

(A Component Unit of the Commonwealth of Massachusetts)

Financial Statements and Required Supplementary Information

June 30, 2017 and 2016

(With Independent Auditors' Report Thereon)

MASSACHUSETTS CLEAN WATER TRUST (A Component Unit of the Commonwealth of Massachusetts)

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KPMG LLP Two Financial Center 60 South Street Boston, MA 02111

#### Independent Auditors' Report

The Board of Trustees

Massachusetts Clean Water Trust:

#### **Report on the Financial Statements**

We have audited the accompanying basic financial statements of the Massachusetts Clean Water Trust (the Trust), a component unit of the Commonwealth of Massachusetts, which comprise the statements of net position as of and for the years ended June 30, 2017 and 2016, and the statements of revenues, expenses and changes in net position, and cash flows for the years then ended and the related notes to the financial statements.

#### Management's Responsibility for the Financial Statements

Management is responsible for the preparation and fair presentation of these financial statements in accordance with U.S. generally accepted accounting principles; this includes the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error.

#### Auditors' Responsibility

Our responsibility is to express an opinion on these financial statements based on our audits. We conducted our audit in accordance with auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in *Government Auditing Standards*, issued by the Comptroller General of the United States. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditors' judgment, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the entity's preparation and fair presentation of the financial statements in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the entity's internal control. Accordingly, we express no such opinion. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluating the overall presentation of the financial statements.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

#### Opinion

In our opinion, the financial statements referred to above present fairly, in all material respects, the financial position of the Massachusetts Clean Water Trust as of June 30, 2017 and 2016, and the changes in its financial position and its cash flows for the years then ended, in accordance with U.S. generally accepted accounting principles.



#### **Other Matters**

#### Required Supplementary Information

U.S. generally accepted accounting principles require that the Management's Discussion and Analysis on pages 3–11 be presented to supplement the basic financial statements. Such information, although not a part of the basic financial statements, is required by the Governmental Accounting Standards Board who considers it to be an essential part of financial reporting for placing the basic financial statements in an appropriate operational, economic, or historical context. We have applied certain limited procedures to the required supplementary information in accordance with auditing standards generally accepted in the United States of America, which consisted of inquiries of management about the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, the basic financial statements, and other knowledge we obtained during our audit of the basic financial statements. We do not express an opinion or provide any assurance on the information because the limited procedures do not provide us with sufficient evidence to express an opinion or provide any assurance.

### Other Reporting Required by Government Auditing Standards

In accordance with *Government Auditing Standards*, we have also issued our report dated October 2, 2017 on our consideration of the Trust's internal control over financial reporting and on our tests of its compliance with certain provisions of laws, regulations, contracts, and grant agreements and other matters. The purpose of that report is to describe the scope of our testing of internal control over financial reporting and compliance and the results of that testing, and not to provide an opinion on internal control over financial reporting or on compliance. That report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering the Trust's internal control over financial reporting and compliance.

KPMG LLP

Boston, Massachusetts October 2, 2017

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Management's Discussion and Analysis – Required Supplementary Information

(Unaudited)

June 30, 2017 and 2016

#### Introduction

The Massachusetts Clean Water Trust (the Trust) is a public instrumentality of the Commonwealth of Massachusetts (the Commonwealth). It was established in 1989 to administer the Massachusetts Water Pollution Abatement Revolving Fund pursuant to Title VI of the Federal Clean Water Act establishing the Clean Water State Revolving Fund (Clean Water SRF). Its enabling statute, Chapter 29C of the Massachusetts General Laws, was amended in 1998 to provide that the Trust would also administer the provisions of Title XIV of the Federal Safe Drinking Water Act, establishing the Drinking Water State Revolving Fund (Drinking Water SRF).

The Trust's Clean Water SRF and the Drinking Water SRF programs were established to accept federal grants and required Commonwealth matching funds in an amount equal to approximately 20% of the federal grants. The Trust's SRF programs utilize a "leveraged" financing model, under which federal grants and state matching grants, together with other monies available to the Trust are pledged as security for revenue bonds issued by the Trust. The proceeds of the bonds and other funds of the Trust are used to fund loans to local governmental units and other eligible borrowers for eligible project costs. In addition to loan repayments, earnings on these pledged assets are used to pay a portion of debt service on the related bonds, thereby reducing the borrowers' loan repayment obligation. As the bonds are paid, the pledged assets "revolve" and become available for new projects.

Since 2002, the Trust has provided loans to communities at a 2% interest rate; however, clean water projects that address nutrient reduction, and projects approved prior to 2002, may receive a rate below 2%. As the effective market interest rate on the Trust's bonds is higher than the 2% loan rate, the borrowers receive a subsidy equal to the difference between those rates. The Clean Water SRF and Drinking Water SRF programs are administered by the Trust in partnership with the Massachusetts Department of Environmental Protection (DEP). DEP manages project development and approval while the Trust manages the flow of funds to the communities. Subsidized financing has been an important incentive for many communities to undertake water and sewer infrastructure improvement projects. Since the enactment of Chapter 95 of the Acts of 1995 of the Commonwealth, the Trust has been the Commonwealth's primary program to finance such improvements.

The Clean Water SRF provides low cost financing to eligible borrowers for projects that reduce, eliminate, or prevent water pollution. Examples of Clean Water SRF projects include construction of new wastewater treatment facilities, upgrades to existing facilities, infiltration/inflow correction, wastewater collection systems, and nonpoint source pollution abatement projects such as landfill capping, community programs for upgrading septic systems (Title 5), brownfield remediation, pollution prevention, and storm water remediation.

The Drinking Water SRF provides low cost financing to publicly and privately owned water systems for projects that provide safe, affordable drinking water. Examples of Drinking Water SRF projects include new and upgraded drinking water treatment facilities; replacement of contaminated sources, new water treatment or storage facilities; consolidation or restructuring of water systems; projects and system activities that provide treatment, or effective alternatives to treatment for compliance with regulated health standards such as the Surface Water Treatment Rule; and installation or replacement of transmission or distribution systems.

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### Financial Highlights - Fiscal Year 2017

- At the close of fiscal year (FY) 2017, assets and deferred outflows exceeded liabilities by \$2.38 billion, as compared to \$2.34 billion for FY 2016. Current assets increased \$94.7 million as scheduled maturities of investments in the debt service reserve funds revolved back into program equity (cash and cash equivalent), resulting in an \$93.1 million decrease in long term investments. Loan receivable increased \$56.4 million which reflects the change in assets that are pledged to the Trust's bonds away from debt service reserve funds to pledging direct loans.
- On April 13, 2017, the Trust issued State Revolving Fund Bonds Series 20 (Green Bonds) in the amount of \$207.4 million with a premium of \$32.2 million. The Trust has designated the Series 20 bonds as "Green Bonds" based on the intended use of the proceeds of the Series 20 Bonds for the financing of projects that adhere to the federal Clean Water Act and Safe Drinking Water Act, as determined by the Environmental Protection Agency (EPA). The Series 20 Bonds were issued to finance or refinance costs of certain wastewater and drinking water projects for governmental units or other eligible borrowers. Series 20 Bond proceeds in the amount of \$167.5 million were applied to fund loans for projects under the clean water SRF and \$72.1 million of proceeds were applied to fund loans for projects under the drinking water SRF. The Trust anticipates expending all the proceeds within three years. In connection with the issuance of the Series 20 bonds, the Trust pledged \$65.9 million of direct loans for projects under the clean water SRF and \$26.8 million of direct loans for projects under the drinking water SRF. The interest payments on these pledged direct loans will be used to pay a portion of the debt service due on the Series 20 bonds.
- On April 13, 2017, the Trust issued State Revolving Fund Refunding Bonds, Series 2017 in the amount of \$96.3 million with a premium of \$18.8 million. Proceeds of the Series 2017 Refunding Bonds were used, together with \$1.0 million of program equity cash to refund optimal current refunding candidates from the Trust's Series 15, 16 and the 2012 Refunding Bonds. These proceeds were deposited with an escrow agent to provide resources for all future debt service payments on the refunded bonds. As a result, the refunded bonds are considered to be defeased and the liability has been removed from the financial statements. The total debt defeased through this new issue was \$102.3 million, for a cash flow savings of \$7.9 million, resulting in an economic gain (net present value) of \$6.7 million.
- For FY 2017, the Trust recorded an operating loss of \$33.7 million as compared to an operating income of \$20.6 million in FY 2016. The \$54.3 million change was primarily attributable to a \$45.7 million decrease in interest income and contract assistance. Significant contributing factors of this decrease were the change in the fair market value year over year of \$32.2 million, as well as a \$11.7 million allocation to the Commonwealth for its portion of the FY 2012 refunding savings that are being deferred for future additional subsidy. Operating expenses were notably impacted with the increase of \$8.5 million of arbitrage expense, due to the timing of required rebate payments to the United States Treasury. These decreases in income coupled with increased operating expenses, including an additional \$1.4 million of funding provided to DEP helping to fund the testing for lead in the water of public schools, contributed to the change.
- The statement of cash flows indicates an increase in cash for the year of \$100.0 million as compared to an increase of \$34.7 million in FY 2016. The primary driver of the increase in both these fiscal years is the scheduled maturities of debt service reserve fund investments that have "revolved" back into the program equity. These maturities were offset by a \$50.0 million investment in the MMDT Short Term Bond Fund in FY 2016.

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(Unaudited)

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- In FY 2017, the Trust continued to receive Capitalization Grants from the Environmental Protection Agency (EPA) for both the Clean Water SRF and Drinking Water SRF programs. The Trust received revenue of \$45.9 million from the clean water program and received \$15.7 million in the drinking water program. The Commonwealth provided a match of \$9.1 million in the clean water program and \$3.1 million in the drinking water program for these federally funded programs. The continued capitalization of the Trust, combined with the Trust's access to the bond market, has allowed the Trust to provide funding to all qualified borrowers.
- The Trust maintains the highest ratings of "Aaa," "AAA," and "AAA" from Moody's Investors Service, S&P Global Ratings, and Fitch Ratings agencies, respectively, on its recently issued bonds, allowing the Trust to continue to provide low cost funding to communities in the Commonwealth.

