

## NOTE.

Printed copies of the Reports of the Watering Committee from November 13, 1806, to November 2, 1809, inclusive, and from November 7, 1811, to January 25, 1816, inclusive, were presented, June 15, 1898, to the Bureau of Water by the Historical Society of Pennsylvania. Hence, these Reports have not been type-written.

The following Report of the Watering Committee for the year 1810 is copied from a manuscript, bound, with printed copies of Reports of other years, in a volume loaned to the Bureau of Water, by the Historical Society of Pennsylvania, in 1898.

Opposite the manuscript is written, in pencil: "The Report for 1810 was never printed. I copied it from F. Graff's manuscript."

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Phila., June 15, 1898.

John C. Trautwine, Jr., Esq.,  
Chief Engineer of Water Department  
of the City of Philadelphia:

Dear Sir,

It affords our Society  
great pleasure to present you  
with copies of Reports of the Wa-  
-tering Committee to the Select  
and Common Councils of Phila-  
-delphia which we have in  
duplicate.

Yours truly,  
Gregory B. Heen,  
Librarian

# Department of Public Works,

BUREAU OF WATER,

Juniper and Filbert Sts.

DIRECTOR, THOS. M. THOMPSON.  
ASS'T DIRECTOR, HARRY W. QUICK.

JOHN C. TRAUTWINE, Jr.,  
*Chief.*

*Philadelphia,* June 21, 1898.

(COPY.)

The Historical Society of Pennsylvania,  
Mr. Gregory B. Keen, Librarian,  
Locust & Thirteenth streets, Philadelphia.

Dear Sir:

I beg to acknowledge, with many thanks, the receipt of copies of Reports of the Watering Committee for the years 1806 to 1816, inclusive (with the exception of the Report for 1810 which exists only in manuscript), as a gift from your Society to this Bureau.

This forms a most important contribution to our set of the earlier Reports, not one of these ten Reports having been in our possession hitherto.

Yours respectfully,  
(signed) JOHN C. TRAUTWINE, Jr.,  
Chief of Bureau.

*Printed copies of Reports of the  
Watering Committee, Nov. 13, 1806 to Nov. 2, 1809,  
inclusive, and Nov. 7, 1811 to Jan. 25, 1816, inclusive,  
presented to the Bureau of Water, Philadelphia, by the  
Historical Society of Pennsylvania, June 15, 1898.*

**REPORT**

OF THE

**WATERING COMMITTEE**

TO THE

**SELECT & COMMON COUNCILS,**

*November 13th, 1806.*

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*Published by order of Councils.*

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**Philadelphia:**

PRINTED BY JANE AITKEN, No. 62,  
NORTH THIRD STREET.

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1806.

REPORT

OF THE

# WATERING COMMITTEE

TO THE

SELECT & COMMON COUNCILS,

November 13th, 1806.

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Philadelphia:

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NORTH THIRD STREET.

1806.

# REPORT

OF THE

## WATERING COMMITTEE,

APPOINTED TO SUPERINTEND

THE

# WATER WORKS.

THE new cast iron boiler at the Centre Square engine has not met the expectations of the Committee. The cylinders, otherwise, the cast iron heaters, have bursted almost as soon as the boiler was put in operation. It appears, that this metal in its unwrought state cannot resist the heat required for raising the steam necessary. Two of the front heaters have necessarily been removed, for the purpose of replacing them with wrought iron ones. The iron is contracted for, the cost of which, with workmanship, will amount to \$ 380 00

The timber for the new leaver beam for the Centre Square engine has been received, and is now framing, and will be so far compleated, that whenever the old one becomes unfit for use, the iron work now on it can be immediately taken off and applied to the new beam; its great weight and bulk, and the contracted space of the building, when it is to be taken in, will require considerable scaffolding. The amount of which including the fixing the new beam, will be \$ 225 00

Part of the cedar plank for the new reservoirs of the Centre Square engine has been delivered; owing to the dry season the residue has not been cut, but is now expected. The estimate for the entire completion of them is \$ 2500 00

The purchase of the lease of the lower engine and extra power with the adjoining buildings has been effected; the boilers were found in such a bad state, that not only the bottoms are to be replaced; but a great number of the plates in the body of the one now finished were so much cracked, as to require new ones. The difficulty of procuring the wrought iron plates rolled to their proper sizes for the bottom has been overcome, though not without a greater expence than the Committee expected to obtain it, all which contributed to the increase of expenditure which this boiler required, and far above the estimate. Should the Councils approve of the removal of the western boiler, a considerable saving would take place, as the loss of steam at present is very great, owing to the distance it is carried through an iron pipe, which being exposed to the air causes a contraction and expansion, whereby the joints break, and a great portion of steam is lost before its arrival at the cylinder; this boiler must necessarily be repaired as all the cast iron plates of the bottom

are cracked and with difficulty have been kept tight by the application of a quantity of cement thrown in it, to the great detriment of the fire not having power to act fully upon the bottom. The only additional expence which would take place by its removal would be the foundation, which expence would soon be gained by the saving of fuel which is now lost, as the fire required is greater than necessary, did the boiler stand near the cylinder. The expence, together with the amount included for the completion of the one now in operation, will be

