

Report of

Boston Groundwater Trust

June 30, 2019



Boston Groundwater Trust

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www.bostongroundwater.org

November 30th, 2019

Board of Trustees

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Executive Director

Christian Simonelli

ANNUAL REPORT - FISCAL YEAR 2019

The Boston Groundwater Trust was established by the Boston City Council to monitor groundwater levels in sections of the City where the integrity of building foundations, especially those supported by wood pilings, is threatened by low groundwater levels and to make recommendations for solving the problem. In Fiscal Year 2019 (7/1/18 through 6/30/19), we continued to make headway on these efforts.

Public outreach and awareness efforts were undertaken as the Trust presented the groundwater issue to several residents, city departments and agencies, neighborhood groups, law firms, and real estate brokerages throughout the past year.

The Trust's primary responsibility is to maintain our approximately 800 observation well network, to measure groundwater elevations, and to distribute the data to the public. The Trust continued to maintain the well network by installing new wells during the year. Those installations were completed on time and under budget.

Our principal means of communication is our website, www.bostongroundwater.org. Traffic on the Trust's website remained steady this past year. The site includes our interactive map with current and historic groundwater level data on all of our observation wells, as well as updated organization documents, executive director reports, project comment letters, news stories about groundwater issues, building piling cutoff information, and Groundwater Conservation Overlay District (GCOD) information. Well readings are posted as soon as they are available and we continue to read the well network 6-8 times per year.

The Trust is an active participant in the quarterly meetings of the City-State Groundwater Working Group which includes all of the public bodies that have significant underground infrastructure in areas where many buildings are supported on wood pilings. All Working Group meetings open with a review and analysis of the latest observation well readings throughout the areas of concern in the City. Participation continues to be excellent, with all agencies responding to the Trusts requests for information and investigations into areas where we have low groundwater levels.

The Trust's work at addressing the groundwater problem can only be effective with the cooperation of many others. In addition to the Trust's partners on the Working Group, the Boston Planning and Development Agency has made the evaluation of groundwater impacts a requirement of the Article 80 development review process for all projects. During the year, the Trust formally commented on 15 project submittals.

The Inspectional Services Department (ISD) and the Zoning Board of Appeals continue to be diligent in assuring that all qualifying projects comply with the requirements of the Groundwater Conservation Overlay District. The Boston Water and Sewer Commission (BWSC) has been helpful in determining that the required recharge systems are properly sized and designed. To date over 700 recharge systems have been approved and installed through the GCOD process, directing rainfall into the ground rather than the sewer system. We have worked with ISD and other City agencies to streamline the GCOD process which has reduced project delays without losing the benefits gained through the process.

The success of the Trust's efforts would not be possible without the support of the Mayor, the City Council and the Department of Environment, Energy and Open Space. Once again in FY19, the Trust's request for operating funds was approved by the City and the Trust also received an annual grant from the BWSC. The Trust's operations for the year were once again conducted within its annual budget.

The Trust's success is also predicated on the efforts of our 13 Trustees, who serve without compensation. The Trustees meet bimonthly and review all operations of the Trust, setting policy and providing guidance for the Executive Director. Also critical to the Trust's success are the nine volunteer members of the Technical Advisory Committee, all local engineers and scientists who are identified on our website. The committee meets regularly to help the Trust interpret the results of its well readings and develop strategies for addressing problems.

While important strides have been made in addressing groundwater problems, it is important to remember that the wood piling supported structures that represent so much of Boston's history will always be vulnerable to lowered groundwater levels. All of us who are concerned about Boston must continue to monitor levels, repair leaking infrastructure, assure that new projects do not cause drawdowns, advocate for porous pavements, and recharge rainwater into the ground so that these buildings, located in the filled land of Boston's neighborhoods, can continue to protect the economic viability of a substantial tax base asset and also help to preserve the historic character of this magnificent city.