### Financial Highlights - Fiscal Year 2016

- At the close of fiscal FY 2016, assets and deferred outflows exceeded liabilities by \$2.34 billion, as compared to \$2.24 billion for FY 2015. Included in this calculation were total loans receivable, which increased \$89.0 million to \$4.05 billion which increase was offset by a \$60.3 million decrease in long term investments, caused by scheduled maturities of debt service reserve fund investments. This reflects the change in assets that are pledged to the Trust's bonds away from debt service reserve funds (i.e., investments) to pledging direct loans.
- On February 11, 2016, the Trust issued Series 19 Green Bonds in the amount of \$207.8 million. Proceeds of the Series 19 bonds were used to finance or refinance certain wastewater and drinking water projects in 47 communities. The Trust has designated the Series 19 bonds as "Green Bonds" based on the intended use of the proceeds of the Series 19 Bonds for the financing of projects that adhere to the federal Clean Water Act and Safe Drinking Water Act, as determined by the EPA. Proceeds in the amount of \$145.7 million were applied to fund loans for projects under the clean water SRF and \$99.4 million of proceeds were applied to fund loans for projects under the drinking water SRF. The Trust anticipates expending all of the proceeds within three years. In connection with the issuance of the Series 19 bonds, the Trust made \$58.4 million of direct loans for projects under the Clean Water SRF and \$39.8 million of direct loans for projects under the Drinking Water SRF. The interest payments on these direct loans will be used to pay a portion of the debt service due on the Series 19 bonds.
- For FY 2016, the Trust recorded operating income of \$20.6 million as compared to an operating income of \$36.0 million in FY 2015. The \$15.4 million change was primarily attributable to a \$14.6 million decrease in interest income and contract assistance. Significant contributing factors of this decrease were the change in the fair market value year over year of \$13.8 million, as well as a decrease in investment income as the debt service reserve fund investments matured. These decreases in income, coupled with increased operating expenses, contributed to the change. Operating expenses were notably impacted with the provision of \$2.6 million for the programmatic support costs of DEP, including helping to fund the testing for lead in the water of public schools. Moreover, an increase of \$1.3 million of principal forgiveness expense, due to the timing of disbursements on qualifying projects, further impacted the change.
- The statement of cash flows indicates an increase in cash for the year of \$34.7 million.
- In FY 2016, the Trust continued to receive Capitalization Grants from the EPA for both the Clean Water SRF and Drinking Water SRF programs. The Trust received revenue of \$47.4 million from the clean water

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(Unaudited)

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program and received \$16.4 million in the drinking water program. The Commonwealth provided a match of \$12.7 million for these federally funded programs. The continued capitalization of the Trust, combined with the Trust's access to the bond market, has allowed the Trust to provide funding to all qualified borrowers.

#### **Overview of Financial Statements**

The financial Section of this report consists of the following parts: management's discussion and analysis (this section), the basic financial statements, and the notes to the financial statements.

The Trust's financial statements are prepared in conformity with U.S. generally accepted accounting principles as applied to a special purpose entity engaged solely in business-type activities. Under this method of accounting, an economic resources measurement focus and an accrual basis of accounting are used. Revenue is recorded when earned, and expenses are recorded when incurred. The basic financial statements include statements of net position, statements of revenues, expenses, and changes in net position, and statements of cash flows. This report also includes notes accompanying the financial statements to fully explain the activities reported in them.

The statements of net position present information on the total assets and deferred outflows of resources, and total liabilities and deferred inflows of resources of the Trust. The difference between the two totals is net position. Over time, increases and decreases in net position may be an indicator of the strength or deterioration of the financial health of the Trust.

The statements of revenues, expenses, and changes in net position report the operating revenues and expenses and the nonoperating revenues and expenses of the Trust for the fiscal year. The difference – increase or decrease in net position – then determines the net change in net position for the fiscal year. This change in net position added to last year's net position will reconcile to the total net position for this fiscal year.

The statements of cash flows report activity of cash and cash equivalents during the fiscal year resulting from operating activities, noncapital financing activities, and investing activities. The net result of these activities is reconciled to the cash and cash equivalent balances reported at the end of the fiscal year. These statements are prepared using the direct method of presentation, which allows the reader to easily discern the amount of cash received from grantors, borrowers, and financial institutions, and how much cash was disbursed to borrowers, vendors, and bondholders.

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Management's Discussion and Analysis – Required Supplementary Information (Unaudited)

June 30, 2017 and 2016

### **Condensed Financial Information and Financial Analysis**

### Massachusetts Clean Water Trust's Net Position

(In thousands)

		June 30			Percentage change		
	2017	2016	2015	2017–2016	2016–2015		
Current assets	\$ 1,347,414	1,252,737	1,146,898	7.6 %	9.2 %		
Loans receivable, long term	3,715,507	3,664,872	3,591,902	1.4	2.0		
Investments, long term	695,527	788,591	845,562	(11.8)	(6.7)		
Deferred outflows	88,654	100,910	108,352	(12.1)	(6.9)		
Other	1,823	1,895	1,928	(3.8)	(1.7)		
Total assets and							
deferred outflows	5,848,925	5,809,005	5,694,642	0.7	2.0		
Current liabilities	384,046	363,651	343,657	5.6	5.8		
Liability for derivative instruments	3,604	6,461	5,642	(44.2)	14.5		
Long-term debt	3,084,724	3,102,307	3,105,887	(0.6)	(0.1)		
Total liabilities	3,472,374	3,472,419	3,455,186	0.0	0.5		
Net position:							
Restricted	1,899,565	1,838,451	1,776,826	3.3	3.5		
Unrestricted	476,986	498,135	462,630	(4.2)	7.7		
Total net position	\$ 2,376,551	2,336,586	2,239,456	1.7 %	4.3 %		

### Net Position

The Trust's net position at June 30, 2017 and 2016 was \$2.38 billion and \$2.34 billion, respectively. Total assets and deferred outflows increased \$39.9 million to \$5.85 billion from \$5.81 billion at June 30, 2017. Current assets increased \$94.7 million as scheduled maturities of investments in the debt service reserve funds revolve back into program equity (cash and cash equivalent), which resulted in an \$93.1 million decrease in long term investments. Loan receivable increased \$56.4 million which reflects the change in assets that are pledged to the Trust's bonds away from debt service reserve funds to pledging direct loans.

The Trust's net position at June 30, 2016 and 2015 was \$2.34 billion and \$2.24 billion, respectively. Total assets and deferred outflows increased \$114.4 million to \$5.81 billion from \$5.70 billion at June 30. This increase was driven primarily by an \$89.0 million increase in loans receivable offset by a \$60.3 million decrease in long term investments, caused by scheduled maturities of debt service reserve fund investments. This reflects the change in assets that are pledged to the Trust's bonds away from debt service reserve funds (i.e., investments) to direct loans.

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June 30, 2017 and 2016

### Bonds Payable

The Trust issues revenue bonds (SRF Bonds) in order to fund communities' construction projects under the Clean Water and Drinking Water programs. The SRF Bonds are secured by either reserve funds or loans to borrowers that are pledged as a source of payment and security, or a combination thereof, both of which are funded by the SRF program funds. The SRF Bonds are payable from borrower loan repayments, reserve fund earnings and payments made by the Commonwealth to the Trust on behalf of the borrowers.

The following is a summary of bonds payable at June 30, 2017, 2016 and 2015 (in thousands). More detailed information can be found in note 8 to the financial statements.

	-	2017	2016	2015
Water Pollution Abatement Revenue Bonds:				
MWRA Loan Program	\$	8,170	9,100	10,060
South Essex Sewage District Loan Program		_	285	890
New Bedford Loan Program		_	_	270
Pool Loan Program	-	1,513,335	1,466,700	1,362,395
Subtotal revenue bonds	-	1,521,505	1,476,085	1,373,615
Subordinated Revenue Refunding Bonds:				
MWRA Loan Program		54,040	54,040	54,040
Pool Loan Program	_	1,392,855	1,462,805	1,583,935
Subtotal revenue refunding bonds	_	1,446,895	1,516,845	1,637,975
Total bonds		2,968,400	2,992,930	3,011,590
Add unamortized bond premium		347,809	335,272	320,762
Total bonds payable, net	\$_	3,316,209	3,328,202	3,332,352

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Management's Discussion and Analysis – Required Supplementary Information (Unaudited)

June 30, 2017 and 2016

A summary of the Trust's statements of revenues, expenses, and changes in net position is as follows:

## **Summary of Changes in Net Position**

(In thousands)

		June 30		Percentag	je change
	2017	2016	2015	2017–2016	2015–2014
Loan origination fees Interest income	\$ 5,608 1,821 90,573	5,515 1,926 133,905	5,315 2,150 147,069	1.7 % (5.5) (32.4)	3.8 % (10.4) (9.0)
Contract assistance from Commonwealth of Massachusetts	26,572	28,927	30,375	(8.1)	(4.8)
Total operating revenues	124,574	170,273	184,909	(26.8)	(7.9)
Department of Environmental Protection programmatic support costs Principal forgiveness General and administrative Arbitrage rebate payments Interest expense	8,545 5,672 5,210 12,328 126,551	8,421 6,117 4,092 3,785 127,247	5,793 4,797 5,923 1,538 130,888	1.5 (7.3) 27.3 225.7 (0.5)	45.4 27.5 (30.9) 146.1 (2.8)
Total operating expenses	158,306	149,662	148,939	5.8	0.5
Operating income	(33,732)	20,611	35,970	(263.7)	(42.7)
U.S. Environmental Protection Agency capitalization grants	61,534	63,781	63,290	(3.5)	0.8
Commonwealth of Massachusetts matching grants	12,163	12,738	12,809	(4.5)	(0.6)
Total nonoperating revenues	73,697	76,519	76,099	(3.7)	0.6
Increase in net position	39,965	97,130	112,069	(58.9)	(13.3)
Net position, beginning of year	2,336,586	2,239,456	2,127,387	4.3	5.3
Net position, end of year	\$ 2,376,551	2,336,586	2,239,456	1.7 %	4.3 %

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Management's Discussion and Analysis – Required Supplementary Information (Unaudited)

June 30, 2017 and 2016

A summary of the Trust's interest income is as follows:

### Summary of Interest Income

(In thousands)

			June 30	Percentage change		
		2017	2016	2015	2017–2016	2016–2015
Loan interest income	\$	69,294	69,102	66,929	0.3 %	3.2 %
Investment income		40,770	40,234	41,596	1.3	(3.3)
BAB subsidy income		4,144	4,266	4,395	(2.9)	(2.9)
Change in fair market value		(11,937)	20,303	34,149	(158.8)	(40.5)
Refunding savings allocated to the Commonwealth	_	(11,698)			(100.0)	
Total interest income	\$_	90,573	133,905	147,069	(32.4) %	(9.0) %

#### **Results of Operations**

For FY 2017, the Trust recorded operating loss of \$33.7 million as compared to an operating income of \$20.6 million in FY 2016. The \$54.3 million change was primarily attributable to a \$45.7 million decrease in interest income and contract assistance. Significant contributing factors of this decrease were the change in the fair market value year over year of \$32.2 million, as well as a \$11.7 million allocation to the Commonwealth for its portion of the FY 2012 refunding savings that are being deferred for future additional subsidy. Operating expenses were notably impacted with the increase of \$8.5 million of arbitrage expense, due to the timing of required rebate payments to the United States Treasury. These decreases in income coupled with increased operating expenses, including an additional \$1.4 million of funding provided to DEP helping to fund the testing for lead in the water of public schools, contributed to the change.

For FY 2016, the Trust recorded operating income of \$20.6 million as compared to an operating income of \$36.0 million in FY 2015. The \$15.4 million change in the Trust's operating income in FY 2016 was primarily attributable to a \$14.6 million decrease in interest income caused by the change in the fair market value year over year of \$13.8 million as well as a decrease in investment income as the debt service reserve fund investments matured. These decreases in income coupled with the increased operating expense contributed to the change. Operating expenses were notably impacted with the provision of \$2.6 million for the programmatic support costs of DEP, including helping to fund the testing of lead in the water of public schools. Moreover, an increase of \$1.3 million of principal forgiveness expense due to the timing of disbursements on qualifying projects, further impacted the change.

The Trust's operating income is negatively impacted by the inclusion of expenses such as DEP programmatic support costs of \$8.5 million, \$8.4 million, and \$5.8 million for FY 2017, FY 2016 and FY 2015, respectively, and principal forgiveness, which are funded by the capitalization grant revenue that is classified as nonoperating revenue.