\$ 2700 00

Owing to the extra power of the lower engine having been granted to Nicholas J. Roosevelt, the pump barrel and fixtures for pumping of the water were probably made smaller than they otherwise would have been, they being only the size of those of the Centre Square engine, when the power of the lower engine is nearly one third greater, which is now lost. By the removal of the present pump barrel and its fixtures which is but 17 inches diameter, and a new one of 22 inches put in its place, with the valves increased in the like proportion, there is no doubt, but that with the same quantity of fuel and the same number of strokes of the engine, nearly one third of water would be gained; Mr. Smallman is of opinion it would have that effect, and has given an estimate of expence which would attend the alteration, of

\$ 1200 00

The 12000 feet of pipe timber contracted for last winter has been delivered in the log pond, where it has been bored by the Committee; of this quantity 10,856 feet has been laid, together with about 1100 feet of repairs, and there now remains on hand 1200 feet including some that remained from former contracts; this surplus of pipe is not sufficient for the occasional repairs of the winter and next spring, unless an equal number of the different bores now in the pond should be required, which event can hardly be depended upon; and as it is expected that some of the streets already improved and others increasing, the citizens of which will necessarily hope for a supply of the water, them and the repairs are calculated at 5500 feet, the amount of which will be

\$ 1000 00

All the streets where the distribution has been carried have been supplied with pumps and fire plugs, and unless an unexpected accident should happen the engines, the city cannot be wanting of a constant supply of water for the use of the citizens generally, and in cases of fire.

The boring mill has been removed to the lower engine from Kensington, and the pond given up on the first of October to its proprietors. The purchase of the mill with the patent right has proved a saving of \$ 853, in the quantity of pipe bored during the summer, calculating the value for boring per foot, the same as was formerly given to Caleb Leach. The shed which inclosed the machinery has been disposed of by appraisement, as it was in decay and not worth the removal of it to the wharf at Schuylkill, where a shed is contemplated to be built for the reception of the machinery, and a pond made for the safe keeping of the timber that may be purchased, the amount of which will be

\$ 400 00

A From experience it has been found, that a considerable saving is made by burning wood instead of coal at the lower engine; the reduced price of wood, and the quantities brought to market last spring, induced the purchase of that sort of fuel; a contract was entered into with Jeremiah Buck for the delivery of 509 cords of wood on the Schuylkill wharf at 4 dollars per cord, this with the quantity purchased before the contract was made will be sufficient to last until April next. The burning of coal would have increased the expence for the same time, nearly 5000 dollars. How long this mode can be continued must depend upon the quantity of wood exposed for sale, the current price in the market, and whether the consumption will not operate to the great detriment of the surrounding inhabitants and the citizens generally, should this policy be pursued, the wisdom of the Councils must determine for their interest, and direct their Committee how to act. That the price of coal does not bear an equal proportion with wood, is evident from the experiments made at the engines of both kinds of fuel.

B The purchase of the boring and turning Mill for iron and brass connected with the shaft of the fly wheel of the lower engine, has not proved fruitless, and has been used by some of the city mechanicks, for boring and turning of cast iron cylinders, which when the utility will be generally known, will produce other profits to the city, and lessen the expence of the works.

The sheds at the south east side of the Centre Square, now occupied by the mechanicks employed for the Water Works, will be removed early in the Spring to the lower engine. The useless materials and utensils shall be disposed of to the best advantage.

C The number of houses supplied with Schuylkill water amounts to 848, of which 318 are under water rights. Since the purchase of the lease of the lower engine, the expence accruing for its maintenance prompted the late Committee to raise the water rents, particularly those manufactories which from their great consumption of water were underated. This has been done from a conviction of the quantity of water used, and in justice to the public. The sums due for the water rent cannot be accurately stated, as the measures for ascertaining the same adopted by the late councils did not allow sufficient time to have them carried sooner into operation. They are however progressing and as soon as a list of those who are indebted for water rents can be made out with precision, they will be delivered to the collectors of the city tax to collect the same. The amount may be supposed at \$ 5050.

The sums remaining in the Treasury at the disposal of the Watering Committee amounted to \$ 2105 62 cents on the second of October last. This sum has been infringed upon already, since that time of \$ 1141 06, paid to the workmen employed at the distribution, the engines, the Eastern boiler of lower engine, &c. so that the balance left is insufficient to meet the daily demands of the works and the payment of the debts incurred, some of which have been contracted at an early period of the year. In order to carry the centre engine with fuel through the winter, three thousand bushels of coals are wanted, which are to be purchased immediately, as the close of the navigation may prevent the Committee procuring



them, except at an advanced price; your Committee therefore solicit the Councils to provide the necessary sums, by such means as their wisdom may suggest. The sum cannot be less than \$ 4200, which will be required to meet the late engagements and those until January next; at which time the Committee expect that the collection of the water rents will put them in a sufficient pecuniary situation, until the new appropriations are made.

