEE of the SELECT and COMMON COUNCILS appointed for the purpose of superintending and directing the Works now in operation for introducing a copious supply of wholesome Water into the City—

REPORT,

THAT, in conformity with the directions contained in the resolution of their appointment, "That they should report to Councils the present state of the Works,"—they have thought it proper, at this time, to present the following information on that head.

At the BASON nothing has been done since the Report to Councils last year. The coping of the southern half of the wall is all that remains to be done towards completing this part of the work. Stone for this purpose is yet to be provided. The wall has remained in the state it now is through the whole of the last season, and does not appear to have suffered any injury. It may easily be finished, at an expence of about eight hundred and twenty-five dollars, whenever it shall be thought necessary, and the funds can readily be spared for that purpose.

The **CANAL** also remains in the same situation as reported last year. In order fully to complete it, it will require coping on the sluice and walls, and a grate to be fixed at the mouth of the lower Tunnel which opens into the Canal. No part of this work appears to have received any injury by not being completed; and the expence of the coping and grate has been estimated at one thousand and thirty dollars.

At the **SCHUYLKILL ENGINE HOUSE** all the carpenters work, which was contemplated to be done, has been finished, excepting the stages and ladders for the well. The marble coping at the pump chamber which was proposed, has not been executed. The walling of the cellar has been done by Bollman & Co. who, since last spring, have had possession of, and enclosed a part of, the lots leased to Nicholas I. Roosevelt, and have erected in the Engine House works and machinery to be driven by the extra power of the Schuylkill Engine, which is now actually employed for that purpose, under the contract with Nicholas I. Roosevelt. Besides the walling of the cellar, these gentlemen have executed other work in the Schuylkill Engine House for their own accommodation.

The **UPPER TUNNEL** was supposed to require pointing on some parts of the inside, but, from its present appearance this does not now seem necessary, as the cement has become perfectly hard, and the tunnel contains the water with very little waste. Two air-drains were left in this tunnel at suitable distances; and these, to be rendered perfect, will require a stone coping and grates. As yet, however, the Tunnel being open at each end, and the water rising in it but slowly, they have not been found to be absolutely necessary. They have

been covered with earth ever since the Tunnel was completed, and no injury has resulted therefrom.

At the **CENTRE SQUARE ENGINE HOUSE** all the Carpenters work for the four corner rooms and the two lobbies is finished, excepting only the hanging of the sashes and window-shutters, and smoothing the floors. The work proper to be done in the Engine part of this house cannot well be fixed until the temporary reservoir is removed. The principal part of this work will be, to put linings to the windows; to make the necessary stairs and ladders up to the boilers; from thence to the spring-beam stages; and from thence to the permanent reservoir; together with such other small jobs as are generally found necessary at the last finishing of a building. The whole of the marble work at this house is completed. The plastering is also done, excepting in the eastern portico, which has only received one coat, and cannot be finished until next spring. Owing to some leakage and the dampness of the descending main, this part of the wall has hitherto been kept too wet to finish the plastering. Means have however been lately used to prevent this effect, by lining the wall next the main with lead, since which the wall appears to have dried considerably. The roofs, gutters and copper pipes, to convey the water from the roof, are all completed except fixing the copper pipes in the eastern portico. The pipes are prepared, and the building ready to be fixed.

The permanent Reservoir is ready for use; and the Committee, at a convenient time, will direct the water to be conveyed into it.

The new Boiler erecting in this house, under the direction of the Committee, and the expence of which is charged to Nicholas I. Roosevelt, might

have been finished before this time, if the smiths had not been obliged to quit that work, in order to prepare and fit up the hydrants, stop-cocks, and other work required for the distribution as it progressed. This work, since the laying of the pipes commenced, has employed almost the whole of their time. At present there is another forge erected on Centre-square, and the Boiler may be finished in about three weeks. This Boiler is constructed on a plan somewhat different from the one now in use, and of materials far superior. By these means it will be rendered much more durable and economical.

The DISTRIBUTION, which is now the principal part of the work requiring attention and expence, and which has hitherto been attended with many difficulties, appears to have progressed this season with every prospect of advantage and success. A lot has been procured on rent in the neighbourhood of Kensington, which with but little expence has been rendered very commodious for receiving the timber and retaining it in the water.

A contract has been made with Caleb Leach for boring, banding, and preparing ready for laying, twenty-five thousand feet of timber, *viz.*

About 7,000 feet of 6 inches diameter, at 13 cents per foot.