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(Unaudited)

June 30, 2017 and 2016

For FY 2017, the Trust's nonoperating revenue of \$73.7 million decreased slightly from \$76.5 million the year before reflecting decreases in the annual clean water and drinking water federal capitalization grants revenue and the related state matching grant. Revenue is recognized based on the funding availability schedule contained in the grant. For more information on grant revenue, refer to note 6.

#### **Future Economic Factors**

In August 2014, the Commonwealth enacted Chapter 286 of the Acts of 2014 of the Commonwealth, which provided for \$57.0 million in matching capitalization funds to the Clean Water SRF and Drinking Water SRF programs. As of June 30, 2017, matching capitalization funds available to the Clean Water SRF and Drinking Water SRF programs were \$33.9 million. The Trust estimates this amount to be sufficient to meet its clean water and drinking water matching needs through FY 2019, assuming current federal funding levels are maintained.

#### **Requests for Information**

This financial report is intended to provide an overview of the financial picture of the Massachusetts Clean Water Trust. Any further questions regarding any of the information contained within this report may be addressed via email to Sue Perez, Executive Director, sperez@tre.state.ma.us or Sally Peacock, Controller, speacock@tre.state.ma.us or mail to Massachusetts Clean Water Trust, 3 Center Plaza, Suite 430, Boston, MA 02108.

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### Statements of Net Position

### June 30, 2017 and 2016

(In thousands)

_	2017	2016
Assets and deferred outflows:		
Current assets:		
Cash and cash equivalents (note 3) \$	586,633	486,629
Short-term investments (note 5)	221,170	226,124
Project fund deposits (note 4)	66,573	50,243
Grants receivable:		
U.S. Environmental Protection Agency (note 6)	28,814	49,667
Loans receivable, net (note 7)	389,912	384,195
Accrued interest receivable	54,312	55,879
Total current assets	1,347,414	1,252,737
Noncurrent assets:		
Loans receivable, long term (note 7)	3,715,507	3,664,872
Long-term investments (note 5)	695,527	788,591
Other assets	1,823	1,895
Total noncurrent assets	4,412,857	4,455,358
Deferred outflows of resources (notes 8 and 12)	88,654	100,910
Total assets and deferred outflows of resources	5,848,925	5,809,005
Liabilities:		
Current liabilities:		
Accrued expenses and interest payable	58,268	60,307
Unearned revenue	27,270	28,086
Loan commitments and project funds payable	67,023	49,363
Long-term debt (note 8)	231,485	225,895
Total current liabilities	384,046	363,651
Noncurrent liabilities:		
Liability for derivative instruments (note 11)	3,604	6,461
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Long-term debt, net (note 8)	3,084,724	3,102,307
Total noncurrent liabilities	3,088,328	3,108,768
Total liabilities	3,472,374	3,472,419
Net position:		
Restricted for program purposes (note 9)	1,899,565	1,838,451
Unrestricted (note 9)	476,986	498,135
Commitments (note 10)		
Total net position \$	2,376,551	2,336,586

See accompanying notes to financial statements.

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# Statements of Revenues, Expenses, and Changes in Net Position

Years ended June 30, 2017 and 2016

(In thousands)

	_	2017	2016
Operating revenues:  Loan servicing fees	\$	5,608	5,515
Loan origination fees	Ψ	1,821	1,926
Interest income		90,573	133,905
Contract assistance from Commonwealth of Massachusetts	_	26,572	28,927
Total operating revenues	_	124,574	170,273
Operating expenses:  Commonwealth of Massachusetts:  Department of Environmental Protection – programmatic			
support costs		8,545	8,421
Principal forgiveness		5,672	6,117
General and administrative		5,210	4,092
Arbitrage rebate payments		12,328	3,785
Interest expense	_	126,551	127,247
Total operating expenses	_	158,306	149,662
Operating income	_	(33,732)	20,611
Nonoperating revenue: Capitalization grant revenue: U.S. Environmental Protection Agency capitalization			
grants (note 6)		61,534	63,781
Commonwealth of Massachusetts matching grants (note 6)	_	12,163	12,738
Total nonoperating revenue	_	73,697	76,519
Increase in net position		39,965	97,130
Net position – beginning of year	_	2,336,586	2,239,456
Net position – end of year	\$ _	2,376,551	2,336,586

See accompanying notes to financial statements.

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### Statements of Cash Flows

### Years ended June 30, 2017 and 2016

(In thousands)