The following schedule of orders for money drawn, has been examined by your Committee, upon the vouchers and receipts exhibited to them and found correct. The arrangement of the accounts will show, from their respective heads under which the abstract of payments have been made, that, of the last year's expenditures, 15886 dollars (sums paid to Nicholas I. Roosevelt for the lease, the purchase of all the buildings, sheds, inclosures, and the connections of the fly wheel for boring and turning of Cylinders &c. together with smith's shop, furnaces &c. deducted) amounts to 41737 dollars and 5 cents, and with 3024 dollars 52 cents outstanding debts; together 60647 dollars and 57 cents, which added to the sum reported last year, the total cost of the works will amount to 409,764 dollars 7 cents.

Your Committee beg leave to recapitulate at what the appropriations will amount, to carry on the Water Works this year and next.

1. Putting in new wrought iron heaters to the cast iron boiler to the Centre Square,	380 00
2. Putting up new leaver beam, labour, scaffolding and materials, at Centre engine,	225 00
3. Estimate for the new reservoirs, at the Centre engine,	2,500 00
4. Removing and rebuilding the western boiler of the lower engine, including new wrought iron bottom, and balance due for the one now in operation,	2,700 00
5. Putting in new working barrel and fixtures increased to 22 inches diameter at lower engine,	1,200 00
6. For 5500 feet of pipe timber for repairs &c.	1000 00
7. Buildings for boring mill, fixing the mill and making a pond for the timber,	400 00
8. For repairs of pumps, fire plugs, stop cocks &c. through the city,	500 00
9. For laying 5500 feet of pipe in repairs &c.	6050 00
10. Wages of Engine men, and repairs of engines,	3100 00
11. Salaries of the superintendant of the works, Secretary and Messenger of the Watering Committee,	1425 00
12. Fuel for the Centre engine 16800 bushels of coals at 30 cents delivered and measured,	5040 00
13. Ditto for the lower engine 1000 cords of wood at 4 dollars 44 cents measured and delivered,	4044 00
14. Debts due sundry persons, October 14th 1806,	3024 52
	31,588 52
From which deduct in the Treasury,	2105 62
Water rents due,	5050 00
Debts due the Water Works,	846 05
	8,001 67
Balance required to carry on the Water Works for this and next year, }	23,586 85

JAMES VANUXEM, Chairman.

Philadelphia, 4th. November 1806.

LIST OF CERTIFICATES

259

Or Orders for Money drawn by the

WATERING COMMITTEE,

From November 2d, 1805, to October 1806, inclusive

No.	Dates.		Dolls.	ct.
672	1805. Nov. 2	In favour of Frederick Graff, clerk of the Water-works.	986	40
673	Dec. 3	ditto	905	14
674		ditto	1951	78
675	10	ditto	1995	85
676	17	ditto	663	69
677	28	ditto	1203	84
678	1806. Jan. 3	ditto	832	67
679	28	ditto	736	75
680		ditto	373	81
681	Feb. 5	ditto	787	18
682	13	In favour of James Vanuxem chairman of Wg. Committee.	12000	00
683	March 3	In favour of Frederick Graff, clerk of the Water-works.	766	96
684		ditto	36	36
685		ditto	289	85
686	7	ditto	14	57
687		ditto	485	43
688		ditto	3000	00
689	April. 2	ditto	780	96
690		ditto	61	70
691	5	ditto	829	33
692		ditto	1922	36
693	10	ditto	355	34
694		ditto	2240	92
695	18	ditto	1358	47
696	25	ditto	2010	00
697		ditto	1700	00
698		ditto	29	75
699	May 2	ditto	895	40
700		ditto	1612	32
701	9	ditto	1689	95
702	23	ditto	2143	72
703	June 3	ditto	326	23
704		ditto	353	84
705		ditto	827	70
706	July 2	ditto	1314	28
707		ditto	228	73
708	August 2	ditto	1325	02
709		ditto	1409	21
710		ditto	529	00
711		ditto	842	52
712	18	ditto	1474	35
713	29	ditto	671	08
714	Sep. 1	ditto	1040	03
715	15	ditto	338	08
716		ditto	711	60
717	Oct. 2	ditto	814	19
718		ditto	465	03
719		ditto	291	66

\$ 57623 05

ABSTRACT OF PAYMENTS,

From the foregoing Orders, as follows:

OLD DEBTS.