Cordially Yours,



Christian Simonelli
Executive Director

Independent Accountant's Review Report

To the Board of Trustees of
The Boston Groundwater Trust
Boston, Massachusetts

We have reviewed the accompanying financial statements of Boston Groundwater Trust (a nonprofit organization), which comprise the statements of financial position as of June 30, 2019 and 2018, and the related statements of activities and cash flows for the years then ended, and the related notes to the financial statements. A review includes primarily applying analytical procedures to management's financial data and making inquiries of management. A review is substantially less in scope than an audit, the objective of which is the expression of an opinion regarding the financial statements as a whole. Accordingly, we do not express such an opinion.

Management's Responsibility for the Financial Statements

Management is responsible for the preparation and fair presentation of these financial statements in accordance with accounting principles generally accepted in the United States of America; 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.

Accountant's Responsibility

Our responsibility is to conduct the review engagements in accordance with Statements on Standards for Accounting and Review Services promulgated by the Accounting and Review Services Committee of the AICPA. Those standards require us to perform procedures to obtain limited assurance as a basis for reporting whether we are aware of any material modifications that should be made to the financial statements for them to be in accordance with accounting principles generally accepted in the United States of America. We believe that the results of our procedures provide a reasonable basis for our conclusion.

Accountant's Conclusion

Based on our review, we are not aware of any material modifications that should be made to the accompanying financial statements in order for them to be in accordance with accounting principles generally accepted in the United States of America.

Respectfully submitted,



Raphael and Raphael LLP
Certified Public Accountants

Boston, Massachusetts
November 13, 2019

BOSTON GROUNDWATER TRUST

Statements of Financial Position

As of June 30, 2019 and 2018

SEE INDEPENDENT ACCOUNTANT'S REVIEW REPORT

	<u>2019</u>	<u>2018</u>
ASSETS		
CURRENT ASSETS:		
Cash and Cash Equivalents	\$ 225,571	\$ 224,219
Interest Receivable	2,206	2,747
Investments - Maturing in Less Than a Year	147,228	40,352
TOTAL CURRENT ASSETS	<u>375,005</u>	<u>267,318</u>
LONG TERM ASSETS:		
Investments - Maturing in More Than a Year	<u>454,541</u>	<u>507,724</u>
PROPERTY AND EQUIPMENT:		
Equipment	47,873	43,928
Less - Accumulated Depreciation	(23,475)	(14,689)
NET PROPERTY AND EQUIPEMENT	<u>24,398</u>	<u>29,239</u>
TOTAL ASSETS	<u>\$ 853,944</u>	<u>\$ 804,281</u>
LIABILITIES AND NET ASSETS		
CURRENT LIABILITIES:		
Accrued Expenses	\$ 3,862	\$ 4,221
NET ASSETS:		
Without Donor Restrictions	<u>850,082</u>	<u>800,060</u>
TOTAL LIABILITIES AND NET ASSETS	<u>\$ 853,944</u>	<u>\$ 804,281</u>

The accompanying notes are an integral part of the financial statements.