Cash flows from operating activities:         7,494         7,466           Cash paid to vendors         (25,953)         (16,611)           Net cash used in operating activities         (18,459)         (9,145)           Cash flows from noncapital financing activities:         354,577         245,140           Cash used in debt refunding         (115,810)         —           Repayment of bonds         (225,895)         (226,485)           Interest paid         (140,716)         (141,504)           Proceeds from U.S. Environmental Protection Agency capitalization grants         12,067         12,078           Proceeds from Commonwealth matching capitalization grants         12,067         12,078           Net cash used in noncapital financing activities         (34,111)         (32,384)           Cash flows from investing activities:         (329,883)         (346,507)           Loans disbursed to recipients         (329,883)         (346,507)           Cash received from borrowers         239,871         222,577           Contract assistance received – principal         24,543         27,056           Interest received         153,761         112,296           Contract assistance received – interest         26,636         30,323           Purchases of investments, net         46,629			2017	2016
Other cash received from borrowers         \$ 7,494         7,466           Cash paid to vendors         (25,953)         (16,611)           Net cash used in operating activities:         (18,459)         (9,145)           Bond proceeds         354,577         245,140           Cash used in debt refunding         (115,810)         —           Repayment of bonds         (225,895)         (226,465)           Interest paid         (140,716)         (141,504)           Proceeds from U.S. Environmental Protection Agency capitalization grants         81,666         78,367           Proceeds from Commonwealth matching capitalization grants         81,666         78,367           Proceeds from Commonwealth matching capitalization grants         12,067         12,078           Net cash used in noncapital financing activities         (34,111)         (32,384)           Cash flows from investing activities:         239,871         222,577           Cash received from borrowers         239,871         222,577           Cash received from borrowers         239,871         222,577           Contract assistance received – principal         24,543         27,056           Interest received         103,761         112,296           Contract assistance received – interest         94,622         92,3	Cash flows from operating activities:			
Net cash used in operating activities         (18,459)         (9,145)           Cash flows from noncapital financing activities:         354,577         245,140           Cash used in debt refunding         (115,810)         —           Repayment of bonds         (225,895)         (226,465)           Interest paid         (140,716)         (141,504)           Proceeds from U.S. Environmental Protection Agency capitalization grants         81,666         78,367           Proceeds from Commonwealth matching capitalization grants         12,067         12,078           Net cash used in noncapital financing activities         (34,111)         (32,384)           Cash flows from investing activities:         (329,883)         (346,507)           Cash received from Dorrowers         239,871         222,577           Contract assistance received – principal         24,543         27,056           Interest received         103,761         112,296           Contract assistance received – interest         26,636         30,323           Purchases of investments         (6,976)         (61,858)           Sales/maturities of investments, net         94,622         92,386           Net cash provided by investing activities         152,574         76,273           Net increase in cash and cash equivalents	· · ·	\$	7,494	7,466
Cash flows from noncapital financing activities:         354,577         245,140           Bond proceeds         354,577         245,140           Cash used in debt refunding         (115,810)         —           Repayment of bonds         (226,895)         (226,465)           Interest paid         (140,716)         (141,504)           Proceeds from U.S. Environmental Protection Agency capitalization grants         81,666         78,367           Proceeds from Commonwealth matching capitalization grants         12,067         12,078           Net cash used in noncapital financing activities         (34,111)         (32,384)           Cash flows from investing activities:         (329,883)         (346,507)           Cash sibursed to recipients         (329,883)         (346,507)           Cash received from borrowers         239,871         222,577           Contract assistance received – principal         24,543         27,056           Interest received         103,761         112,296           Contract assistance received – interest         26,636         30,323           Purchases of investments, net         94,622         92,386           Net cash provided by investing activities         152,574         76,273           Net increase in cash and cash equivalents         100,004	Cash paid to vendors		(25,953)	(16,611)
Bond proceeds         354,577         245,140           Cash used in debt refunding         (115,810)         —           Repayment of bonds         (225,895)         (226,465)           Interest paid         (140,716)         (141,504)           Proceeds from U.S. Environmental Protection Agency capitalization grants         81,666         78,367           Proceeds from Commonwealth matching capitalization grants         12,067         12,078           Net cash used in noncapital financing activities         (34,111)         (32,384)           Cash flows from investing activities:         (329,883)         (346,507)           Cash flows from investing activities:         239,871         222,577           Cash received from borrowers         239,871         222,577           Contract assistance received – principal         24,543         27,056           Interest received         103,761         112,296           Contract assistance received – interest         26,636         30,323           Purchases of investments, net         94,622         92,386           Net cash provided by investing activities         152,574         76,273           Net increase in cash and cash equivalents         100,004         34,744           Cash and cash equivalents, end of year         \$86,629	Net cash used in operating activities	_	(18,459)	(9,145)
Cash used in debt refunding         (215,810)         —           Repayment of bonds         (226,895)         (226,465)           Interest paid         (140,716)         (141,504)           Proceeds from U.S. Environmental Protection Agency capitalization grants         81,666         78,367           Proceeds from Commonwealth matching capitalization grants         12,067         12,078           Net cash used in noncapital financing activities         (34,111)         (32,384)           Cash flows from investing activities:         (329,883)         (346,507)           Loans disbursed to recipients         (329,883)         (346,507)           Cash received from borrowers         239,871         222,577           Contract assistance received – principal         24,543         27,056           Interest received         103,761         112,296           Contract assistance received – interest         26,636         30,323           Purchases of investments         (6,976)         (61,858)           Sales/maturities of investments, net         94,622         92,386           Net increase in cash and cash equivalents         100,004         34,744           Cash and cash equivalents, beginning of year         486,629         451,885           Cash and cash equivalents, end of year         \$				
Repayment of bonds Interest paid Interest paid Proceeds from U.S. Environmental Protection Agency capitalization grants Proceeds from Commonwealth matching capitalization grants Proceeds from Commonwealth matching capitalization grants I2,067 12,078         81,666 78,367 78,367 78,367 78,367           Proceeds from Commonwealth matching capitalization grants Net cash used in noncapital financing activities (34,111) (32,384)         12,067 12,078           Cash flows from investing activities:         329,883) (346,507)           Cash received from borrowers 239,871 222,577         239,871 222,577           Contract assistance received – principal 24,543 27,056         103,761 112,296           Interest received from borrowers 26,636 30,323         103,761 112,296           Contract assistance received – interest 26,636 30,323         26,636 30,323           Purchases of investments, net 34,622 92,386         94,622 92,386           Net cash provided by investing activities 32,574 76,273         76,273           Net increase in cash and cash equivalents 3100,004 34,744         34,744           Cash and cash equivalents, beginning of year 486,629 451,885         486,629 451,885           Reconciliation of operating income to net cash used in operating activities: Operating income to net cash used in operating activities: Reclassification of: Interest income (90,573) (133,905) (			354,577	245,140
Interest paid				_
Proceeds from U.S. Environmental Protection Agency capitalization grants         81,666         78,367           Proceeds from Commonwealth matching capitalization grants         12,067         12,078           Net cash used in noncapital financing activities         (34,111)         (32,384)           Cash flows from investing activities:         (329,883)         (346,507)           Loans disbursed to recipients         (329,883)         (346,507)           Cash received from borrowers         239,871         222,577           Contract assistance received – principal         24,543         27,056           Interest received         103,761         112,296           Contract assistance received – interest         (6,976)         (61,858)           Purchases of investments         (6,976)         (61,858)           Sales/maturities of investments, net         94,622         92,386           Net cash provided by investing activities         152,574         76,273           Net increase in cash and cash equivalents         100,004         34,744           Cash and cash equivalents, beginning of year         486,629         451,885           Cash and cash equivalents, end of year         \$586,633         486,629           Reconciliation of operating income to net cash used in operating activities:         (90,573)         (133				
Proceeds from Commonwealth matching capitalization grants         12,067         12,078           Net cash used in noncapital financing activities         (34,111)         (32,384)           Cash flows from investing activities:         Secondary (329,883)         (346,507)           Cash received from borrowers         239,871         222,577           Contract assistance received – principal         24,543         27,056           Interest received         103,761         112,296           Contract assistance received – interest         26,636         30,323           Purchases of investments         (6,976)         (61,858)           Sales/maturities of investments, net         94,622         92,386           Net cash provided by investing activities         152,574         76,273           Net increase in cash and cash equivalents         100,004         34,744           Cash and cash equivalents, beginning of year         486,629         451,885           Cash and cash equivalents, end of year         \$86,633         486,629           Reconciliation of operating income to net cash used in operating activities:         (33,732)         20,611           Adjustments to reconcile operating income to net cash used in operating activities:         (90,573)         (133,905)           Contract assistance         (90,573)	·			
Net cash used in noncapital financing activities         (34,111)         (32,384)           Cash flows from investing activities:         (329,883)         (346,507)           Loans disbursed to recipients         (329,883)         (346,507)           Cash received from borrowers         239,871         222,577           Contract assistance received – principal         24,543         27,056           Interest received         103,761         112,296           Contract assistance received – interest         26,636         30,323           Purchases of investments         (6,976)         (61,858)           Sales/maturities of investments, net         94,622         92,386           Net cash provided by investing activities         152,574         76,273           Net increase in cash and cash equivalents         100,004         34,744           Cash and cash equivalents, beginning of year         486,629         451,885           Cash and cash equivalents, end of year         \$ 586,633         486,629           Reconciliation of operating income to net cash used in operating activities:         (33,732)         20,611           Adjustments to reconcile operating income to net cash used in operating activities:         (90,573)         (133,905)           Contract assistance         (26,572)         (28,927)				•
Cash flows from investing activities:         (329,883)         (346,507)           Cash received from borrowers         239,871         222,577           Contract assistance received – principal         24,543         27,056           Interest received         103,761         112,296           Contract assistance received – interest         26,636         30,323           Purchases of investments         (6,976)         (61,858)           Sales/maturities of investments, net         94,622         92,386           Net cash provided by investing activities         152,574         76,273           Net increase in cash and cash equivalents         100,004         34,744           Cash and cash equivalents, beginning of year         486,629         451,885           Cash and cash equivalents, end of year         \$ 586,633         486,629           Reconciliation of operating income to net cash used in operating activities:         (33,732)         20,611           Adjustments to reconcile operating income to net cash used in operating activities:         (90,573)         (133,905)           Reclassification of:         (90,573)         (133,905)           Interest income         (90,573)         (133,905)           Contract assistance         (26,572)         (28,927)           Interest expense	Proceeds from Commonwealth matching capitalization grants		12,067	12,078
Loans disbursed to recipients         (329,883)         (346,507)           Cash received from borrowers         239,871         222,577           Contract assistance received – principal         24,543         27,056           Interest received         103,761         112,296           Contract assistance received – interest         26,636         30,323           Purchases of investments         (6,976)         (61,858)           Sales/maturities of investments, net         94,622         92,386           Net cash provided by investing activities         152,574         76,273           Net increase in cash and cash equivalents         100,004         34,744           Cash and cash equivalents, beginning of year         486,629         451,885           Cash and cash equivalents, end of year         \$ 586,633         486,629           Reconcilitation of operating income to net cash used in operating activities:         (33,732)         20,611           Adjustments to reconcile operating income to net cash used in operating activities:         (90,573)         (133,905)           Reclassification of:         (11,20,247)         (26,572)         (28,927)           Interest income         (26,572)         (28,927)           Interest expense         126,551         127,247           Principa	Net cash used in noncapital financing activities		(34,111)	(32,384)
Cash received from borrowers         239,871         222,577           Contract assistance received – principal         24,543         27,056           Interest received         103,761         112,296           Contract assistance received – interest         26,636         30,323           Purchases of investments         (6,976)         (61,858)           Sales/maturities of investments, net         94,622         92,386           Net cash provided by investing activities         152,574         76,273           Net increase in cash and cash equivalents         100,004         34,744           Cash and cash equivalents, beginning of year         486,629         451,885           Cash and cash equivalents, end of year         \$ 586,633         486,629           Reconciliation of operating income to net cash used in operating activities:         0perating income         \$ (33,732)         20,611           Adjustments to reconcile operating income to net cash used in operating activities:         \$ (33,732)         20,611           Adjustments to reconcile operating income to net cash used in operating activities:         \$ (30,573)         (133,905)           Contract assistance         (26,572)         (28,927)           Interest income         (26,572)         (28,927)           Interest expense         126,551				
Contract assistance received – principal         24,543         27,056           Interest received         103,761         112,296           Contract assistance received – interest         26,636         30,323           Purchases of investments         (6,976)         (61,858)           Sales/maturities of investments, net         94,622         92,386           Net cash provided by investing activities         152,574         76,273           Net increase in cash and cash equivalents         100,004         34,744           Cash and cash equivalents, beginning of year         486,629         451,885           Cash and cash equivalents, end of year         \$ 586,633         486,629           Reconciliation of operating income to net cash used in operating activities:         0perating income         \$ 0,611           Adjustments to reconcile operating income to net cash used in operating activities:         Reclassification of:         \$ 0,573         (133,905)           Interest income         (90,573)         (133,905)         (28,927)           Interest expense         126,551         127,247           Principal forgiveness         5,672         6,117           Changes in operating assets and liabilities:         195         (288)				
Interest received         103,761         112,296           Contract assistance received – interest         26,636         30,323           Purchases of investments         (6,976)         (61,858)           Sales/maturities of investments, net         94,622         92,386           Net cash provided by investing activities         152,574         76,273           Net increase in cash and cash equivalents         100,004         34,744           Cash and cash equivalents, beginning of year         486,629         451,885           Cash and cash equivalents, end of year         \$ 586,633         486,629           Reconciliation of operating income to net cash used in operating activities:         \$ (33,732)         20,611           Operating income         \$ (33,732)         20,611           Adjustments to reconcile operating income to net cash used in operating activities:         \$ (90,573)         (133,905)           Contract assistance         (90,573)         (133,905)           Contract assistance         (26,572)         (28,927)           Interest expense         126,551         127,247           Principal forgiveness         5,672         6,117           Changes in operating assets and liabilities:         195         (288)				
Contract assistance received – interest         26,636         30,323           Purchases of investments         (6,976)         (61,858)           Sales/maturities of investments, net         94,622         92,386           Net cash provided by investing activities         152,574         76,273           Net increase in cash and cash equivalents         100,004         34,744           Cash and cash equivalents, beginning of year         486,629         451,885           Cash and cash equivalents, end of year         \$ 586,633         486,629           Reconciliation of operating income to net cash used in operating activities:         (33,732)         20,611           Adjustments to reconcile operating income to net cash used in operating activities:         (90,573)         (133,905)           Reclassification of:         (90,573)         (133,905)           Interest income         (90,573)         (133,905)           Contract assistance         (26,572)         (28,927)           Interest expense         126,551         127,247           Principal forgiveness         5,672         6,117           Changes in operating assets and liabilities:         195         (288)				
Purchases of investments         (6,976)         (61,858)           Sales/maturities of investments, net         94,622         92,386           Net cash provided by investing activities         152,574         76,273           Net increase in cash and cash equivalents         100,004         34,744           Cash and cash equivalents, beginning of year         486,629         451,885           Cash and cash equivalents, end of year         \$ 586,633         486,629           Reconciliation of operating income to net cash used in operating activities:         (33,732)         20,611           Adjustments to reconcile operating income to net cash used in operating activities:         Reclassification of:         (90,573)         (133,905)           Reclassification of:         (26,572)         (28,927)         (11,72,47)         (26,571)         (28,927)           Interest expense         126,551         127,247         (27,247)         (27,247				
Sales/maturities of investments, net         94,622         92,386           Net cash provided by investing activities         152,574         76,273           Net increase in cash and cash equivalents         100,004         34,744           Cash and cash equivalents, beginning of year         486,629         451,885           Cash and cash equivalents, end of year         \$ 586,633         486,629           Reconciliation of operating income to net cash used in operating activities:         \$ (33,732)         20,611           Operating income         \$ (33,732)         20,611           Adjustments to reconcile operating income to net cash used in operating activities:         \$ (90,573)         (133,905)           Reclassification of:         (90,573)         (133,905)           Interest income         (90,573)         (133,905)           Contract assistance         (26,572)         (28,927)           Interest expense         126,551         127,247           Principal forgiveness         5,672         6,117           Changes in operating assets and liabilities:         195         (288)				
Net cash provided by investing activities         152,574         76,273           Net increase in cash and cash equivalents         100,004         34,744           Cash and cash equivalents, beginning of year         486,629         451,885           Cash and cash equivalents, end of year         \$ 586,633         486,629           Reconciliation of operating income to net cash used in operating activities:         \$ (33,732)         20,611           Adjustments to reconcile operating income to net cash used in operating activities:         \$ (90,573)         (133,905)           Reclassification of:         (90,573)         (133,905)           Interest income         (26,572)         (28,927)           Interest expense         126,551         127,247           Principal forgiveness         5,672         6,117           Changes in operating assets and liabilities:         195         (288)			, , ,	•
Net increase in cash and cash equivalents  Cash and cash equivalents, beginning of year  Cash and cash equivalents, end of year  Reconciliation of operating income to net cash used in operating activities:  Operating income  Adjustments to reconcile operating income to net cash used in operating activities:  Reclassification of:  Interest income  Contract assistance  Interest expense  Interest expense  Principal forgiveness  Other assets and liabilities, net  100,004  34,744  486,629  451,885   (33,732)  20,611  (90,573)  (133,905)  (26,572)  (28,927)  127,247  6,117  (288)	Sales/maturities of investments, net	_	94,622	92,386
Cash and cash equivalents, beginning of year 486,629 451,885  Cash and cash equivalents, end of year \$ 586,633 486,629  Reconciliation of operating income to net cash used in operating activities:  Operating income \$ (33,732) 20,611  Adjustments to reconcile operating income to net cash used in operating activities:  Reclassification of:  Interest income (90,573) (133,905)  Contract assistance (26,572) (28,927)  Interest expense 126,551 127,247  Principal forgiveness 5,672 6,117  Changes in operating assets and liabilities: Other assets and liabilities, net 195 (288)	Net cash provided by investing activities	_	152,574	76,273
Cash and cash equivalents, end of year \$ 586,633 486,629  Reconciliation of operating income to net cash used in operating activities:  Operating income \$ (33,732) 20,611  Adjustments to reconcile operating income to net cash used in operating activities:  Reclassification of:  Interest income (90,573) (133,905)  Contract assistance (26,572) (28,927)  Interest expense 126,551 127,247  Principal forgiveness 5,672 6,117  Changes in operating assets and liabilities:  Other assets and liabilities, net 195 (288)	Net increase in cash and cash equivalents		100,004	34,744
Reconciliation of operating income to net cash used in operating activities:  Operating income \$ (33,732) 20,611  Adjustments to reconcile operating income to net cash used in operating activities:  Reclassification of:  Interest income (90,573) (133,905)  Contract assistance (26,572) (28,927)  Interest expense 126,551 127,247  Principal forgiveness 5,672 6,117  Changes in operating assets and liabilities:  Other assets and liabilities, net 195 (288)	Cash and cash equivalents, beginning of year		486,629	451,885
Operating income \$ (33,732) 20,611  Adjustments to reconcile operating income to net cash used in operating activities:  Reclassification of:  Interest income (90,573) (133,905)  Contract assistance (26,572) (28,927)  Interest expense 126,551 127,247  Principal forgiveness 5,672 6,117  Changes in operating assets and liabilities:  Other assets and liabilities, net 195 (288)	Cash and cash equivalents, end of year	\$	586,633	486,629
Adjustments to reconcile operating income to net cash used in operating activities:  Reclassification of:  Interest income (90,573) (133,905)  Contract assistance (26,572) (28,927)  Interest expense 126,551 127,247  Principal forgiveness 5,672 6,117  Changes in operating assets and liabilities:  Other assets and liabilities, net 195 (288)				
operating activities:       Reclassification of:         Interest income       (90,573)       (133,905)         Contract assistance       (26,572)       (28,927)         Interest expense       126,551       127,247         Principal forgiveness       5,672       6,117         Changes in operating assets and liabilities:       195       (288)		\$	(33,732)	20,611
Reclassification of:       (90,573)       (133,905)         Interest income       (26,572)       (28,927)         Contract assistance       126,551       127,247         Principal forgiveness       5,672       6,117         Changes in operating assets and liabilities:       195       (288)				
Interest income       (90,573)       (133,905)         Contract assistance       (26,572)       (28,927)         Interest expense       126,551       127,247         Principal forgiveness       5,672       6,117         Changes in operating assets and liabilities:       195       (288)         Other assets and liabilities, net       195       (288)	·			
Contract assistance(26,572)(28,927)Interest expense126,551127,247Principal forgiveness5,6726,117Changes in operating assets and liabilities:195(288)			(00.550)	(400.00=)
Interest expense 126,551 127,247 Principal forgiveness 5,672 6,117 Changes in operating assets and liabilities: Other assets and liabilities, net 195 (288)			,	, , ,
Principal forgiveness 5,672 6,117 Changes in operating assets and liabilities: Other assets and liabilities, net 195 (288)			, , ,	•
Changes in operating assets and liabilities: Other assets and liabilities, net  195 (288)	·			
Other assets and liabilities, net			3,072	0,117
Net cash used in operating activities \$ (18,459) (9,145)	· · ·		195	(288)
	Net cash used in operating activities	\$	(18,459)	(9,145)