NO.	1805.			Dolls.	ct.
674	Dec.	3	Caleb Leach in full for boring pipe	1505	07
			Peter Armbruster ditto for horse feed	27	48
			Frederick Graff ditto small bills paid by him	85	92
			Joseph Ker ditto for salary	66	66
			Joseph Pierson ditto for hay	23	49
675		10	Frederick Stillwaggon ditto for coals	561	41
			Samuel Richards and Co. ditto Iron Castings	300	00
676		17	Thomas Conarroe ditto for pipe timber	418	19
680	1806. Jan.	28	Thomas Mayberry ditto for iron	72	10
			Jonathan Knight ditto lumber	99	87
			John Poultney ditto ironmongery	13	02
			Godfrey Gebler ditto shoeing horses &c.	35	77
			William L. Smith ditto iron	25	20
			Jones and Kinsey ditto harness	4	75
			Evans and Williams ditto lumber	6	51
			Samuel Wetherill and Sons ditto paints and oil	39	45
			James Crukshank ditto stationary	9	95
			James Carman ditto spirits	67	19
692	April	5	Samuel Mifflin and Co. ditto iron	391	11
693		10	James Rowland ditto iron	7	34
694			Frederick Graff ditto Salary	471	89
			Samuel Richards and Co. ditto iron castings	1053	18
695		18	William Davis and Co ditto chandlery	138	10
			Estate of Nicholas Esling ditto bricks	54	00
			Robert Haydock ditto Lead	47	02
700	May	2	Ludlam and Voight ditto lead work	196	80
			Jacob Edenborn ditto leather	59	12
			James Cochran on account digging pipe trenches	100	00
701		9	James Cochran ditto ditto	130	00
702		23	James Cochran ditto in full for ditto	1188	94
703	June	3	Richard Penn's estate ditto rent of log pond	70	00
710	August	2	Shields and Powell ditto lumber	28	24

Amount carried forward \$ 7297 77

# DISTRIBUTION.

261

Amount brought forward, Dollars 7297 77

				Doll.	ct.
672	1805. Nov. 2	Monthly wages for October, carpenters	94 56		
		smiths ditto	281 56		
		Men at distribution	397 79		
				773	91
673	Dec. 3	Monthly wages for November, carpenters	97 03		
		smiths ditto	211 17		
		Men at distribution	327 63		
				635	83
674		Caleb Leach in full for boring pipe	-	223	85
		Joseph Pierson ditto for hay	-	19	31
675	10	Robeson and Paul ditto cast iron pipe	-	1003	52
676	17	Thomas Conarroe on account of 2918 feet pipe timber	-	166	00
678	1806. Jan. 3	Monthly wages for December, carpenters	97 95		
		smiths ditto	161 83		
		Men at distribution	276 23		
				536	01
679	28	J. and N. Roberts in full for copper balls	-	123	50
		Blaksly Barns ditto old copper and lead	-	140	02
		Peter Armbruster ditto for horse feed	-	70	00
		Thomas Conarroe ditto for pipe timber	-	100	00
		Frederick Graff ditto sundry small bills	-	63	79
681	Feb. 5	Monthly wages for January, carpenters	84 72		
		smiths ditto	246 57		
		Men at distribution	206 97		
				538	26
683	March 3	Monthly wages for February, carpenters	68 67		
		smiths ditto	224 22		
		Men at distribution	209 08		
				501	97
684		Frederick Graff in full for sundry small bills	-	36	36
685		Frederick Graff ditto ditto	-	10	36
686	7	Thomas Conarroe on account of pipe timber	-	14	57
687		Thomas Conarroe ditto ditto	-	485	43
689	April 2	Monthly wages for March, carpenters	101 33		
		smiths	314 13		
		Men at distribution	204 12		
				619	58
693	10	Peter Armbruster in full for horse feed	-	62	39
		James Rowland ditto for iron	-	77	44
		Frederick Graff ditto sundry small bills	-	67	03
694		Joseph Pierson ditto for three loads of hay	-	64	27
		Nicholas Mack ditto wheel right work	-	1	60
695	18	John Poultney ditto ironmongery	-	90	28
		Thomas Conarroe ditto for pipe timber	-	847	20
		Henry Bell ditto for lumber	-	95	25
696	25	Frederick Graff ditto small bills	-	43	90