16,000 feet of 4½ inches diameter, at 10 cents per foot.

and 2,000 feet of 3 inches diameter, at 7 cents per foot.

He has erected his machinery for boring on the lot above-mentioned, and takes the logs out of the water to bore, and as soon as they are bored and prepared, delivers them again into the water, from whence they are hauled to the different parts of the city as required for laying or for repairs. The

works erected by the contractor for boring are of a construction different from those which have been heretofore employed, and, though he was later in commencing the work, than the time he contracted for, yet since they have been in operation, the execution of the work has been perfectly satisfactory. Of thirty thousand feet of timber purchased by the Committee and delivered on the lot, about twenty thousand feet have already been bored and laid in a part of the line of distribution advertised by the late Committee at the commencement of the season. No contract has been entered into for laying the pipes, it being conceived most economical to employ suitable persons and labourers at daily wages. The boring and laying are now progressing very fast, and there is good reason to believe that the whole quantity of twenty-five thousand feet, which the Committee were authorized to have bored and laid, may yet be completed this season. The mode now in use of connecting the pipe with a cast iron joint, and putting a strong band on each end, appears to answer perfectly well.

The Stop-Cocks have been inserted in all the new pipe laid this season, as laid down in the general plan or draft of the distribution, which was, last year, adopted by the Committee. Stop-Cocks have also been inserted in many parts of the old pipe, in which the necessary connection has been made agreeably to the above-mentioned plan.

A contract has been made with Foxall & Richards for the delivery of 600 connecting Cylinders, at \$80 per ton; 63 Stop-Cocks, at \$100 per ton, and 30 Hydrants, at \$100 per ton—all the Hydrants directed for this season, having been determined to

be made of cast iron. Fifteen are already erected, and several more are now fitting up, and some ready to be fixed. For the number of Houses, &c. supplied with the water, the Committee beg leave to refer to Document NO. 5, accompanying this Report....Other Documents are also annexed to this Report, viz.

No. 1. Exhibiting a statement of the expences incurred on account of the Water Works to the 1st of November, 1802—amounting, including the advances made to Nicholas I. Roosevelt for maintaining the Engines and erecting the new Boiler, to two hundred and sixty-six thousand six hundred and fifty-four Dollars and five Cents,—of which sum two hundred and forty-two thousand three hundred and fifty-nine dollars and sixty-three cents have been actually paid, and twenty-four thousand two hundred and ninety-four dollars and forty-two cents remain payable to sundry persons for materials, &c. furnished.

NO. 2. Is a list of the persons to whom the money owing is due.

NO. 3. Is a statement of the Sources from which the money paid has been received.

NO. 4. Is a statement of the Funds appropriated for the Works.

Several of the funds appropriated for the works, particularly the surplus taxes of 1800 and preceding years, and the balance of the corporate income for the year 1801, were found, on the settlement of the corporate accounts at the close of last year, to fall short of the amount originally calculated on; and from the last mentioned Document it will appear



that the actual engagements of the Committee are already nearly as great in amount as the balances of the different funds appropriated for the use of the works, excepting the balance which may be found due from Nicholas I. Roosevelt, on the adjustment of the accounts between the Corporation and him.

As the Committee are restricted from entering into engagements beyond the amount of monies appropriated, and as the season is arrived when the timber for the Pipe to be laid next year ought to be cut, Councils will perceive the propriety of authorizing the Committee to enter into contracts for that purpose. About thirty-five thousand feet would, in the opinion of your Committee, be sufficient to extend the distribution through all the thickly built parts of the city, and furnish also pipe enough for the repairs; and the whole may readily be accomplished during the next season: At which time your Committee have good reason to believe, from the advantages which have already been felt and acknowledged by those who have a supply of the water in their houses, many of the Citizens would take the water, and the Works begin to be productive. The lateness of the season when the laying commenced this year, and the desertion of the city on account of the sickness, have, no doubt, contributed to keep the number of houses now supplied so low as it is.