See accompanying notes to financial statements.

(A Component Unit of the Commonwealth of Massachusetts)

Notes to Financial Statements

June 30, 2017 and 2016

(Dollars in thousands, unless noted)

### (1) General

### (a) Organization

The Massachusetts Clean Water Trust (the Trust), is a component unit of the Commonwealth of Massachusetts (the Commonwealth). The Trust was created by Chapter 275 of the Acts of 1989, and is governed by Chapter 29C of the Massachusetts General Laws. Pursuant to an Operating Agreement between the United States Environmental Protection Agency (EPA), the Massachusetts Department of Environmental Protection (DEP), and the Trust, executed in 1993 and subsequently amended, the Trust administers the Commonwealth's Clean Water State Revolving Fund (Clean Water SRF) and Drinking Water State Revolving Fund (Drinking Water SRF) programs.

Financial and management activities of the Trust are administered by employees of the Trust who fall under the Office of the State Treasurer. Project evaluation, selection, and oversight are provided by DEP employees.

The Trust is governed by a three-member board of trustees chaired by the State Treasurer and composed of the Secretary for Administration and Finance and the Commissioner of DEP.

#### (b) Description of Business

The SRF programs, which were authorized by federal legislation – the Water Quality Act of 1987 for the Clean Water SRF and the Safe Drinking Water Act of 1996 for the Drinking Water SRF – provide low-cost financing to cities, towns, and other eligible borrowers primarily for the construction and improvement of drinking water and wastewater infrastructure. The Trust's SRF program's primary activities include providing low-cost financing for eligible projects funded by the issuance of debt in the capital markets, providing low cost interim financing for its borrowers, the investment of program funds, and the management and coordination of the programs.

SRF program capitalization grants are issued from the EPA to the Trust, for which the Commonwealth is required to provide 20% in matching funds. The Trust applies such grants and state matching funds and other monies available to the Trust to reduce financing costs by pledging assets to secure the Trust's bonds issued to fund such projects, and by applying investment earnings on such pledged assets to pay a portion of the debt service on the related bonds.

The SRF programs are called the State Revolving Fund programs because as borrowers pay down the principal balances of their loans and as the Trust pays principal on its SRF bonds, proportional amounts are released from the pledged assets securing the related SRF bonds. These funds come back to the Trust and "revolve" or are available to be pledged as a source of payment and security, for new SRF bonds or for other eligible purposes.

Funds pertaining to the SRF programs are limited to specific uses by laws and regulations as well as Grant and Operating Agreements entered into between EPA and the Commonwealth. As a result of these limitations on uses, these funds are classified as restricted on the statements of net position.

(A Component Unit of the Commonwealth of Massachusetts)

Notes to Financial Statements

June 30, 2017 and 2016

(Dollars in thousands, unless noted)

#### (2) Summary of Significant Accounting Policies

The accounting policies of the Trust conform to U.S. generally accepted accounting principles (GAAP) as applicable to government enterprises. The following is a summary of the Trust's significant accounting policies:

#### (a) Basis of Presentation

The Trust's financial statements are prepared using the economic resources measurement focus and the accrual basis of accounting as specified by the Governmental Accounting Standards Board's (GASB) requirements for a special purpose entity engaged solely in business-type activities. The more significant account policies are described below.

#### (b) Revenue Recognition

Operating revenues, including interest income, and expenses are generated through the issuance of loans to local government units within the Commonwealth. All other revenues and expenses are reported as nonoperating revenues and expenses.

Funding from federal capitalization grants and state matching grants are recorded as nonoperating revenue. Federal capitalization revenue is recognized in accordance with funding availability schedules contained within the individual grant agreements. Revenue recognition associated with these grants is based on the standard principles of eligibility, including timing requirements.

The Trust's recent federal capitalization grants require a portion of the grant funds be provided as additional subsidization in the form of principal forgiveness, grants, or negative interest loans. The Trust provides the additional subsidization in the form of principal forgiveness, which has been recorded as an operating expense.

### (c) Cash and Cash Equivalents

The Trust's policy is to treat all highly liquid investments with original maturities of three months or less as cash and cash equivalents.

#### (d) Investments

The Trust's investment guidelines permit investment of funds in obligations of, or guaranteed by, the United States of America or the short-term external investment pool, the Massachusetts Municipal Depository Trust (MMDT), managed by the Commonwealth, as well as in time deposits, guaranteed investment contracts, repurchase agreements, and other permitted investments such as qualified municipal obligations.

In 2016 the Trust implemented GASB 72, Fair Value Measurement and Application. Investments are generally carried at fair value. The investment in MMDT is valued at the share value of \$1.00 and carried at fair value. The guaranteed investment contracts (GICs) are considered nonparticipating investment contracts and therefore are recorded at contract value.

(A Component Unit of the Commonwealth of Massachusetts)

Notes to Financial Statements

June 30, 2017 and 2016

(Dollars in thousands, unless noted)

#### (e) Allowance for Uncollectible Amounts and Principal Forgiveness

The allowance for uncollectible accounts receivables is determined principally on the basis of past collection experience as well as consideration of current economic conditions. Receivables are reported at the gross amount and an allowance for doubtful accounts would be recognized for that portion of receivables that is deemed uncollectible, based upon a review of outstanding receivables, historical collection information, and existing economic conditions and trends. Because of the absence of any delinquent loans, there is no provision for uncollectible amounts.

Loans are reported net of principal forgiveness expected to be provided upon project completion. The amount of principal forgiveness is determined by the Trust's board and is recorded on a first-in, first-out basis as disbursements are processed, up to the total amount of the principal forgiveness awarded to the individual loans.

#### (f) Loan Origination Fees and Costs of Issuance

The Trust requires payment of loan origination fees at the time of the first debt service payment. This origination fee revenue is recorded at the time of the bond closing which is when these fees are earned. Cost of issuance related to the bonds is recorded to general and administrative expenses when incurred.

#### (g) Risk Financing

The Trust is not insured for casualty, theft, tort claims, or other losses. No amounts have been accrued for such losses as they are not considered material. As discussed in note 1, all financial, management, and project oversight activities are provided by employees of the State Treasurer's Office, DEP, and the Executive Office for Administration and Finance. These employees are covered under the Commonwealth's existing employee benefit programs. The cost of these programs is allocated to the Trust, through a fringe benefit allocation. Costs in excess of this amount are borne by the Commonwealth. As a result, no liabilities for employee-related activities have been recorded by the Trust.

### (h) Bond Premium

Bond premium, included in long-term debt, is amortized on a straight-line basis, which approximates the effective interest basis, over the life of the associated bond issue.

#### (i) Use of Estimates

The preparation of financial statements in conformity with GAAP requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities, and disclosure of contingent assets and liabilities, at the date of the financial statements and the reported amounts of revenues and expenditures during the reporting period. Actual results could differ from those estimates.

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#### (i) Derivatives

Derivative instruments are reported as assets or liabilities at fair value on the statement of net position. Changes in fair value are either deferred or reported in the statement of revenues, expenses, and changes in net position, depending on whether the derivative instrument qualifies for hedge accounting.

#### (k) Deferred Inflows and Outflows of Resources

The Trust accounts for certain transactions that result in the consumption or acquisition in one period that are applicable to future periods as deferred outflows and deferred inflows of resources, respectively, to distinguish them from assets and liabilities. For fiscal years 2017 and 2016, the Trust has reported deferred outflows of resources pertaining to its hedging derivative instruments and to the net losses on its debt refunding transactions.

### (I) Reclassifications

Certain reclassifications have been made to the FY 2016 balances to conform to the presentation used in FY 2017.

#### (3) Cash and Cash Equivalents

Cash and cash equivalent for the years ended June 30, 2017 and 2016 are as follows:

	_	2017	2016
Program Equity Funds	\$	496,763	380,623
Revenue Funds		34,378	27,673
Administrative Funds		22,946	20,130
State Match Funds		12,664	16,864
Other Cash Funds	_	19,882	41,339
	\$	586,633	486,629

The Trust's cash and cash equivalents primarily consist of the SRF program equity accounts. Use of these funds are governed by the Clean Water Act and Safe Drinking Water Act, and are required to be kept in perpetuity in support of the State Revolving Fund. These funds are derived from: (1) funds drawn by the Trust from federal capitalization grants and Commonwealth matching funds; (2) other amounts paid to the Trust representing financial assistance provided pursuant to the Act for purposes of deposit in the SRF programs; (3) other amounts appropriated to the Trust by the Commonwealth for purposes of the SRF programs; (4) borrower loan repayments; (5) interest earnings on investments or deposits of amounts held in the program equity accounts; (6) proportional amounts released from the pledged assets available as a result of loan repayments in accordance with the provisions specified in the applicable bond resolutions; and (7) other amounts derived from financing activities of the Trust.