Carried forward \$ 7411 63

C

No.	Dates.		Amount brought forward	Doll.	ct.
	1806.			7411	63
699	May 2	Monthly wages for April	carpenters 98 92 smiths ditto 314 01 Men at distribution 170 39		
				583	32
700		Samuel Richards and Co. in full for iron castings		368	82
		Thomas Conarroe ditto for 2896 feet 6 inches of timber		477	92
		Ludlam and Voight ditto for lead work		99	00
		Jacob Edenborn ditto for leather		49	25
702	23	Frederick Graff ditto sundry small bills		169	90
703	June 3	Estate of Richard Penn ditto rent of log pond		50	00
		John Evans ditto for lumber		36	68
		Henry Bell ditto ditto		37	29
		Peter Armbruster ditto for horse feed		46	66
704 and 705		Monthly wages for May,	carpenters 105 65 smiths ditto 278 02 Men at distribution 395 52		
				779	19
706	July 3	Monthly wages for June,	carpenters 82 70 smiths ditto 188 77 Men at distribution 578 34		
				849	81
707		Frederick Graff in full sundry small bills		73	12
708	Aug. 2	Monthly wages for July,	carpenters 108 99 smiths ditto 200 79 Men at distribution 536 57		
				846	35
710		Shields and Powell in full for lumber		36	89
		J. and N. Roberts ditto for copper balls		127	50
		Henry Bell ditto for lumber		75	54
		Thomas Mayberry ditto for iron		142	16
		Joseph Pierson ditto for hay		34	23
		Peter Armbruster ditto for horse feed		38	58
711		John Poultney ditto for ironmongery		67	31
		Frederick Graff ditto sundry small bills		94	56
712	18	Jonathan Knight ditto for lumber		42	02
714	Sept. 1	Monthly wages for August,	carpenters 66 52 smiths ditto 204 24 Men at distribution 305 99		
				576	75
715	16	John Evans in full for lumber		53	33
		Jones and Howell ditto for iron		157	35
717	Oct. 2	Monthly wages for September	carpenters 68 35 smiths ditto 161 03 Men at distribution 152 76		
				382	14

Carried forward \$ 13707 30

Amount brought forward, Dollars 7297 77

No.	Dates. 1806.		Amount brought forward	Dolls.	ct.
				13707	30
718	Octr. 2	Frederick Graff in full small bills	- -	106	45
		Godfrey Gebler Jun. ditto shoeing horses, &c.	- -	41	43
		Edmund Kinsey ditto for harness	- -	7	41
		John Poultney ditto ironmongery	- -	15	31
		Thomas and Farr ditto wheel right work	- -	36	39
		Peter Armbruster ditto horse feed	- -	5	73
		Jacob Edenborn ditto for leather	- -	47	37
		Henry Bell ditto for lumber	- -	64	16
		Shields and Powell ditto for lumber	- -	22	72

14054 27

## CAST IRON BOILER.

	1805.			Dolls.	ct.
672	Novr. 2	Monthly wages of men	for October	65	25
673	Decr. 3	ditto	for November	113	25
678	1806 Ja 3	ditto	for December	140	12
679	28	Frederick Graff sundry small bills	- -	7	50
681	Feb. 5	Men at boiler	for January	53	00
683	March 3	Men at ditto	for February	81	62
685		Frederick Graff sundry small bills	- -	9	72
695	April 18	Jeremiah Hornketh in full for bricks	- -	82	75
700	May 2	Samuel Richards and Co. ditto iron castings	- -	128	73
710	Aug. 2	J. and N. Roberts ditto for copper pipes	- -	4	78

686 72

## NICHOLAS J. ROOSEVELT,

*Working Center Square Engine.*

	1805.			Dolls.	ct.
672	Novr. 2	Engine men	for October	116	24
673	Decr. 3	ditto	for November	126	06
675	10	Captain Town in full for 418 bushels coals at 31 cts.	- -	130	92
677	28	William Harper ditto for 3432 ditto at 32 1-2	- -	1115	40
		David Irving ditto for measuring ditto at 33 1-3	- -	11	44
		James Mooney ditto for hauling ditto at \$2	- -	68	64
	1806.	James Mooney ditto for hauling 418 bushels ditto	- -	8	36
678	Jany. 3	Engine men	for December	125	54
679	28	William Arrentreu ditto for Candles	- -	24	75
		Frederick Graff sundry small bills	- -	107	19
681	Feby. 5	Engine men	for January	71	24

1905 78

Amount carried forward, \$ 23,944 54

# INCIDENTAL EXPENCES.

Amount brought forward, Dollars 23944 54

No.	1806.		Doll.	ct.
693	April 10	Zachariah Poulson in full advertising &c.	63	49
702	May 23	Frederick Graff sundry small bills	2	30
707	July 3	Frederick Graff ditto	6	50
711	Aug. 2	John Rayfield in full for his attendance	100	00
719	Octr. 2	Thomas Bradford ditto for advertising	6	66
		James Crukshank ditto for stationary	22	73
		Samuel Relf ditto for advertising	52	66

254 34

## IMPROVING CENTRE SQUARE.

No.	1805.		Doll.	ct.
672	Novr. 2	Monthly wages for October	31	00
673	Decr. 3	ditto for November	30	00
678	1806 Ja 3	ditto for December	31	00
681	Feb. 5	ditto 1806 January	31	00

123 00

## SALARIES.

No.	1806.		Doll.	ct.
679	Jan. 28	Joseph Ker on account of salary	100	00
692	April 5	ditto ditto ditto	100	00
694	10	Frederick Graff in full his salary	281	00
711	Aug. 2	Joseph Ker account of salary	100	00
719	Oct. 2	ditto ditto in full his salary	100	00

