

**PUBLIC DOCUMENT NO. 45, TWELFTH
ANNUAL REPORT OF THE BOARD OF
METROPOLITAN SEWERAGE
COMMISSIONERS, FOR THE YEAR
ENDING SEPTEMBER 30, 1900**

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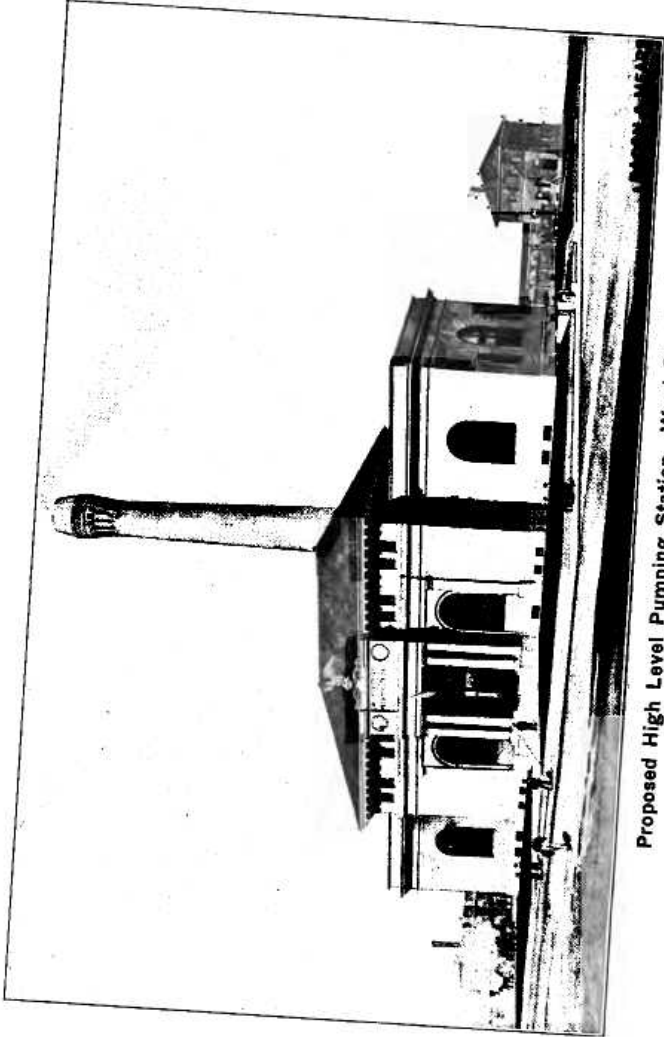
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Proposed High Level Pumping Station. Ward St., Roxbury.

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TWELFTH ANNUAL REPORT

OF THE

BOARD

OF

METROPOLITAN SEWERAGE

COMMISSIONERS,

FOR THE

YEAR ENDING SEPTEMBER 30, 1900.

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Commonwealth of Massachusetts.

To the Honorable the Senate and the House of Representatives in General Court assembled.

The Board of Metropolitan Sewerage Commissioners, created by chapter 439, Acts of 1889, respectfully submits its report for the year ending Sept. 30, 1900, being its

TWELFTH ANNUAL REPORT.

The work of the Board during the past year has consisted of: (1) construction of the high-level sewer authorized by chapter 424, Acts of 1899, including the preparation of studies, surveys and estimates, and the acquisition of rights of way; (2) the necessary engineering work connected with the letting of contracts for the Wakefield extension and the Chelsea and Everett relief sewers, respectively authorized by chapters 172 and 184, Acts of 1900; (3) maintenance and operation of the completed North Metropolitan, Charles River and Neponset valley systems, consisting of about 70 miles of trunk sewers, 4 pumping stations and other appurtenances.

At the date of its last report the Board was just entering upon the constructional work for the high-level sewer. Contract plans for 4 sections of the work had been prepared and advertisements for bids published. During the year work on this system has been prosecuted vigorously, and at the date of this report construction on 9 contract sections, having a total length of about 5 miles, is in progress. The necessary plans, drawings, calculations and studies for many other sections have been made, in anticipation of an early letting. A site for a pumping station on Ward Street, Roxbury, has been purchased. Plans have been prepared for the buildings, foundations and connections, and much study given to the equipment of the station. Contracts have also been made for the construction of two sections of the Chelsea and Everett relief sewers, and the Wakefield extension will shortly be placed under contract.

The amount of sewer construction now in progress is greater than at any previous period in the history of the Board, and a still larger amount of work is contemplated for the ensuing year.

The completed sewerage systems have been maintained economically and satisfactorily. The additions to the existing plants at Deer Island, East Boston, Charlestown and Alewife Brook pumping stations, authorized by chapter 424, Acts of 1898, have been installed, and at the three stations first mentioned are in satisfactory operation.

