

COMPREHENSIVE ANNUAL FINANCIAL REPORT

for the years ended June 30, 2017 and 2016



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East Bay Municipal Utility District

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Letter of Transmittal

GFOA Award Certificate

Board of Directors

Organizational Staffing

Organization Chart

December 29, 2017
East Bay Municipal Utility District
Oakland, California

We are pleased to submit the Comprehensive Annual Financial Report (CAFR) of the East Bay Municipal Utility District (EBMUD) for the fiscal year ended June 30, 2017.

The Comprehensive Annual Financial Report has been prepared by the Finance Department in compliance with the principles and standards for financial reporting set forth by the Governmental Accounting Standards Board. Management assumes full responsibility for the completeness and reliability of the information contained in this report, based upon a comprehensive internal control framework it established for this purpose. Because the cost of internal control should not surpass its benefits, the objective is to provide reasonable rather than absolute assurance that the financial statements are free of material misstatements.

Maze & Associates, Accountancy Corporation, have issued an unqualified (“clean”) opinion on the East Bay Municipal Utility District’s financial statements for the year ended June 30, 2017. The purpose of the independent audit was to provide reasonable assurance that these financial statements for the year ended June 30, 2017, are free of material misstatements. The independent auditor’s report is located at the front of the financial section of this report.

Management’s discussion and analysis immediately follows the independent auditor’s report and provides an introduction, overview and analysis of the basic financial statements. This transmittal letter is designed to complement and be read in conjunction with the management’s discussion and analysis.

The Comprehensive Annual Financial Report follows the guidelines recommended by the Government Finance Officers Association (GFOA) of the United States and Canada. EBMUD is submitting this Comprehensive Annual Financial Report to GFOA for review and certification.

The East Bay Municipal Utility District is a publicly owned utility formed in 1923 under the State of California's Municipal Utility District Act of 1921 (MUD Act) to provide quality water services to parts of Alameda and Contra Costa counties. EBMUD captures snowmelt from 575 square miles of mostly undeveloped watershed lands of the Mokelumne River, and collects it at Pardee Reservoir 90 miles east of the Bay Area. EBMUD has water rights for up to 325 million gallons daily from the Mokelumne River watershed to serve Bay Area customers. EBMUD's Camanche Reservoir, downstream of Pardee, stores water to meet the needs of fisheries, riparian habitat and downstream water rights holders.

The MUD Act was amended in 1941 to enable formation of special districts. In 1944, voters in six East Bay cities elected to form EBMUD's Special District No. 1 to treat wastewater released into the Bay. Wastewater treatment for those cities began in 1951 and was expanded 20 years later to include Kensington, El Cerrito and part of Richmond.

The District's Water System collects, transmits, treats, and distributes high quality water to approximately 60 percent of the developed area within Alameda and Contra Costa counties in California. The system serves approximately 1.4 million people in a 332-square-mile area extending from Crockett on the north, southward to San Lorenzo (including Richmond, Emeryville, Oakland, Berkeley, Alameda, San Leandro and Castro Valley), eastward from San Francisco Bay to Walnut Creek (including Orinda, Moraga and Lafayette), and south through the San Ramon Valley (including Alamo, Danville and San Ramon). The EBMUD Wastewater System protects public health and the San Francisco Bay with wastewater treatment and innovative pollution prevention programs. The system intercepts and treats wastewater from residences and industries along the Bay's east shore, from Richmond in the north to San Leandro in the south, including Alameda, Albany, Berkeley, El Cerrito, Emeryville, Kensington, Oakland, Piedmont and part of Richmond, serving approximately 680,000 customers in an 88-square-mile area of Alameda and Contra Costa counties.

A seven-member Board of Directors, elected by wards for four-year terms, determines overall policies, which are then implemented under the direction of the General Manager.

BOARD DIRECTORS

Ward 1 – Lesa R. McIntosh (President)