681 00

## BORING MILL.

No.	1806.		Doll.	ct.
696	April 25	Frederick Graff sundry small bills	51	00
697		Caleb Leach on account of purchase of the mill	1700	00
698		ditto ditto in full for boring mill	29	75
699	May 2	Men at boring logs for April	52	02
703	June 3	Peter Armbruster in full for horse feed	19	90
705		Men at boring for May	127	45
706	July 3	Men at ditto for June	118	27
708	Aug. 2	Men at ditto for July	119	92
710		Joseph Pierson in full for hay	13	86
		Peter Armbruster ditto for horse feed	27	22
714	Sept. 1	Men at boring for August	107	43
718	Octr. 2	Frederick Graff sundry small bills	29	92

2396 74

Amount carried forward, \$ 27,399 62

# LOWER ENGINE.

Amount brought forward, Dollars 27399 62

No.	1805.		Dolls.	ct.
676	Decr. 17	John Young, in full Sheriff's officer 53 days	79	50
681	1806 Fe 5	Engine men for January 1806	28	87
682	13	Nicholas J. Roosevelt, purchase of lease &c.	12000	00
683	March 3	Engine men for February	78	37
685		Frederick Graff sundry small bills	35	12
		Peter Evans in full for 36 3-4 cords of wood	167	01
		James Mooney ditto hauling 15 3-4 ditto	6	30
688	7	Nicholas J. Roosevelt ditto purchase of lease &c.	3000	00
689	April 2	Engine men on account for March	23	54
		ditto in full for ditto	61	70
			85	24
692	5	Samuel Mifflin and Co. in full for 18 days pumping	147	96
		Hamill and Pierce do. for 280 bu. coals and measuring	76	53
693	10	Frederick Graff sundry small bills	49	01
694		James Mooney in full hauling 44 1-2 cords of wood	44	50
		Robert Mercer ditto for 44 1-2 cords wood &c.	160	78
696	25	John Patterson ditto for 51 3 4 ditto &c.	193	73
		Frederick Miley ditto for hauling 20 1-2 cords do. &c.	20	50
		John Hains ditto for 40 1-2 cords wood &c.	194	17
		Douglass Saint ditto for 65 1-4 ditto &c.	312	83
696	April 25	Robert Mercer ditto for 96 1-8 ditto &c.	341	09
		James Mooney ditto hauling 108 5-8 cords ditto	95	11
		Frederick Graff sundry small bills	116	42
699	May 2	Engine men for April	147	57
700		Samuel Richards in full for iron castings	25	93
701	9	James Mooney ditto for hauling 81 3-4 cords wood	81	75
		Douglass Saint do. 60 cords wood, hauling & wharfage	287	58
		Robert Mercer ditto for 81 3-4 cords of wood &c	310	19
702	23	Frederick Miley ditto for hauling 50 cords wood	50	00
		Jeremiah Buck ditto for 100 cords of wood &c.	369	00
		Frederick Graff sundry small bills	176	81
703	June 3	James Mooney in full hauling 86 1-8 cords of wood	65	70
705		Engine men for May	85	24
706	July 3	ditto for June	81	13
707		Frederick Graff sundry small bills	113	65
708	Aug. 2	Engine men for July	85	24
709		James Mooney hauling 401 1-2 cords of wood	158	20
		Jeremiah Buck on account of 500 cords of wood	400	00
711		John Poultney in full for ironmongery	20	53
		Frederick Graff sundry small bills	39	35
712	18	Jeremiah Buck on account for 509 3-4 cords of wood	776	00
		James Mooney in full hauling 77 1-4 cords of wood	30	30
714	Sep. 1	Engine men for august	85	24
715	16	Jeremiah Buck in full for 509 3-4 cords of wood at \$ 4	839	00
717	Oct. 2	Engine men for September	82	50

Amount carried forward, \$ 21,543 95

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No.	1806.		Amount brought forward,	Dolls.	
			21543	95	
718	Oct. 2	Frederick Graff sundry small bills	-	74	81
719		William Arrentreu in full for candles	-	4	27
		Peter Evans ditto for cording wood	-	8	33
		William Weir ditto for a barrel of oil	-	14	04
				<u>21645</u>	40

### LOWER ENGINE HOUSE.

No.	1806.			Dolls.	
691	April 5	Nicholas J. Roosevelt purchase of buildings on acct.		829	33
692		ditto in full ditto		56	67
				<u>886</u>	00

### LOWER ENGINE BOILER.

No.	1806.			Dolls.	
705	June 3	Men at boiler for May	-	73	42
706	July 3	Men at ditto for June	-	141	32
708	Aug. 2	Men at ditto for July	-	145	65
711		Frederick Graff sundry small bills	-	13	63
		Mark Richards for sheet irod for bottom	-	360	61
713	29	Rumford and Abijah Dawes in full for 4 3 21 sheet iron	-	59	25
714	Sept. 1	Men at boiler for August	-	142	75
717	Octr. 2	Men at ditto for September	-	184	25
718		Frederick Graff sundry small bills	-	13	33
719		Peter Bob in full for fire bricks and clay	-	54	00
				<u>1188</u>	21