BOSTON GROUNDWATER TRUST

Statements of Activities

For the Years Ended June 30, 2019 and 2018

SEE INDEPENDENT ACCOUNTANT'S REVIEW REPORT

	<u>2019</u>	<u>2018</u>
REVENUE:		
Grants and Contracts	\$ 194,373	\$ 194,373
Interest Income	16,185	13,168
TOTAL REVENUE	<u>210,558</u>	<u>207,541</u>
EXPENSES:		
PROGRAM EXPENSES:		
Well Installation	21,713	-
Technical Research Project	-	27,850
Payroll	50,612	54,575
Payroll Taxes	3,963	4,165
Employee Benefits	6,123	6,258
Rent and Utilities	10,786	10,453
Groundwater Monitoring	7,090	9,174
Depreciation	8,486	8,486
TOTAL PROGRAM EXPENSES	<u>108,773</u>	<u>120,961</u>
MANAGEMENT AND GENERAL EXPENSES:		
Payroll	44,872	46,080
Payroll Taxes	3,547	3,497
Employee Benefits	6,124	6,258
Rent and Utilities	3,595	3,484
Professional Services	6,000	6,000
Office Expense	5,497	7,601
Depreciation	301	150
TOTAL MANAGEMENT AND GENERAL EXPENSES	<u>69,936</u>	<u>73,070</u>
TOTAL EXPENSES	<u>178,709</u>	<u>194,031</u>
INCREASE IN NET ASSETS WITHOUT DONOR RESTRICTIONS BEFORE OTHER INCOME	31,849	13,510
OTHER INCOME (LOSS)		
Loss on Sale of Investments	<u>-</u>	<u>(210)</u>
INCREASE IN NET ASSETS WITHOUT DONOR RESTRICTIONS BEFORE CHANGE IN UNREALIZED GAIN (LOSS) ON INVESTMENTS	31,849	13,300
CHANGE IN UNREALIZED GAIN (LOSS) ON INVESTMENTS	<u>18,173</u>	<u>(12,600)</u>
INCREASE IN NET ASSETS WITHOUT DONOR RESTRICTIONS	50,022	700
NET ASSETS, BEGINNING OF YEAR	<u>800,060</u>	<u>799,360</u>
NET ASSETS, END OF YEAR	<u>\$ 850,082</u>	<u>\$ 800,060</u>

The accompanying notes are an integral part of the financial statements.

BOSTON GROUNDWATER TRUST

Statements of Cash Flows
For the Years Ended June 30, 2019 and 2018
SEE INDEPENDENT ACCOUNTANT'S REVIEW REPORT

	<u>2019</u>	<u>2018</u>
CASH FLOWS FROM OPERATING ACTIVITIES:		
Increase in Net Assets	\$ 50,022	\$ 700
Adjustments to Reconcile Increase in Net Assets To Net Cash Provided by (Used in) Operating Activities:		
Depreciation Expense	8,786	8,636
Unrealized (Gains) Losses	(18,173)	12,600
Loss on Sale of Investments	-	210
Bond Premium Amortization	3,853	6,288
(Increase) Decrease in:		
Interest Receivable	541	694
Increase (Decrease) in:		
Accrued Expenses	(359)	(25,522)
Total Adjustments	<u>(5,352)</u>	<u>2,906</u>
NET CASH PROVIDED BY OPERATING ACTIVITIES	<u>44,670</u>	<u>3,606</u>
CASH FLOWS FROM INVESTING ACTIVITIES:		
Purchase of Investments	(79,373)	(123,821)
Proceeds from Sale of Investment	-	37,597
Maturity of Certificates of Deposit and Bonds	40,000	124,000
Purchase of Property and Equipment	(3,945)	(1,497)
NET CASH PROVIDED BY (USED IN) INVESTING ACTIVITIES	<u>(43,318)</u>	<u>36,279</u>
NET INCREASE IN CASH AND CASH EQUIVALENTS	1,352	39,885
Cash and Cash Equivalents at Beginning of Year	<u>224,219</u>	<u>184,334</u>
Cash and Cash Equivalents at End of Year	<u>\$ 225,571</u>	<u>\$ 224,219</u>

The accompanying notes are an integral part of the financial statements.

BOSTON GROUNDWATER TRUST

Notes to Financial Statements

June 30, 2019 and 2018

SEE INDEPENDENT ACCOUNTANT'S REVIEW REPORT

NOTE 1 - ORGANIZATION:

The Boston Groundwater Trust (the "Trust") was established as a trust in Massachusetts on July 18, 1986 under the custodianship of the City of Boston. The Trust's mission is to serve the public interest by re-establishing and maintaining a system for monitoring groundwater levels in parts of the City of Boston. It achieves this by engaging engineers, contractors and other professionals to reactivate existing wells and install new observation wells in addition to collecting, managing, publishing and analyzing data derived from old and new observation wells.