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Revenue Funds are used to account for the proceeds of specific revenue sources that are restricted or committed to expenditures for specific purposes other than debt service. Administrative Funds are funded with fees received pursuant to any financing agreement, all origination fees payable to any loan, and any other amount received by the Trust for such purposes and applied to the payment of reimbursement of administrative costs of the Trust. The State Match Funds represents the net balance of the Commonwealth Matching Grant allocated to the Trust.

Cash and cash equivalents include investments in Massachusetts Municipal Depository Trust (MMDT). The Office of the Treasurer and Receiver-General (Treasury) manages MMDT, the Commonwealth's short-term external mixed investment pool. MMDT is comprised of two portfolios, a Cash Portfolio and a Short Term Bond Portfolio. The Cash Portfolio is a money market like investment pool; its investments are carried at amortized cost, which approximates fair value. The investment in MMDT is valued at the share value of \$1.00 and carried at fair value.

Investors in MMDT are not allowed to overdraw their shares. For a complete copy of MMDT's separately issued financial statements, please contact the Office of the State Treasurer's Cash Management Department, at (617) 367-9333 or download the statements from the Cash Management Section of the Office of the State Treasurer's Web site at www.mass.gov/treasury. For purposes of risk categorization, MMDT shares are not categorized.

Custodial Credit Risk – Custodial credit risk is the risk that, in the event of a bank failure, the Trust's deposits may not be returned to it. Cash balances represent amounts held in bank depository accounts that may be subject to custodial credit risk. The Trust had no significant amount of cash on deposit with banks at June 30, 2017 and 2016.

### (4) Project Fund Deposits

The project fund deposits are held by the Trustee and disbursed in accordance with executed loan agreements. Project fund deposits are disbursed to borrowers as needed. These funds are restricted and are to be disbursed solely for the applicable project costs associated with the applicable loan financing agreement. When all costs have been paid, any amounts remaining unexpended in the project fund deposits will normally be applied to the repayment of the applicable borrower's principal. Project fund deposits are invested as part of the MMDT Cash Portfolio. As of June 30, 2017 and 2016, the Trust had \$66,573 and \$50,243, respectively, held in project fund deposits.

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### (5) Investments

Investments for the years ended June 30, 2017 and 2016 are as follows:

	_	June 30, 2017					
		Guaranteed	Guaranteed MMDT				
		investment	U.S. Treasuries	short-term	Total		
	_	contracts	and agencies	bond portfolio	investments		
Less than 1 year	\$	112,538	14,301	94,331	221,170		
One to five years		211,582	77,942	_	289,524		
Six to ten years		156,044	68,886	_	224,930		
More than ten years	_	56,285	124,788		181,073		
	\$_	536,449	285,917	94,331	916,697		

	_	June 30, 2016					
	_	Guaranteed					
		investment	U.S. Treasuries	short-term	Total		
	-	contracts	and agencies	bond portfolio	investments		
Less than 1 year	\$	119,927	13,432	92,765	226,124		
One to five years		226,720	76,224	_	302,944		
Six to ten years		181,703	77,004	_	258,707		
More than ten years	_	74,577	152,363		226,940		
	\$_	602,927	319,023	92,765	1,014,715		

Investments primarily consist of debt service reserve accounts that were established as security for certain series of bonds issued by the Trust. The amount deposited in each debt service reserve account was determined at the time of the issuance of the bonds, and varied from 33% to 50% of the par amount of the bonds issued. In most cases, Debt Service Reserve Funds were funded from the SRF program equity accounts. Interest earnings on the debt service reserve accounts are used for debt service payments. The Trust's debt service reserve accounts are invested in either Guaranteed Investment Contracts (GICs) or U.S. Treasuries and Agencies.

Since 2012, the Trust has been pledging direct loans as security for its bonds rather than establishing debt service reserve funds. As a result, the debt service reserve fund investment balance continues to decline as scheduled maturities occur.

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Custodial Credit Risk – Custodial credit risk for investments is the risk that, in the event of a failure of the counterparty, the Trust will not be able to recover the value of the investment or collateral securities that are in the possession of an outside party. The Trust requires that all investment agreements be collateralized either upon execution of such agreement or upon the happening of certain events, and at all times thereafter, by securities or other obligations issued or guaranteed by the United States, by certain federal agencies or corporations or, in some cases, by corporate or municipal issuers rated "AAA" by S&P Global Ratings and "Aaa" by Moody's, having a market value of not less than 102% of the amount currently on deposit or in accordance with their respective agreement.

Credit Risk – The majority of the Trust's investments are in GICs or in U.S. Treasuries and Agencies. The U.S. Treasuries and Agencies are all backed by the federal government. The GICs either have collateral requirements in place upon execution of the investment agreement, or have triggered collateral requirements under which, upon a rating downgrade below a specified level, the counterparty is typically required to take one of three actions: 1) post collateral to a level sufficient to maintain an AA rating, 2) assign the investment contract to a new counterparty that has at least an AA rating, or 3) provide credit enhancement to maintain a rating on the investment contract of at least AA. MMDT and the GICs are not rated.

Interest Rate Risk – Interest rate risk is the risk that changes in interest rates will adversely affect the fair value of the Trust's investments. The Trust limits its exposure to interest rate risk by entering into guaranteed investment contracts and federally guaranteed fixed income securities for all of its long-term investments upon which the Trust relies to meet its obligations. The Trust's U.S. Treasuries and Agencies investment portfolio was structured in its principal and interest return to support debt service on the related bonds.

Fair Value Disclosure – Investments – The Trust categorizes its fair value investments within the fair value hierarchy established by generally accepted accounting principles. GASB defines a certain hierarchy of inputs to valuation techniques used to measure fair value. All of the Trust's investments in U.S. Treasuries and Agencies are categorized as Level 2.

Inputs within Level 2 of the fair value hierarchy include inputs that are directly observable, these inputs are derived principally from or corroborated by observable market data through correlation or by other means. Investments in debt securities classified as Level 2 of the fair value hierarchy are valued using matrix pricing techniques, in accordance with market quotations or valuation methodologies from reliable financial industry services.

Under existing standards, several types of investments are not required to be reported at fair value. The investment in MMDT is valued at the share value of \$1.00 and carried at fair value. The Short Term Bond Portfolio investments are carried at fair value. For purposes of risk categorization, MMDT shares are not categorized. The GICs are considered nonparticipating investment contracts and are also excluded from the Statement on fair value measurement. These investment values will continue to be measured in accordance with existing accounting standards, and are recorded at contract value.

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Concentration of Credit Risk – Concentration of credit risk is the risk of loss attributed to the magnitude of an entity's investment in a single issuer. The following list sets forth the guaranteed investment contract providers with which the Trust's investments exceed 5% of the Trust's total investment balance.

		2017		2016	
Provider:					
Dexia Credit Local/FSA Capital					
Management Services, LLC	\$	159,954	20 % \$	182,556	20 %
Mass Mutual Financial Group /					
Trinity Funding Company, LLC*		135,089	17	143,976	16
Natixis Funding Corp. f/k/a lxis Funding	ı				
Corp., CDC Funding Corp.		131,201	16	146,973	16
Citigroup Global Markets Inc.		84,130	10	91,363	10

<sup>\*</sup> Trinity sold to MassMutual its interests in certain investment agreements; represents MassMutual's substitution of Trinity GICs

#### (6) Capitalization Grants

The Trust is awarded clean water and drinking water grants from the EPA. These grants require that the Trust enter into binding commitments with local government units within one year of the receipt of each federal grant award to provide assistance in an amount equal to 120% (including 20% state matching grants) of each grant award. Each federal capitalization grant contains federally mandated set-asides, including a 4% administrative allowance, that result in total grant funding actually being 83.3% federal and 16.7% state.

The periodic grant draws by the Trust on its federal and state grants are based on the amount of incurred costs for certain eligible projects or activities. State matching grant revenue is recognized the year it is drawn from the Commonwealth. Federal grant revenue is recognized in accordance with the funding schedules contained within the individual grant agreements. The federal grant agreements begin October 1 and end September 30 in conformity with the federal fiscal year. Federal grant funds are made available in equal quarterly installments based on the federal fiscal year.

The following table depicts the Trust's grant receivable by program:

	Clean Water Program		Drinking Wa	ter Program	Total Program	
	Federal	State	Federal	State	Federal	State
Grants receivable at June 30, 2016	47,360	_	2,307	_	49,667	_
Project Grant Aw ard/Match – FFY 2016 Admin/Set Asides Grant – FFY 2016	43,186 2,177	9,073	10,661 4,790	3,090	53,847 6,967	12,163
Total Grant Aw ard/Match	45,363	9,073	15,451	3,090	60,814	12,163
Grant Funds Drawn	(65,631)	(9,073)	(16,036)	(3,090)	(81,667)	(12,163)
Grants receivable at June 30, 2017	27,092		1,722		28,814	

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	Clean Water Program		Drinking Wat	ter Program	Total Program		
	Federal	State	Federal	State	Federal	State	
Grants receivable at June 30, 2015 \$	52,573	_	11,767	_	64,340	_	
Project Grant Aw ard/Match – FFY 2015 Admin/Set Asides Grant – FFY 2015	45,087 2,273	9,472	11,270 5,063	3,266	56,357 7,336	12,738	
Total Grant Aw ard/Match	47,360	9,472	16,333	3,266	63,693	12,738	
Grant Funds Drawn	(52,573)	(9,472)	(25,793)	(3,266)	(78,366)	(12,738)	
Grants receivable at June 30, 2016 \$	47,360		2,307		49,667		

Federal capitalization revenue is recognized in accordance with funding availability schedules contained within the individual grant agreements.

The following table depicts the Trust's capitalization grant revenue by grant:

		Clean Water Program		Drinking Wat	er Program	Total Programs		
	_	2017	2016	2017	2016	2017	2016	
Federal FY 2016 grant Federal FY 2015 grant	\$	34,022 11.840	— 35,520	11,588 4.084	 12,250	45,610 15.924	 47,770	
Federal FY 2014 grant	_		11,901		4,110		16,011	
Total grant revenue -	-							
EPÄ	\$_	45,862	47,421	15,672	16,360	61,534	63,781	
State match – FY 2016 grant State match – FY 2015 grant	\$	9,073	— 9,472	3,090	 3,266	12,163 —	 12,738	
· ·	_							
Total grant revenue -								
State Match	\$_	9,073	9,472	3,090	3,266	12,163	12,738	

### (7) Loans Receivable and Bonds Purchased

The Trust provides low-cost financing to cities, towns, and other eligible borrowers primarily for the construction and improvement of drinking water and wastewater infrastructure. These loans are provided under the Trust's Clean Water SRF, Drinking Water SRF, and Community Septic Management Programs.