By the existing contract with Nicholas I. Roosevelt, which has been reported to Councils, he was bound to maintain both the Engines in fuel, attendance and repair at certain rates per annum, in proportion to the quantity of water daily required and delivered. The lowest rate for any quantity not exceeding one million of gallons per twenty-four hours, was six thousand dollars per annum. The

same contract contains a lease of the extra power of the Schuylkill Engine, the Schuylkill Engine-House, and certain lots contiguous thereto, for forty-two years, to commence within thirty days after the Engines should be completed and at work. The Engines are not yet fully completed according to contract. To render them so, an Index is necessary at the Centre-square Engine, by which the number of strokes made by the Engine, and the quantity of water delivered might be accurately ascertained.—An additional Boiler at each Engine was also necessary; and the working barrels of both pumps should be enlarged so as to render them capable of raising three millions of gallons in every twenty-four hours throughout the year. On these points, and respecting the lease, much negociation was had with Nicholas I. Roosevelt and his agent in the course of last year, and finally a different modification of his contract and lease was proposed, settled by the Committee, and submitted to Councils; but, by them, was not fully determined on. In the mean time the Committee continued to maintain the engines (excepting that since April last, the lower one has been maintained by Bollman & Co.) and to charge the expence thereof to Nicholas I. Roosevelt; which, including some other advances, has amounted to \$14,214 39. They have also proceeded in, and nearly completed the erection of an additional Boiler at Centre-square, which has cost three thousand seven hundred and thirty-one dollars and seventy-five cents, and is also charged to the account of Nicholas I. Roosevelt. The adjustment of this account and the proper fixing and settlement of the terms and conditions of the contract and lease will require and receive the early and close attention of your Committee. Both the existing contract and the proposed modification are

already in the possession of Councils; and the Committee will hereafter report on the terms upon which the same may be finally and equitably adjusted and settled.

SAMUEL WETHERILL,

Chairman of the Watering Committee.

Philadelphia, December 6th, 1802.

DOCUMENT—NO. 1.

Statement of Expences incurred on account of the Water Works, to the 1st of November, 1802; charged under the following heads, viz.

BASON, including the bason wall and sluice, cost	Dollars	22,856	99
CANAL, digging, walling and materials, cost		3,438	69
LOWER (or western) TUNNEL, cost		6,921	93
CANAL SLUICE, cost		2,264	43
WELL, in Schuylkill engine-house, cost		952	68½
SCUYLKILL ENGINE HOUSE, cost		11,277	65
UPPER (or eastern) TUNNEL, including the pump-chambers at each end, and filling the hollows made this season by the settling of the earth,		26,211	85½
Carried forward,		\$ 73,924	23

<i>Brought forward,</i>	<i>Dollars</i>	73,924	23
CENTRE SQUARE ENGINE HOUSE, exclusive of the carpenters wa- ges, cost		53,078	59
DISTRIBUTION, being all the expen- ces of distributing the water through the city, repairing leaks, &c.		46,375	44
SCAFFOLDS, &c. being the amount of scaffolding, shops, centres, lime houses, fences, tools, &c. and <i>all</i> the carpenters wages,		19,571	78
BUILDINGS, being the cost of mate- rials purchased for the use of both engine houses, each of which is hereafter to be charg- ed with its proportion,		2,110	4
SMITH'S WORK, being the wages of smiths, the expences of erecting forges, purchasing iron, coals, &c.		3,979	27
ENGINES, being the a- mount paid for two steam engines, as per contract, - - - \$30,000	00		
and sundry expences a- bout the pumps, -	1,855	32	
		<hr/>	
		31,855	32
ENGINE FRAMES, cost of timber u- sed about both engines, -		948	1
LIQUOR, supplied to the workmen,		1,004	74
CENTRE SQUARE, expence of im- proving the square, making cir- cular fence, levelling, planting trees, &c. - - -		1,281	44
		<hr/>	
<i>Carried forward,</i>		\$ 234,128	86
		<hr/>	

Brought forward, *Dollars* 234,128 86

SALARIES, being the amount of salaries which have arisen since the commencement of the work, viz.

3. Henry Latrobe, engineer, his compensation as per contract,	\$6,350 00	
John Davis, clerk of the works, his salary to 1st October, 1802,	3,252 00	
James Todd, his salary as secretary to the Committee, and accountant at the water works, till 1st October, 1802,	2,700 00	
Frederick Graff, paid him in 1799 for drawing and assisting generally,	372 75	
	<hr/>	12,674 75

INCIDENTAL EXPENCES, cost of stationary, advertising, printing water loan certificates, &c. travelling expences, making out water-tax books, drawing mortgages, contracts, &c.	- - -	1,904 30
	<hr/>	

Actual cost of erecting the works up to the 1st of November, 1802,	- - - -	\$ 248,707 91
	<hr/>	