NOTE 2 - SIGNIFICANT ACCOUNTING POLICIES:

Basis of Accounting

The financial statements of the Trust are prepared on the accrual basis of accounting, under which revenues are recognized when earned and expenses are recognized when incurred. This is different from the cash basis of accounting, under which revenues are recognized when cash is received and expenses are recognized when cash is disbursed.

Basis of Presentation

Contributions, net assets, and changes therein are classified and reported as without donor restrictions and with donor restrictions, based on the existence or absence of donor-imposed restrictions. Contributions that are restricted by the donor are reported as increases in unrestricted net assets if the restrictions expire in the fiscal year in which the contributions are recognized. All other donor-restricted contributions are reported as increases in net assets with donor restrictions. When a restriction expires, net assets with donor restrictions are reclassified to net assets without donor restrictions.

Cash and Cash Equivalents

Cash and cash equivalents are held in banks and money market mutual funds, and consist of highly liquid investments with a maturity when purchased of three months or less.

On March 26, 2009, the Trustees voted to create an unrestricted reserve fund for the following uses: groundwater research; network upgrading; and a contingency for technical assistance.

BOSTON GROUNDWATER TRUST

Notes to Financial Statements

June 30, 2019 and 2018

SEE INDEPENDENT ACCOUNTANT'S REVIEW REPORT

NOTE 2 - SIGNIFICANT ACCOUNTING POLICIES - Continued:

Investments

The Trust adopted SFAS No. 124, "Accounting for Certain Investments Held by Not-for-Profit Organizations." Under SFAS No. 124, investments in marketable securities with readily determinable fair values and all investments in debt securities are valued at their fair values in the statement of financial position. Unrealized gains and losses are included in the change of net assets.

Investments consist of bonds and certificates of deposit and are reflected at fair market value. Generally, management relies on its custodian for securities valuations. Bond premiums and discounts are amortized over the maturity life of the bond.

Investment Income

Investment income and gains and losses on investments are reported as increases or decreases in net assets without donor restrictions unless a donor or law restricts their use. Investment income and gains restricted by a donor are reported as increases in net assets without donor restrictions if the restrictions are met (either by passage of time or by use) in the reporting period in which the income and gains are recognized.

Accrued Expenses

Accrued expenses include current period labor expenses paid after the balance sheet date.

Grants, Contracts and Deferred Revenue

The Boston Groundwater Trust receives substantially all grants and contract revenue from the City of Boston and its independent agencies, the U.S. government, and the Commonwealth of Massachusetts. The Trust records grant/contract revenue as deferred revenue until it is expended for the purpose of the grant/contract, at which time it is recognized as revenue.

Contributed Services and Facilities

The thirteen Trustees of the Boston Groundwater Trust contribute their services to assist in maintaining the various programs of the Trust.

BOSTON GROUNDWATER TRUST

Notes to Financial Statements

June 30, 2019 and 2018

SEE INDEPENDENT ACCOUNTANT'S REVIEW REPORT

NOTE 2 - SIGNIFICANT ACCOUNTING POLICIES - Continued:

Property and Equipment

Property and equipment is valued at cost and is being depreciated over 5 and 10 years on the straight line method. Maintenance and repairs are charged to expense when incurred. Upon retirement or disposition, the cost and related accumulated depreciation are removed from the accounts and any resulting gain or loss is reflected in operations.

Income Taxes

The Trust is a not-for-profit organization that is exempt from income taxes under section 501(c)3 of the Internal Revenue Code. The Trust's tax returns generally remain subject to examination for three years after filing.