Each loan to a borrower is in the form of either a loan or a bond purchase agreement, and is pursuant to a financing agreement between the Trust and the borrower. Pursuant to an agreement made with the EPA, projects financed for greater than 20 years are financed through a bond purchase agreement. Pursuant to the financing agreements, each borrower delivers its own general or special obligation bond to the Trust referred to as a "local bond," in order to secure its loan repayment obligations. The Trust may provide loans under its Clean Water SRF and Drinking Water SRF programs with terms up to 30 years, but in no event does the Trust make a loan longer than the expected useful life of the project financed or refinanced by

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such loan. The Trust's loans to borrowers are funded either through SRF bond proceeds (leveraged loans), or funded with SRF program equity funds (direct loans).

The Trust recognizes the need for construction funds to be available to borrowers throughout the year, not simply at the time of an annual Trust bond issue. This need is addressed by making funds available to eligible projects through the interim loan program. Interim loans are temporary loans provided by the Trust to local governmental units or other eligible borrowers in accordance with a financing agreement for all or any part of the cost of a project in anticipation of a leveraged or direct loan.

A summary of loan receivables as of June 30, 2017 and 2016 is as follows:

	_	2017	2016
Leveraged loans	\$	3,510,721	3,527,080
Direct loans pledged for bond debt service		470,330	394,770
Other direct loans	_	8,401	9,909
Total permanently financed loans receivable		3,989,452	3,931,759
Interim loans		173,023	172,334
Principal forgiveness	_	(57,056)	(55,026)
Total loans receivable		4,105,419	4,049,067
Less current portion loans receivable	_	389,912	384,195
Long-term portion – loans receivable	\$_	3,715,507	3,664,872

The interim loan receivable balances were \$173,023 and \$172,334 as of June 30, 2017 and 2016, respectively. Additionally, the interim loan balances represent disbursements of construction funds of \$57,056 and \$55,026, respectively, to borrowers for which a subsidy was provided in the form of principal forgiveness. The subsidized interim loan amounts will be legally forgiven as the applicable projects are completed.

The Trust offers principal forgiveness to borrowers, based on eligibility criteria defined by the Trust's board. Principal forgiveness can assist borrowers in their efforts to comply with water quality standards by making projects even more affordable. Loans funded by principal forgiveness grants are advanced to local agencies on a cost reimbursement basis up to the amount of the awarded principal forgiveness. Loan agreements require repayment of the forgiven loan if all program requirements are not met.

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Interim loans totaling \$233,448 were permanently financed as part of the Trust's Series 20 bond issuance in April 2017. In connection with the issuance of the Series 20 bonds, the Trust pledged \$92,682 of its program assets. The pledged assets were loans to borrowers funded with SRF program equity funds. The interest collected on these loans will be applied to pay a portion of the debt service on the Series 20 bonds, thereby supplementing the loan repayment obligations of the local borrowers while the principal payments collected on the direct loans are pledged as further security for the Trust's bonds. The Series 20 bonds are the fifth Series of Trust SRF Bonds to use this approach. As of June 30, 2017, the Trust has \$470.3 million in direct loans pledged for the purpose of paying debt service on Trust bonds.

Aggregate principal maturities on loans receivable or bonds purchased are as follows:

			Direct loans used		Total permanently
		Leveraged	for bond	Other	financed
	_	loans	debt service	direct loans	loans
Years ending June 30:					
2018	\$	252,916	20,402	627	273,945
2019		259,083	20,844	627	280,554
2020		253,639	21,277	628	275,544
2021		247,143	21,733	628	269,504
2022		233,699	22,131	629	256,459
2023-2027		1,057,361	115,043	3,149	1,175,553
2028–2032		699,129	120,043	2,113	821,285
2033–2037		377,056	80,513	_	457,569
2038-2042		97,610	29,688	_	127,298
2043–2047	_	33,085	18,656		51,741
	\$_	3,510,721	470,330	8,401	3,989,452

The Trust's loans to its borrowers are subsidized by interest earnings on its pledged assets which include Debt Service Reserve Funds, direct loans and contract assistance provided to the Trust by the Commonwealth. Although borrowers are obligated to the Trust to make scheduled payments, these subsidies are expected to be available for the duration of the loan financing agreements. The Commonwealth has committed to provide contract assistance in the amount of \$300.7 million over 30 years. This obligation of the Commonwealth to the Trust is a general obligation of the Commonwealth, for which its full faith and credit are pledged. Annual appropriations are made each year by the Commonwealth to fund the current year's obligation.

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#### (8) Bonds Payable

The Trust issues special obligation bonds under its SRF programs to provide low cost financing to cities, towns and other eligible borrowers primarily for the construction and improvement of drinking water and wastewater infrastructure. Coupons on the bonds range from approximately 3.0% to 6.0% and each series is payable semiannually with the latest maturity occurring in FY 2047. The financial assistance is provided pursuant to leveraged loans and bond purchase agreements between the Trust and each borrower as described in note 7.

The Series 20 Bonds and the Series 2017 Refunding Bonds, issued on April 13, 2017, were the third and fourth Series of the Trust's bonds to be issued under and secured by the Master Trust Agreement (MTA). MTA Bonds are payable solely from the funds pledged to the MTA which include repayments on all loans financed through the MTA Program, together with contract assistance payments, and earnings on certain funds held under the MTA. All other Series of Trust bonds are payable from amounts pledged pursuant to the individual Water Pollution Abatement and Drinking Water Project Bond Resolutions, which include payments by local governmental units of principal and interest on the loans, contract assistance, and earnings on amounts on deposit in the Debt Service Reserve Funds or interest received on certain direct loans made by the Trust.

Pursuant to the Commonwealth Assistance Contract (the Contract), the Commonwealth has agreed to provide contract assistance payments to the Trust to reduce the payments by local government units. The Contract is pledged as security for the bonds; and contract assistance payments, when received by the Trust are pledged as security for the bonds.

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The following is a summary of bonds payable at June 30, 2017 and 2016:

		Final		Balance			Balance	Due within
Bond issue	Issue date	maturity		June 30, 2016	Additions	Reductions	June 30, 2017	one year
Water pollution abatement								
revenue bonds:								
MWRA Series 2002A	10/15/2002	8/1/2032	\$	9,100		930	8,170	890
SESD Series 1996A	12/5/1996	8/1/2016		285	_	285	_	_
Pool loan program:								
Series 6	11/6/2000	8/1/2023		3,165	_	_	3,165	_
Series 7	7/15/2001	2/1/2023		1,530	_	_	1,530	_
Series 8	11/15/2002	8/1/2026		10,360	_	1,630	8,730	1,450
Series 9	10/10/2003	8/1/2027		15,650	_	1,700	13,950	1,535
Series 11	10/19/2005	8/1/2025		41,960	_	235	41,725	235
Series 12	12/14/2006	8/1/2026		40,980	_	18,150	22,830	_
Series 14	3/18/2009	8/1/2038		163,120	_	16,625	146,495	17,080
Series 15	7/8/2010	8/1/2040		365,860	_	35,955	329,905	18,215
Series 16 A & B	6/13/2012	8/1/2042		215,960	_	63,700	152,260	9,760
Series 17 A & B	7/22/2013	2/1/2043		179,395	_	7,400	171,995	7,680
Series 18	1/7/2015	2/1/2045		220,915	_	7,775	213,140	7,990
Series 19	2/11/2016	2/1/2046		207,805		7,545	200,260	8,050
Series 20	4/13/2017	2/1/2047			207,350	_	207,350	7,040
Subordinated revenue								
refunding bonds:								
MWRA 1999A	11/3/1999	8/1/2029		54,040	_	_	54,040	17,445
Pool program refunding bonds:								
Series 2004A	8/25/2004	8/1/2027		261,110	_	50,990	210,120	48,800
Series 2006	12/14/2006	8/1/2034		408,215		10,685	397,530	35,295
Series 2009A	7/30/2009	8/1/2029		148,330		13,305	135,025	560
Series 2010A	7/8/2010	2/1/2026		27,255	_	2,180	25,075	2,285
Series 2012A	6/13/2012	8/1/2032		93,020	_	46,180	46,840	500
Series 2014	6/12/2014	8/1/2028		524,875	_	42,890	481,985	46,675
Series 2017	4/13/2017	8/1/2029	_		96,280		96,280	
Subtotal				2,992,930	303,630	328,160	2,968,400	231,485
Add unamortized bond premiums			_	335,272	50,947	38,410	347,809	
Total bonds payable			\$_	3,328,202	354,577	366,570	3,316,209	231,485

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The following is a summary of bonds payable at June 30, 2016 and 2015:

		Final		Balance June 30.			Balance June 30.	Due within
Bond issue	Issue date	maturity		2015	Additions	Reductions	2016	one year
Water pollution abatement								
revenue bonds:								
MWRA Series 2002A	10/15/2002	8/1/2032	\$	10,060	_	960	9,100	930
SESD Series 1996A	12/5/1996	8/1/2016		890	_	605	285	285
New Bedford 1996A	7/10/1996	2/1/2016		270	_	270	_	_
Pool loan program:								
Series 6	11/6/2000	8/1/2023		4,085	_	920	3,165	_
Series 7	7/15/2001	2/1/2023		1,530	_	_	1,530	_
Series 8	11/15/2002	8/1/2026		12,150	_	1,790	10,360	1,630
Series 9	10/10/2003	8/1/2027		28,905	_	13,255	15,650	1,700
Series 11	10/19/2005	8/1/2025		54,680	_	12,720	41,960	235
Series 12	12/14/2006	8/1/2026		58,640	_	17,660	40,980	18,150
Series 14	3/18/2009	8/1/2038		179,380	_	16,260	163,120	16,625
Series 15	7/8/2010	8/1/2040		382,980	_	17,120	365,860	17,635
Series 16 A & B	6/13/2012	8/1/2042		225,130	_	9,170	215,960	9,415
Series 17 A & B	7/22/2013	2/1/2043		186,760	_	7,365	179,395	7,400
Series 18	1/7/2015	2/1/2045		228,155	_	7,240	220,915	7,775
Series 19	2/11/2016	2/1/2046			207,805	_	207,805	7,545
Subordinated revenue								
refunding bonds:								
MWRA 1999A	11/3/1999	8/1/2029		54,040	_	_	54,040	_
Pool program refunding bonds:								
Series 2004A	8/25/2004	8/1/2027		309,980	_	48,870	261,110	50,990
Series 2006	12/14/2006	8/1/2034		408,215	_	_	408,215	10,685
Series 2009A	7/30/2009	8/1/2029		161,890	_	13,560	148,330	13,305
Series 2010A	7/8/2010	2/1/2026		32,525	_	5,270	27,255	2,180
Series 2012A	6/13/2012	8/1/2032		105,715	_	12,695	93,020	16,520
Series 2014	6/12/2014	8/1/2028	-	565,610		40,735	524,875	42,890
Subtotal				3,011,590	207,805	226,465	2,992,930	225,895
Add unamortized bond premiums			_	320,762	37,335	22,825	335,272	
Total bonds payable			\$	3,332,352	245,140	249,290	3,328,202	225,895

On April 13, 2017, the Trust issued State Revolving Fund Bonds Series 20 (Green Bonds) in the amount of \$207.4 million with a premium of \$32.2 million. The Trust has designated the Series 20 bonds as "Green Bonds" based on the intended use of the proceeds of the Series 20 Bonds for the financing of projects that adhere to the federal Clean Water Act and Safe Drinking Water Act, as determined by the Environmental Protection Agency (EPA). The Series 20 Bonds were issued to finance or refinance costs of certain wastewater and drinking water projects for governmental units or other eligible borrowers. Series 20 Bond proceeds in the amount of \$167.5 million were applied to fund loans for projects under the clean water SRF and \$72.1 million of proceeds were applied to fund loans for projects under the drinking water SRF. The Trust anticipates expending all the proceeds within three years. In connection with the issuance of the Series 20 bonds, the Trust pledged \$65.9 million of direct loans for projects under the clean water SRF and \$26.8 million of direct loans for projects under the drinking water SRF. The interest payments on these pledged direct loans will be used to pay a portion of the debt service due on the Series 20 bonds.