Ward 2 – John A. Coleman

Ward 3 – Marguerite Young

Ward 4 – Andy Katz

Ward 5 – Doug Linney

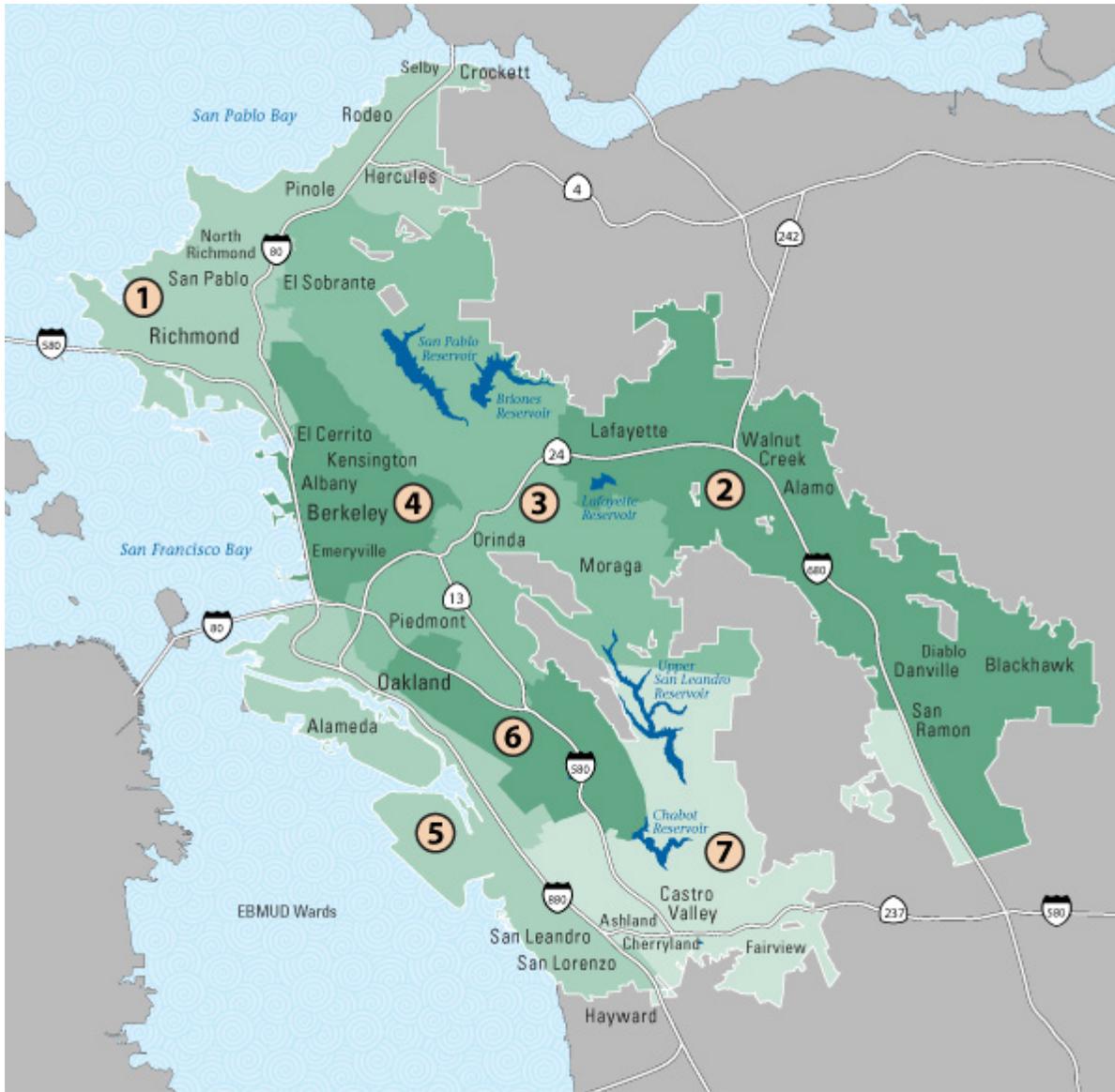
Ward 6 – William B. Patterson (Vice President)

Ward 7 – Frank Mellon

Board meetings are open to the public and held the second and fourth Tuesdays of each month. In addition, workshop sessions, special meetings, and public hearings are occasionally scheduled and noticed. Each Board member serves on one or more standing Board committees. The committees review and make recommendations on matters of major interest before discussion by the full Board at a regular meeting. Standing committees of the Board are Planning, Retirement, Sustainability/Energy, Legislative/Human Resources and Finance/Administration. Board members also represent EBMUD at the Association of California Water Agencies, the Bay Area Water Forum, the Freeport Regional Water Authority, the Upper Mokelumne River Watershed Authority, the Dublin San Ramon Services District/EBMUD Recycled Water Authority (DERWA), EBMUD/East Bay Regional Park District, Bay Area Clean Water Agencies (BACWA), and the Special Districts Associations in Alameda and Contra Costa counties.

EBMUD had approximately 1,832 active full-time employees in fiscal year 2017 under the administrative direction of appointed General Manager Alexander R. Coate and management staff. Employees are represented by the American Federation of State, County and Municipal Employees, Locals 444 and 2019, International Federation of Professional, Technical Engineers Local 21 and International Union of Operating Engineers Local 39. EBMUD is an equal opportunity employer and encourages diversity in contracting and in the workforces of District contractors.

EBMUD has continually pursued an array of solutions to provide a reliable water supply to its service area and protect the San Francisco Bay now and into the future. EBMUD continues to focus on water supply planning and drought protection, water quality, water conservation, infrastructure maintenance and improvements, watershed protection, wastewater treatment, customer service and fiscal integrity and stability.



EBMUD's service area encompasses cities in northern Alameda County and western and central Contra Costa County.