Functional Expenses

The Trust reports its expenses by their functional expense classification. Expenses related to monitoring of groundwater levels in the City of Boston are classified as program expenses. All other expenses are classified as management and general expenses. Some expenses are allocated between program and management and general. Payroll, payroll taxes and employee benefits are allocated between program and management and general based on time spent on program work versus administrative work. Rent and utilities are allocated based on square footage of space used for program activities versus administrative work. Depreciation expense related to program equipment is classified as a program expense; depreciation expense related to office equipment is classified as a management and general expense.

Use of Estimates

Management uses estimates and assumptions in preparing financial statements. Those estimates and assumptions affect the reported amounts of assets and liabilities, the disclosure of contingent liabilities, and the reported revenues, gains, support, expenses and losses. Actual results could differ from those estimates.

Compensated Absences

Employees of the Trust are entitled to paid vacations, sick days, and other time off depending on job classification, length of service, and other factors. Unused paid time off does not carry over from year to year; therefore, no liability has been recorded in the accompanying financial statements. The Trust's policy is to recognize the cost of compensated absences when paid to employees.

BOSTON GROUNDWATER TRUST

Notes to Financial Statements

June 30, 2019 and 2018

SEE INDEPENDENT ACCOUNTANT'S REVIEW REPORT

NOTE 2 - SIGNIFICANT ACCOUNTING POLICIES - Continued:

Subsequent Events

Subsequent events are events or transactions that occur after the balance sheet date but that could affect the amounts or disclosures in the financial statements. Management has evaluated subsequent events through the date that the financial statements are available to be issued, which is the date noted at the bottom of the auditor's report.

Change in Accounting Principle

In the year ended June 30, 2019, the Trust adopted ASU 2016-14, *Not-for-Profit Entities (Topic 958) - Presentation of Financial Statements of Not-for-Profit Entities*. The new standards change the following aspects of the Trust's financial statements:

- There are two classes of net assets according to the existence or absence of restrictions placed by donors: net assets with donor restrictions and net assets without donor restrictions.
- Expenses are presented on the statement of activities according to their functional and natural classification.
- The financial statements include a new disclosure about liquidity and availability of resources (Note 9).

Reclassifications

Certain prior year expenses have been reclassified on the statement of activities to conform to the current year presentation in accordance with ASU 2016-14.

NOTE 3 - INVESTMENTS:

For the years ended June 30, 2019 and 2018, management has classified all of the securities held by the Trust as held-to-maturity. In 2019 and 2018 the Trust had unrealized gains or (losses) of \$18,173 and \$(12,600), respectively.

The marketable securities portfolio is comprised of the following:

	<u>June 30,</u>			
	<u>2019</u>		<u>2018</u>	
	<u>Cost</u>	<u>Value</u>	<u>Cost</u>	<u>Value</u>
Bonds	\$ 535,086	\$ 541,673	\$ 499,565	\$ 488,723
CDs	60,000	60,096	60,000	59,353
	<u>\$ 595,086</u>	<u>\$ 601,769</u>	<u>\$ 559,565</u>	<u>\$ 548,076</u>

BOSTON GROUNDWATER TRUST

Notes to Financial Statements

June 30, 2019 and 2018

SEE INDEPENDENT ACCOUNTANT'S REVIEW REPORT

NOTE 3 - INVESTMENTS - Continued:

The maturities of the investments in bonds and CDs for each of the next five years and thereafter are as follows:

<u>Year Ending June 30,</u>	<u>Bonds</u>	<u>CDs</u>	<u>Total</u>
2020	\$ 107,213	\$ 40,015	\$ 147,228
2021	121,129	-	121,129
2022	20,371	20,081	40,452
2023	147,121	-	147,121
2024	21,435	-	21,435
Thereafter	124,404	-	124,404
Total	<u>\$ 541,673</u>	<u>\$ 60,096</u>	<u>\$ 601,769</u>

NOTE 4 - FAIR VALUE MEASUREMENTS:

The Trust uses a three-level hierarchy for disclosure of fair value measurements. The valuation hierarchy is based upon the reliability of inputs to the valuation of the Trust's investments. The three levels are defined as follows:

- Level 1 - Valuations based on quoted prices for identical securities in active markets
- Level 2 - Prices determined using other significant observable inputs
- Level 3 - Valuations based on inputs that are unobservable and significant

The following is a summary of the inputs used as of June 30, 2019 in valuing the Trust's investments:

<u>Asset Valuation Inputs</u>	<u>Trading Securities</u>
Level 1 - Quoted Prices	\$ 601,769
Level 2 - Other Significant Observable Inputs	-
Level 3 - Significant Unobservable Inputs	-

The following is a summary of the inputs used as of June 30, 2018 in valuing the Trust's investments:

<u>Asset Valuation Inputs</u>	<u>Trading Securities</u>
Level 1 - Quoted Prices	\$ 548,076
Level 2 - Other Significant Observable Inputs	-
Level 3 - Significant Unobservable Inputs	-

The Trust relies on its custodian for valuations of its trading securities.

BOSTON GROUNDWATER TRUST

Notes to Financial Statements

June 30, 2019 and 2018

SEE INDEPENDENT ACCOUNTANT'S REVIEW REPORT

NOTE 5 - SUMMARY OF GRANTS/CONTRACTS FUNDING:

The Boston Groundwater Trust was primarily funded through the following grants and contracts for the year ended June 30, 2019:

Funding Source	Grant Period	Contract	Total Grant/ Contract	Recognized Support
<hr/>				
City of Boston:				
The Environmental Department	6/30/18-6/30/19		\$169,373	\$169,373
City of Boston Independent Agencies:				
Boston Water and Sewer Commission			25,000	25,000
<hr/>				
Total Grants and Contracts			<u>\$194,373</u>	<u>\$194,373</u>

The Boston Groundwater Trust was primarily funded through the following grants and contracts for the year ended June 30, 2018:

Funding Source	Grant Period	Contract	Total Grant/ Contract	Recognized Support
<hr/>				
City of Boston:				
The Environmental Department	6/30/17-6/30/18		\$169,373	\$169,373
City of Boston Independent Agencies:				
Boston Water and Sewer Commission			25,000	25,000
<hr/>				
Total Grants and Contracts			<u>\$194,373</u>	<u>\$194,373</u>

NOTE 6 - CONCENTRATION OF CREDIT RISK:

The Boston Groundwater Trust receives substantially all grants and contract revenue from The City of Boston and its independent agencies, the U.S. government, and the Commonwealth of Massachusetts.

BOSTON GROUNDWATER TRUST

Notes to Financial Statements
June 30, 2019 and 2018

SEE INDEPENDENT ACCOUNTANT'S REVIEW REPORT

NOTE 7 - RETIREMENT PLAN:

The Trust has a discretionary retirement plan under Section 408(k) of the Internal Revenue Code. Under the plan and at its discretion, the Trust has contributed 5% of gross earnings to eligible employees who are at least twenty-one years old and have completed at least 3 years of service in the preceding five years. Employees are 100% vested upon participation. The Trust's contributions to the plan were \$4,325 and \$4,150 for the years ended June 30, 2019 and 2018, respectively.

NOTE 8 - LEASES:

The Trust sub-leases its facilities from the Back Bay Association. The operating lease was effective June 1, 2010, and is automatically renewable if not canceled. The lease is cancelable at any time by either party on one month's notice with no penalty.

Rent expense paid by the Trust was \$14,381 and \$13,937 for the years ended June 30, 2019 and 2018, respectively.

Note 9 - LIQUIDITY:

The Trust regularly monitors liquidity required to meet its operating needs, while also striving to maximize the investment of its available funds.

The following reflects the Trust's financial assets as of the statement of financial position date:

Cash and Cash Equivalents	\$	225,571
Interest Receivable		2,206
Investments		601,769
Financial Assets Available to Meet General Expenditures within One Year	\$	<u>829,546</u>