### CENTRE SQUARE ENGINE.

No.	1806.			Dolls.	
681	Feb. 5	Engine men for January	-	64	81
683	March 3	ditto for February	-	105	00
685		Frederick Graff sundry small bills	-	61	34
689	April 2	Engine Men and repairs to ditto March	-	137	84
692	5	Hamill & Pierce in full for 2394 bu. coals & measuring	-	654	36
		Richard Weeks ditto for 1690 ditto	-	495	73
693	10	William Arrentreu ditto for candles	-	21	33
		Frederick Graff sundry small bills	-	7	31
694		James Mooney haul. 19 1-2 cords wood & 4008 b. coals	-	95	78
		Robert Mercer in full for 19 1-2 cords of wood &c.	-	67	92
695	18	John Poultney ditto for ironmongery	-	3	87
696	25				
				<u>1715</u>	29

Amount carried forward, \$ 1715 29

No.	Dates.		Doll.	ct.
		Amount brought forward	1715	29
696	April 25	Robert Mercer in full for 6 cords wood at \$ 3 75	22	50
		James Mooney ditto hauling 6 cords ditto 4 50		
		ditto 1200 bushels coals - - - 24 00		
			28	50
		James Hand in full for 650 bushels coals at 27	175	50
		Luke Jacobs ditto for 1500 ditto at 27 1-2	412	50
		Frederick Graff sundry small bills - - -	2	25
699	May 2	Engine men for April - - - - -	112	49
700		Samuel Richards and Co in full for iron castings	20	75
		Thomas Conarroe ditto for new leaver beam -	86	00
701	9	John Patterson on account of 67 1-4 cords of wood &c.	225	18
		Samuel Mifflin in full for 500 bushels coals -	151	67
		Elijah Ireland ditto for 1688 bushels ditto - -	469	82
		James Mooney ditto for hauling 1688 bushels coals	33	76
702	23	John Patterson ditto for 67 1-4 cords of wood -	30	00
		Frederick Miley ditto for hauling 67 1-4 cords of wood	50	43
		Frederick Graff sundry bills - - - -	106	34
705	June 3	Engine men for May - - - - -	116	24
706	July 3	ditto June - - - - -	123	75
707		Frederick Graff sundry bills - - - - -	35	46
708	Aug. 2	Engine men for July - - - - -	127	86
709		James Mooney hauling 2840 bushels coals and wood	60	55
		Recompence Badcock 2840 b. coals at 27 1-2 & measg.	790	46
711		John Poultney in full for ironmongery and emory	20	53
		Frederick Graff sundry bills - - - - -	26	00
712	18	Jeremiah Buck in full for 6 cords of wood -	24	00
		Samuel Harbett ditto for 1990 bu. coals and measuring	563	83
		James Mooney ditto for hauling 1990 bushels coals	38	20
713	29	John Dorsey ditto for 2021 bushels coals and measuring	572	61
		James Mooney ditto for hauling 1961 bushels coals	39	22
714	Sep. 1	Engine men for August - - - - -	127	86
717	Oct. 2	Engine men for September - - - - -	165	30
719		William Arrentreu in full for candles - - -	14	93
		William Wejr ditto for a barrel of oil - -	14	04
			6503	82

\$ 57623 05

# ABSTRACT OF PAYMENTS

*Made by the Watering Committee from October 7th,  
1805 to October 14th, 1806 inclusive.*

		Dolls.	ct.
Debts left unpaid October 7, 1805.	-	7297	77
Distribution, wages of workmen, laying pipes, digging pipe trenches, setting pumps, fire plugs &c.	7623 12		
Materials	3814 43		
Iron pipe	1003 52		
Logs for pipe	1613 20		
	14054	27	
New Boiler (Cast Iron)	-	686	72
Nicholas J. Roosevelt, maintenance and working Centre Square engine, including wages, coals and materials chargeable to him, to January 20th, 1806	-	1905	78
Incidental expences, stationary, advertising &c.	-	254	34
Improving Centre Square	-	123	00
Salaries	-	681	00
Boring mill, purchase of ditto and boring pipe	-	2396	74
Lower engine, purchase of lease &c. maintenance and working engine, including wages, fuel, and materials from January 20th, 1806	-	21645	40
Lower engine house, purchase of out buildings connected with the engine house from Samuel Mifflin and Co.	-	886	00
Lower engine boiler, rebuilding and putting a new wrought Iron bottom to ditto	-	1188	21
Centre engine, maintenance, and working Centre Square engine, includ- ing wages, coals and materials, from January 20th, 1806.	-	6503	82
		\$ 57623	05