Your attention is respectfully invited to the appended report of the Chief Engineer, and the tables following in connection with this report, for fuller details of the work of construction, maintenance and operation.

EXPENDITURES.

During the year ending Sept. 30, 1900, expenditures have been as follows:—

Construction.

North Metropolitan system:—

Additions to existing pump-		
ing plants,	\$50,304	65
Wakefield extension,	2,762	89
Chelsea and Everett outlets, .	1,809	15
	<u> </u>	
		\$54,876 69

South Metropolitan system:—

Charles River valley (Water-		
town siphon),	\$10,912	00
Neponset River valley,	13,287	75
High-level sewer,	347,302	48
	<u> </u>	
		371,452 23
Total expenditures on construction, .		<u> </u> \$426,328 92

Maintenance.

North Metropolitan system:—

Entire system for the year,	\$86,907	77
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South Metropolitan system:—

Charles River valley,	\$47,891	09
Neponset River valley,	21,402	76
	<u> </u>	
Total expenditures on maintenance, .		69,293 85
		<u> </u> 156,201 62
Total expenditures for the year,		\$582,530 54

APPROPRIATIONS AND UNEXPENDED BALANCES TO DATE.

Following is a list of the several appropriations made by the Legislature for the construction of the Metropolitan sewerage systems, with the balances available, to date:—

North Metropolitan System.

1889, chapter 439, original act (portion of \$5,000,000 devoted to this system),	\$4,210,865 73
1894, chapter 307, additional loan,	500,000 00
1895, chapter 294, additional loan,	300,000 00
1896, chapter 414, Greenwood and Boyntonville (Wakefield),	30,000 00
1897, chapter 88, Greenwood and Boyntonville (Wakefield), additional loan,	5,000 00
1897, chapter 436, additional outlet, Stoneham,	10,000 00
1897, chapter 520, Lexington extension,	70,000 00
1898, chapter 215, additional outlet, Everett,	60,000 00
1898, chapter 424, additions to existing pumping plants,	155,000 00
1900, chapter 172, Wakefield branch,	175,000 00
1900, chapter 184, additional outlets, Chelsea and Everett,	90,000 00
Total appropriation,	\$5,605,865 73
Additions (sales of land, etc.),	9,291 98
Available,	\$5,615,157 71
Expended to date,	5,317,274 37
Balance Sept. 30, 1900,	\$297,883 34

South Metropolitan System.

Charles River valley:—	
1889, chapter 439, original act (portion of \$5,000,000 devoted to this system),	\$789,134 27
1900, chapter 464, Watertown siphon purchase,	10,912 00
Total appropriation,	\$800,046 27
Expended to date,	800,046 27
Neponset River valley:—	
1895, chapter 406, original loan,	\$500,000 00
1897, chapter 88, additional loan,	300,000 00
1898, chapter 180, additional loan,	35,000 00
1899, chapter 241, additional loan,	25,000 00
Total appropriation,	\$860,000 00
Additions (cash received for pumping ground water),	109 50
Available,	\$860,109 50
Expended to date,	853,682 48
Balance Sept. 30, 1900,	\$6,427 02

High-level sewer:—	
1899, chapter 424, original act,	\$1,600,000 00
Expended to date,	891,910 94
	<hr/>
Balance Sept. 30, 1900,	\$4,208,089 86

APPORTIONMENT OF COST OF CONSTRUCTION AND MAINTENANCE.

The cost of the Metropolitan sewerage systems is met by annual payments apportioned among the cities and towns in the district every five years by a commission appointed by the Supreme Judicial Court. At the present time the cities and towns of the North Metropolitan district are paying according to the ratios determined by the apportionment commission of 1896, whose award applies to a period of five years, 1896 to 1900, inclusive. This apportionment included also the ratios for cities and towns of the Charles River and Neponset valley districts during the years 1896 to 1900, inclusive. But chapter 424 of the Acts of 1899, providing for the construction of the high-level system, abolished the Charles River and Neponset valley systems, as separate systems, and united the Charles River, Neponset valley and high-level districts into a new district, to be known after the date of the act as the South Metropolitan district. The act further provided that apportionment commissioners shall "determine the proportion in which each of the cities and towns [of the South Metropolitan system] shall pay money into the treasury of the Commonwealth for the term of five years next after the year of the first issue of said scrip or certificate."

The Supreme Judicial Court appointed, on March 27, 1900, a commission to determine the ratios of payment by the cities and towns of the South Metropolitan district for a period of five years, from 1900 to 1904, inclusive.

The report of the apportionment commissioners can be found on page 25.

Details of the work for the year follow.