Carried forward, *\$* 248,707 91

Brought forward, *Dollars* 248,707 91

In addition to the above Nicholas I. Roosevelt stands charged with expences incurred for maintaining the engines in fuel, attendance and repairs since the commencement of their operation, and for other expences,

also the expence of erecting the new boiler at centre square,

§ 14,214 39

3,731 75

17,946 14

Whole amount of the expences under the direction of the Watering Committee,

§ 266,654 00

Of the foregoing amount there has been drawn from the treasury, and paid in cash, as per the register book of certificates,

§ 242,359 60

And there is due to sundry persons for materials, &c. as per list of debts, being Document NO. 2,

24,294 40

§ 266,654 00

Besides the above debts there is due for plastering the centre-square engine house, about

§ 200 00

And for 6 weeks wages to the workmen, being from the 10th Sept. to the 21st October, inclusive,

1,271 49

§ 1,471 49

NO. 2.

*List of Debts owing on account of the Water Works,
November 1st, 1802.*

Keyser and Gorgas, for lumber,	-	§	112	23
George Plumsted, coals,	-	-	569	40
Jeremiah Piersoll & Co. iron,	-	-	372	9
John Lewis, wages,	-	-	4	51
William George, pipe timber,	-	-	88	55
Lane and Salter, gun borings for cement,	-	-	62	7
John Dunwoody, carting coals,	-	-	5	76
Samuel Briggs, boring pipe,	-	-	100	
Alexander Crawford, lime,	-	-	172	93
Woxall and Richards, iron castings,	-	-	277	17
J. Henry Latrobe, engineer, his com- pensation,	-	-	105	74
Richard Newsham, fitting boiler plank,	-	-	4	36
Abraham Sheridan, stone,	-	-	415	77
Thomas Barnet, turning,	-	-	41	87
Jonathan Knight, lumber,	-	-	609	29
Thomas Vickers, bricklayer,	-	-	840	95
James Cochran, digging pipe trench,	-	-	615	29
Rugan and Rhodes, liquor,	-	-	300	
Asa Ridgway, bricklayer,	-	-	722	75
Jacob Brown, iron,	-	-	525	67
James Todd, salary,	-	-	70	
Syneer Tyson, lime,	-	-	107	95
William Davis, cordage, &c.	-	-	756	71
Robert Haydock, lead, glazing, &c.	-	-	1,853	30
William Songster, Sunday's attendance at the works,	-	-	164	
Joseph and James Crukshank, stationary,	-	-	6	92
Thomas Dobson, - ditto	-	-	42	82
Elisha Fisher and Co. smith's vice,	-	-	9	56
Alexander Anderson, flannel,	-	-	2	28

Carried over,

C

Dollars, 8,959 94

Amount brought over, *Dollars, 8,959 94*

Hugh M'Ilvain & Co. tar,	- - -	2 00
John Hood, blocks,	- - -	6 84
Jeremiah Hornketh, bricks,	- - -	193 38
John Britton, coals,	- - -	674 46
Oliver Evans, plaster of Paris,	- - -	3 13
James M'Ilvain, stone,	- - -	490 60
Nicholas Esling, bricks,	- - -	598 99
William and Jac. Wayne, lumber,	- - -	371 81
James Rowland, iron,	- - -	323 48
Isaac Hazlehurst and Son, steel and dock rent,	- - -	444 44
Robeson and Paul, iron pipe,	- - -	128 62
John Elmslie, wages, and bills paid for smiths work,	- - -	150 14
John Davis, salary,	- - -	223 40
William Rice, carting,	- - -	30 63
John M'Ilvain, boating stone,	- - -	181 50
Estate of Peter Brady, marble work,	- - -	3,439 28
Richard Hill Morris, lumber,	- - -	75 75
Zachariah Poulson, jun. printing,	- - -	11 99
Henderson and Niblow, marble,	- - -	3,155 27
Moses Gillingham, plank for boilers,	- - -	338 38
Nathan and David Sellers, wire grates,	- - -	22 92
Rieloff Alberson, lumber,	- - -	119 28
Andrew Douglass, sheet iron for boiler,	- - -	1,121 22
William Young, coals,	- - -	473 83
Jacob Edenborn, soal-leather,	- - -	30 46
Davis and Doughty, logs for pipe,	- - -	1,044 72
Guier and Diehl, liquor for workmen,	- - -	107 30
William and Jon. Leedom, iron,	- - -	380 95
Henry Richards, ditto,	- - -	305 83

Carried over, *\$ 23,409 79*

Amount brought forward, - \$23,409 79

Caleb Leach, boring pipe,	-	-	741	74
John Russel, making bands for pipe,			121	29
Farnel and Picrie, soal leather,	-	-	8	18
Nicholas Mack, pipe carriage,	-	-	41	46
Isaac and William Paxson, ironmongery,			157	18
David C. Claypoole, printing,	-	-	14	21

Dollars, 24,493 85

deduct the following debts due to the water works, for materials and tools sold, viz.