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On April 13, 2017, the Trust issued State Revolving Fund Refunding Bonds, Series 2017 in the amount of \$96.3 million with a premium of \$18.8 million. The Series 2017 Refunding Bonds were issued, together with other funds of the Trust, to refund certain bonds previously issued by the Trust. The Trust used \$1.0 million of its program equity cash to refund optimal current refunding candidates from Series 15, 16 and the 2012 Refunding. These proceeds were deposited with an escrow agent to provide resources for all future debt service payments on the refunded bonds. As a result, the refunded bonds are considered to be defeased and the liability has been removed from the financial statements. The total debt defeased through this new issue was \$102.3 million, for a cash flow savings of \$7.9 million, resulting in an economic gain (net present value) of \$6.7 million.

On February 11, 2016, the Trust issued its State Revolving Fund Bonds, Series 19 (Green Bonds) in the amount of \$207.8 million. The proceeds of the Series 19 Bonds were used to finance or refinance certain wastewater and drinking water projects in 47 communities. The Trust designated the Series 19 bonds as "Green Bonds" based on the intended use of the proceeds of the Series 19 Bonds for the financing of projects that adhere to the federal Clean Water Act and Safe Drinking Water Act, as determined by the EPA. Proceeds in the amount of \$145.7 million were applied to fund loans for projects under the Clean Water SRF and \$99.4 million of proceeds were applied to fund loans for projects under the Drinking Water SRF. The Trust anticipates expending all of the proceeds within three years. In connection with the issuance of the Series 19 Bonds, the Trust pledged \$58.4 million of direct loans for projects under the Clean Water SRF and \$39.8 million of direct loans for projects under the Drinking Water SRF. The interest payments on these pledged direct loans will be used to pay a portion of the debt service due on the Series 19 bonds.

At June 30, 2017, debt service requirements to maturity for principal and interest are as follows:

		Total debt service	Principal	Interest
Year ending June 30:	=			
2018	\$	368,944	231,485	137,459
2019	•	359,303	230,280	129,023
2020		344,048	226,295	117,753
2021		325,793	219,160	106,633
2022		297,297	201,245	96,052
2023–2027		1,252,118	914,780	337,338
2028–2032		713,591	553,480	160,111
2033–2037		331,822	272,490	59,332
2038–2042		103,941	86,485	17,456
2043–2047	_	36,265	32,700	3,565
Total debt service requirements	\$	4,133,122	2,968,400	1,164,722

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In the current year and in prior years, the Trust has deposited bond proceeds from refunding bonds with an escrow agent to provide resources for all future debt service payments on the refunded bonds. As a result, the bonds are considered to be defeased and the liability has been removed from the financial statements. The balances of bonds defeased "in substance" in the current year or prior years, and still outstanding as of June 30, 2017 are as follows:

		Outstanding prin	cipal amount
Description	Redemption date	2017	2016
MWRA loan program:			
Series 1998A	November 3, 1999 \$	16,720	24,660
Pool loan program:			
Pool 12	August 11, 2009	_	31,430
Pool 12	June 12, 2014	_	162,385
Pool 12	March 31, 2015	_	56,280
Pool 13	June 12, 2014	243,225	256,965
Pool 14	June 12, 2014	137,595	137,595
Pool 15	April 13, 2017	18,320	_
Pool 16	April 13, 2017	54,285	_
Series 2012 refunding	April 13, 2017	29,660	_

When the Trust refunds or advance refunds it bonds, it calculates the difference between the reacquisition price and the net carrying amount of the old debt. The resulting accounting gain or loss is then amortized generally over the life of the refunding bonds. The net unamortized excess of acquisition price and the net carrying value of the defeased bonds are recorded in deferred outflows of resources on the Statement of Net Position.

Excess of reacquisition price over net carrying value of defeased bonds (deferred outflows of resources – see note 12):

	 2017	2016
Beginning balance	\$ 94,449	102,710
Additions	691	_
Reductions	 (10,090)	(8,261)
Ending balance	\$ 85,050	94,449

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# (9) Net Position

As of June 30, 2017 and 2016, the Trust has a restricted net position in the amount of \$1,899,565 and \$1,838,451, respectively, and an unrestricted net position in the amount of \$476,986 and \$498,135, respectively. Restricted net position represents capitalization grants received cumulative to date from the EPA and corresponding matching amounts received from the Commonwealth, required to revolve back to the program. The capitalization grants are restricted to provide financial assistance, but not grants, to local communities and interstate agencies for the construction of wastewater treatment works, drinking water infrastructure improvements, and other related projects as described in note 1.

### (10) Commitment

As of June 30, 2017 and 2016, the Trust has agreed to provide loans to various local government units amounting to approximately \$135,585 and \$163,748, respectively, excluding loan amounts already disbursed, which will be funded or collateralized with grant awards received by the Trust.

#### (11) Derivative Transactions

Interest Rate Swap Agreements – \$77,255 dated November 21, 2006.

Objective of the Interest Rate Swap – As a means to lower its borrowings costs, when compared with fixed-rate bonds at the time of their issuance in November 2006, the Trust entered into two interest rate swap agreements in connection with its Pool Program Refunding Bonds, Series 2006 bonds. The intention of the swaps was to hedge the Trust's exposure to interest rate risk by effectively changing the Trust's variable rate bonds maturing in 2022 and 2023 to a synthetic fixed rate of 3.88% and 3.90%, respectively. The Series 2006 carry an interest rate indexed to the Municipal Consumer Price Index (Muni-CPI).

Terms – Under the terms of these swaps, the Trust agrees to receive a variable rate, based on the Muni-CPI, equal to the amounts due on variable rate bonds issued by the Trust concurrently with the execution of the swap agreement. The Trust agrees to pay a fixed rate to the counterparty. Payments are made semiannually, due August 1 and February 1 of each year, on the same schedule as the fixed rate bonds issued in December 2006. The counterparty is JP Morgan Chase & Co. JP Morgan Chase Bank, N.A. The terms of each swap agreement are summarized below:

	Termination	Termination
Trade date	November 21, 2006	November 21, 2006
Effective date	December 14, 2006	December 14, 2006
Termination date	August 1, 2022	August 1, 2023

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2022

2023

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	_	2022 Termination	2023 Termination
Notional amount Fair value at June 30, 2017 Fair value at June 30, 2016	\$	30,650 (1,311) (2,361)	46,605 (2,293) (4,100)
Variable rate bond coupon payments		Muni-CPI* rate + 0.99%	Muni-CPI* rate + 0.99%
Variable rate payment from counterparty		Muni-CPI* rate + 0.99%	Muni-CPI* rate + 0.99%
Fixed-rate payment to counterparty Synthetic fixed rate on bonds		3.88 % 3.88	3.90 % 3.90

<sup>\*</sup> Muni-CPI rate is equal to the quotient of (1) the Reference CPI-U for the current debt service payment date minus the prior Reference CPI-U divided by (2) the prior Reference CPI-U. Reference refers to 3 months preceding the debt service payment date. Prior Reference period refers to 15 months preceding the debt service payment date.

Fair Value – The swaps had an aggregate negative fair value as of June 30, 2017 and 2016, which means on the August 1, 2017 debt service payment date the Trust will make a payment to the swap counterparty. At June 30, 2017 and 2016, the fair value of these swaps is reflected as a liability for derivative instruments and deferred outflows in the accompanying financial statements. GASB defines certain hierarchy of inputs to valuation techniques used to measure fair value. Derivative instruments are classified as Level 2 of the fair value hierarchy using the zero coupon method. This method calculates the future net settlement payments/receipts required by the swap, assuming that the current forward rates implied by the yield curve correctly anticipate future spot interest rates. These payments are then discounted using the spot rates implied by the current yield curve for hypothetical zero coupon bonds due on the date of each future net settlement of the swap.

Credit Risk – As of June 30, 2017 and 2016, the Trust is not exposed to credit risk because the swaps had a negative fair value. Prior to January 5, 2009, the swap counterparty was Bear Stearns Capital Markets, Inc. As of January 5, 2009, the counterparty is JP Morgan Chase & Co. JP Morgan Chase Bank, N.A. and is rated AA-/Aa1/AA-by S&P Global Ratings, Moody's Investors Service, and Fitch Ratings, respectively. To mitigate credit risk, the Trust has the right to terminate the swap upon a ratings downgrade by the counterparty's credit support provider below BBB-/Baa3 by S&P Global Ratings, and Moody's Investors Service, respectively.

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Termination Risk – The swap contract uses the International Swaps and Derivatives Association Master Agreement, which includes standard termination events, such as failure to pay and bankruptcy. In addition, the Trust may terminate upon a ratings downgrade by the counterparty, as described above. The Trust and the counterparty may terminate if either party fails to perform under the terms of the Contract. If at the time of termination, the swap has a negative fair value, the Trust would be liable to the counterparty for a payment equal to the swap's fair value. The source of funds for this payment is from "legally available funds." Legally available funds is defined as, "funds held in the Trust's Federal Clean Water State Revolving Fund or Drinking Water State Revolving Fund...only to the extent that Congress passes a law or EPA adopts a regulation or issues an opinion or other notice...making such amounts legally available to pay settlement amounts."

Swap Payments and Hedged Debt – In accordance with the swap agreement, the variable rate is calculated using the preceding 3 months' Muni-CPI rate with settlement payments made on the debt service payment dates of February 1 and August 1. As of June 30, 2017, the variable rate was calculated using the May 31, 2017 Muni-CPI rate. Assuming this rate remains the same, the debt service requirements of the variable rate debt and the net swap payments are presented in the table below. As the Muni-CPI rate varies, the variable rate payments on the bonds and the variable rate receipts from the swap are equal, the net debt service will remain fixed.

	_	Variable rate bonds <sup>1</sup>		Net swap	Total
	_	Principal	Interest	payments <sup>2</sup>	debt service
Fiscal year ending June 30:					
2018	\$	_	2,193	814	3,007
2019		_	2,193	814	3,007
2020		_	2,193	814	3,007
2021		_	2,193	814	3,007
2022		_	2,193	814	3,007
2023		_	2,193	814	3,007
2024		30,650	1,758	654	33,062
2025		46,605	662	247	47,514

<sup>&</sup>lt;sup>1</sup> Calculated rate uses May 31, 2017 Muni-CPI rate to reflect debt service payment for August 1, 2017.

<sup>&</sup>lt;sup>2</sup> A positive net swap payment requires a payment from the Trust to the counterparty.

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### (12) Deferred Outflows of Resources

The following is a summary of deferred outflows of resources at June 30, 2017 and 2016:

	 2017	2016
Deferred outflows of resources:		
Derivative instruments (note 11)	\$ 3,604	6,461
Excess of reacquisition price over net carrying value of		
defeased bonds (note 8)	 85,050	94,449
	\$ 88,654	100,910