

Philadelphia, January 23, 1933.

ANNUAL REPORT - 1932

During the year the activities of the Bureau have generally been directed to maintenance of the water supply. Several breaks on 48 inch water mains caused interruption to service and considerable damage resulted to property adjacent to the bursting mains.

There has been an average daily consumption throughout the City of 304 gallons, making a per capita rate of 154 gallons per day.

The quality of water was of high integrity, the typhoid death rate being 1.31 per 100,000 inhabitants.

The activities of the various branches of the Bureau follow in sequential order:

River Patrol

Continued observation was maintained on industrial plants and tributary streams, both of which may contribute in harmful measure to the rivers from which the water supply is pumped.

Intakes: Heavy and extensive sediment deposits are creating dangerous conditions at the Intakes of the Shawmont and Belmont Pumping Stations.

Pumping Stations

All the pumping stations have functioned in a satisfactory manner and no serious troubles have been experienced at either the electric power or steam driven stations.

At the Belmont Station work upon the installation of Cone Check valves upon discharge mains was completed. The roof of the old boiler room was removed and much labor has been engaged on the clearing of obsolete equipment surrounding the station.

A concrete floor has been completed on basement and engine room levels and the interior of pump room has been prepared for the completion of tile flooring.

At the Shawmont Station there has been removed two (2) old steam driven snow pumps - the foundations excavated and the work of placing floor over this area is well under way.

Better control of the discharge mains has been effected by placing Cone check on the loop in basement.

At the Lardner's Point Pumping Station a series of experiments is being conducted on valves set on the pump decks of the 20 m.g. vertical triple units and different types of keys are under test on the stokers under boilers.

The various High Service Stations at Roxborough, Chestnut Hill, Belmont and Torresdale have operated efficiently.

Filters

The filter plants have functioned regularly but the heavy silt deposits in the Schuylkill River at the Shawmont and Belmont Intakes is imposing an increasing burden upon the respective filter stations.

At Queen Lane and Belmont the chlorine application is now partly made from one (1) ton containers reducing the cost of purchase to a considerable extent.

Distribution

Added to the Distribution System during the year were

- Six (6) miles of pipe.
- Total of all sizes 2465 miles.
- 132 fire hydrants added
- Total number of fire hydrants 20,269.
- 539 gate valves added
- Total number of gate valves 49,283

A 2167 foot section of 48 inch cast iron pipe on Broad street from Arch to Wood and on Wood street from Broad to 15th streets was removed and the same size steel pipe relaid.

In the High Pressure Fire System there now are in service

- 63.34 miles of pipe
- 1070 fire hydrants
- 1872 gate valves.

A section of cast iron flange fire main on Broad street from Arch street to Race was replaced by cast iron Universal Joint main.

At the Race and Delaware ave. Station a new pump discharge main was installed. The volume of water used for fire for the year was approximately 6,562,000 m.g.

Meters

The total number of metered services is one hundred ninety seven thousand five hundred and forty-five (197,545) an adjustment and revision of figures reducing the total given during the previous year.

Repairs were made to fourteen thousand three hundred and sixty-three (14,363) meters of which three thousand six hundred and ninety (3,690) were repaired on the premises.

Revenue - 1932

There has been returned \$6,464,050.64 contributed from the following sources:-

Water Rents:

Flat Rates -

Fixtures - Current	\$2,329,845.24	
" Delinquent	<u>391,510.64</u>	
		\$2,721,355.88

Meter Rates -

Meters - Current	\$3,257,060.52	
" Delinquent	<u>361,431.30</u>	
		\$3,618,491.82
Water Pipe Searches		1,654.50
Frontage - Water Pipe		31,109.17
Specials		3,868.25
Meter Repairs		48,599.68
New Services		8,672.00
Miscellaneous		<u>50,299.34</u>

\$6,464,050.64

Disbursements - 1932

Salary and Wages	\$1,046,851.05	
Material & Equipment	1,213,572.32	
Additions & Betterments	<u>144,863.08</u>	
		\$2,405,286.45

Debt - 1931 - \$36,443,753.00

Interest av'g - 4 1/2%	\$1,548,859.50	
Depreciation	<u>1,856,934.38</u>	
		\$3,405,793.88

Sinking Fund	<u>323,250.06</u>	
		<u>\$3,729,043.94</u>

\$6,134,330.39

In favor of Revenue - Balance \$329,720.25

This total is the result of applying Debt of 1931 to income and peration of 1932.

Improvement Work

Lardner's, Point:-

Pump valve installation  
Stoker keys installation

Belmont:-

Floor - Basement and Engine Room levels  
Installation of Cone Checks on Discharge Mains  
Demolition of Boiler Room Roof

Filters

Queen Lane and Belmont:-

Introduction of one (1) ton cylinders for chlorine application.

Distribution

Pipe Lines:- Broad street, replacing section of 48 inch cast iron with 48 inch steel pipe.

Several installations of small mains for outlying sections and replacements for better circulation in areas of short water supply.

High Pressure System

Replacement on Broad street of flange cast iron pipe with Universal cast iron pipe.

Replacement of 20 inch discharge main at Delaware Avenue and Race Street Station.

Shawmont - New section of concrete floor laid.

FILTERS

Torresdale - New wash water line to final filters laid from State Road.

Belmont - New oil heating plant installed in administration building.

Roxborough - Introduction of one (1) ton cylinder for chlorine application.

IMPORTED LABOR -

During the last month there has been assigned at various locations laborers from State and Federal sources.

The groups of men are employed on -

- Painting of fire hydrants
- Gate valve survey
- Removal of earth load on large express mains
- Recovery of cast iron pipe in abandoned water mains
- Razing walls of useless structures
- Grading and safeguarding slope of reservoir
- Reconditioning filter beds
- Clearing areas of dead trees on filter plants
- Transcribing pipe records from old books to cards
- Transcribing valve records to cards.