John Miller, jun.	-	\$	2	10
Alexander Miller,	-	-	2	12
Henry Drinker, jun.	-	-	1	20
Caleb Lownes, overpaid,	-		4	
Permanent bridge company,			23	4
Bank of Pennsylvania,	-		60	50
Benjamin W. Morris,	-		7	25
James Flanagan,	-	-	38	00
Thomas Swann,	-	-	2	13
John Dunwoody,	-	-	13	00
James Smallman,	-	-	6	75
Jonathan Pilling,	-	-	2	87
Henry Pratt,	-	-	14	50
George A. Baker,	-	-	7	87
James Gibson,	-	-	14	10

199 43

Dollars, 24,294 42

NO. 3.

Statement of the Sources, from which the monies expended under the direction of the Committee for watering the City of Philadelphia, have been received—to November 1, 1802.

Amount received, as per report to Councils, October 1, 1801,	\$203,001 70	
Deduct then remaining in the hands of the treasurer, undrawn by the Committee,	67 81	
	<hr/>	202,933 89
<i>Water Loan</i> , since received and drawn, for		8,615 6
<i>Surplus of Taxes</i> of 1800 and preceding years, viz.		
Received Oct. 10, 1801,	\$976 45	
Ditto, August 28, 1802,	77 24	
	<hr/>	1,053 69
On account of appropriation NO. 13, of 1801 for meeting contract engagements for supplying the water, there has been drawn		4,185 73
Of a similar appropriation, No. 13, of 1802, there has been drawn		209 6
On appropriation No. 14, of 1802, for discharging the debts due on account of the water works, there has been drawn		2,341 94
On appropriation No. 15, of 1802, for completing the works, including the distribution, there has been drawn,		13,269 96
		<hr/>
<i>Carried over,</i>		\$ 232,609 89

Amount brought forward, **\$232,609 88**

Of the balance of the income of the
 corporate estate of 1801, there has
 been drawn, " " " **9,748 71**

Dollars, **242,358 59**

The above is the actual amount paid, and is 1
 dollar and 4 cents less than the amount drawn by
 the Committee.....This difference arises from a
 short payment of 1 dollar and 6 cents in paying 3
 certificates together, and an over payment of 2
 cents in another certificate.

NO. 4.

*Statement of Funds undrawn by the Watering Co.
mittee, November 1, 1802.*

Water Loan, to be received,	-	\$ 960 0
Surplus Taxes of 1800 and preceding years,	undrawn,	1,728 6
Appropriation NO. 13, of 1801, do.		3,214 2
Ditto No. 13, of 1802, do.		8,300 3
Ditto No. 14, of 1802, do.		5,659
Ditto No. 15, of 1802, do.		3,730
Balance of Corporate Income of 1801,	- - do.	920 9
Balance of Water Tax,	do.	1,141 7
		<hr/>
		\$ 25,655
Add Water Rent to be collected,	-	537
		<hr/>
		\$ 26,192
Amount of Debts, per list,	\$24,294 42	
6 weeks wages to workmen,	1,271 49	
Plastering Centre Square Engine House.	- 200 00	
		<hr/>
		25,765 91
		<hr/>
Surplus, on the 1st of November, 1802, after paying the Debts,	-	\$ 426 1
		<hr/> <hr/>

NO. 5.

*Number of Houses, &c. supplied with Schuylkill
Water, December 1, 1802.*

**Dwelling Houses, supplied for holders of Wa-
ter Rights.]**

Supplied on rent, viz.

Dwelling houses, a \$ 5 per annum,	305	00
Breweries, - 24 ditto.	96	00
ditto. - 58 ditto.	53	00
Small ditto. - 10 ditto.	10	00
Sugar Refineries, 20 ditto.	60	00
Stables, . 5 ditto.	15	00
Fountains, - 24 ditto.	48	00
Banking Houses, 10 ditto.	20	00
		<hr/>
	\$607	00

From which is to be deducted 14 Water
Rights held by those whose Manu-
factories, &c. are supplied, being
included above, - - - 70 00

Present Annual Rent, - - - **\$537 00**