# EXPENCES

*Incurred in 1806 including the sums paid and due.*

	Dolls.	ct.	
Old debts due October 7th, 1805			7297 77
Distribution	15806	20	
New cast iron boiler	686	72	
Nicholas J. Roosevelt, maintenance of Centre engine	1905	78	
Incidental expences	263	00	
Improving Centre Square	123	00	
Salaries	1157	00	
Boring mill, Purchase of ditto &c.	2396	74	
Lower engine, Purchase of Lease &c.	21716	06	
Lower engine house	886	00	
Lower engine boiler	1567	06	
Centre Square engine	6719	73	
Centre Square engine house	122	51	
			<u>53349 80</u>
Amount paid by Committee	57623	05	
Debts due October 14th, 1806	3024	52	
			<u>\$ 60647 57</u>

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# LIST OF DEBTS,

*Due on Account of the Water Works Oct. 14th, 1806.*

	Doll.	ct.
Mark Richards, for iron	508	28
Frederick Graff, salary	476	00
Thomas Conarro, cedar plank	111	00
Peter Brady's estate, marble work,	122	51
Ludlam & Voight, lead work	215	03
Samuel Richards & Co. iron castings	953	02
Richard Penn's estate, rent of log pond	70	00
Elisha Clarke, spirits	261	99
Samuel Wetherill & Son, paints, oil, &c.	138	76
William Davis & Co. chandlery	125	02
Zachariah Poulson, Printing	4	33
Mackie & Graff, Candles	34	25
Samuel Relf, Printing	4	33

3024 52

# LIST OF DEBTS,

*Due the Water Works, October 14th, 1806.*

	Paid in the Treasury.		Debts Due.	
Joseph Hardy's estate for laying pipe			192	37
Isaac Hazlehurst ditto			85	09
George Plumsted's estate ditto			3	10
Doctor James Mease old pipe			20	25
Isaac white old timber	4	96		
Bank of Pennsylvania ditto &c.			60	50
Thomas Leiper old bands			18	18
Benjamin W. Morris ditto			7	25
James Flanagan old lumber	10	25	27	75
Henry Pratt old pipe			14	50
David Scott ditto	5	06		
Philip Wager ditto			3	25
Moore Wharton ditto			42	94
Benjamin Nones a brass screw			2	00
Thomas Parker old pipe &c.			7	26
Permanent Bridge Company old lumber &c.	48	04		
Alms House laying pipe &c.	102	94		
Thomas Amies old pipe	12	00	10	45
Robert Morris ditto			9	00
Doctor Norgrove ditto			1	87
James Smallman old lumber &c.	108	76		
Thomas Dixey ditto	15	69	40	12
Jonathan Dehaven ditto	4	75		
Hugh Henry ditto			1	25
City Commissioners ditto			70	12
John Dolman ditto	8	06		
Samuel Wetherill and Sons fire bricks			4	00
John Snider old pipe	2	47		
John Thawburn ditto	30	56		
John Brown old building at Schuylkill			30	00
William Arrentreu ashes			15	60
John Welsh old stop cock			10	50
John Howard Gutter stone			1	50
Jacob Gawn cuttings of timber	23	00		
William Levis for a brass cock			8	00
Samuel Wheeler boring cylinders			24	28
Mackie and Graff ashes			74	92
J. B. Satori brass cylinder	86	35		
Cash for 3 horses				
Sorrell	11	55		
ditto	43	00		
Bay	50	00		
	104	55		
Thomas Conarroe Boring Mill Sheds			60	00

Amount paid in the Treasury, Dollars 567 44

Balance due the Works, Dollars 846 05

# LIST OF DEBTS

Due the Water Works, October 1<sup>st</sup> 1866

Debit	Credit	Balance	Particulars
		60 00	Thomas Conner Boring Mill Sheds
		50 00	Bay
		43 00	ditto
		11 52	Sorell
		66 32	Car for 3 horses
		74 92	Black and Coal
		24 28	Black and Coal
		9 00	Black and Coal
		22 00	Black and Coal
		1 30	Black and Coal
		10 50	Black and Coal
		13 60	Black and Coal
		30 00	Black and Coal
		30 58	Black and Coal
		47 30	Black and Coal
		4 00	Black and Coal
		70 12	Black and Coal
		1 87	Black and Coal
		9 00	Black and Coal
		10 42	Black and Coal
		102 91	Black and Coal
		48 04	Black and Coal
		7 28	Black and Coal
		2 00	Black and Coal
		2 00	Black and Coal
		43 24	Black and Coal
		3 22	Black and Coal
		5 00	Black and Coal
		14 20	Black and Coal
		27 78	Black and Coal
		7 82	Black and Coal
		13 12	Black and Coal
		60 50	Black and Coal
		4 30	Black and Coal
		20 22	Black and Coal
		3 10	Black and Coal
		85 00	Black and Coal
		102 37	Black and Coal

Amount paid in the Treasury, Dollars 607 44  
 Balance due the Works, Dollars 846 02