The seven cities EBMUD serves within Alameda County are Alameda, Albany, Berkeley, Emeryville, Oakland, Piedmont and San Leandro. These cities along the eastern shore of the San Francisco Bay feature pleasant climate and a rich diverse culture. They are host to the nation's strongest research, development and innovation clusters. In addition to excelling in many diversified technical disciplines, the area features leading research institutions and higher education institutions. These include the Lawrence Berkeley National Laboratory and University of California Berkeley, as well as, a high concentration of private technology development companies and clean tech innovation centers. The Port of Oakland is also vital to national economic competitiveness, strengthening the national balance of trade, and handling 99 percent of containerized cargo in Northern California. The government sector provides the largest share of total payroll employment by industry in the East Bay, followed by the health care, retail trade and leisure and hospitality, professional scientific and technical services, manufacturing, and construction. In addition to the employers mentioned above, other major employers include Kaiser Permanente, Alameda County, City of Oakland, Bay Area Rapid Transit (BART), State of California, Oakland Unified School District, Alta Bates Summit Medical Center, Pandora, East Bay Regional Park District, Clorox, Bayer Healthcare, Cost Plus, Dryer's/Edy's Grand Ice Cream, Peet's Coffee and Tea, PowerBar, Clif Bar, IKEA, Novartis, Acme Bread Company, and Pixar.

The West Contra Costa County region includes El Cerrito, Hercules, Pinole, Richmond and San Pablo. This region historically has been one of the Bay Area's significant manufacturing regions. In addition, this region provides favorable weather, excellent Bay and bridge views, as well as marinas that offer excellent residential values for those seeking to escape higher prices elsewhere in the San Francisco Bay Area. The Craneway Pavillion, a repurposed Ford Factory located on San Francisco Bay, houses a number of emerging technology companies and also includes an attractive event space. The adjacent Rosie the Riveter World War II Home Front National Historical Park documents some of the past industrial history of the area. Nearby, the San Pablo Bay is a favored saltwater fishing destination and a popular wintering stop and migratory staging ground for numerous species of waterfowl. Chevron is the largest employer in the West Contra Costa region and this sub-region, with its cluster of refineries, is a national leader in the petrochemical industry. In addition to Chevron, other major employers include Bio-Rad Laboratories, West Contra Costa Unified School District, and Sangamo Biosciences.

The Central Contra Costa County region, commonly known as “Central County” includes Clayton, Concord, Lafayette, Martinez, Moraga, Orinda, Pleasant Hill and Walnut Creek. Central County offers a variety of living environments ranging from rural to urban. The area also boasts some of Northern California’s most desirable residential communities along with some of the top public schools in the state. Walnut Creek and Pleasant Hill offer excellent examples of contemporary downtown centers and have become local retail destinations. The Leshner Center for the Arts is an arts destination with over 900 productions and events a year. Higher education institutions such as the Diablo Valley College and John F. Kennedy University and health care providers such as John Muir/Mt. Diablo Regional Medical Centers in Walnut Creek and Concord, Kaiser Hospital and clinics in Walnut Creek and Martinez, along with the Contra Costa Regional Medical Center and Veterans Administration Hospital in Martinez provide over 30,000 jobs in this region. Other significant industries in the area include trade, transportation and utilities, and professional and business services. Concord is home to an emerging biomedical industry cluster and Walnut Creek is the center of a large financial services group. Significant employers include: Diablo Valley College, Kaiser Foundation Hospitals, AT&T Services, Cellco Partnership, John Muir Health, California State Automobile Association, Frances Mary Accessories Inc., Bay Area News Group and Shell Martinez Refining Co.

According to the East Bay Economic Outlook 2017, the strong growth in 2016 is expected to continue throughout 2017 and 2018. The region continues to transform into a higher-skilled labor market quicker than the rest of the state with more tech companies bringing jobs to the area. In February, 2017, the unemployment rate of 4.0% was 1% lowered compared to the state overall. As more East Bay residents find jobs, more residents are expected to return to the labor force amid rising wages resulting in the projected unemployment rate largely unchanged at 4.0%. Some of the fastest growing sectors over the past years having been Construction, Health Care, and Leisure & Hospitality. However, high-skilled sectors such as Information, Professional Scientific, and Technical Services also posted significant growth over the year. As local incomes rise, the East Bay economy also benefits from incrementally higher spending. In the East Bay, taxable sales growth outpaced the South Bay and San Francisco. Travel and tourism activity has been strong over the last year as passenger traffic at the Oakland International Airport increased faster than at the San Francisco and San Jose International Airports. BART ridership to and from the airport has increased due to the new airport BART station. Local residential and commercial real estate markets continue to benefit from the East Bay’s relative affordability advantage over the South Bay and San Francisco, attracting new residents and businesses to the region. However, low residential property inventory will keep an upward pressure on prices and restricted sales. Beacon Economics predicts that

price appreciation will increase through the third quarter of 2017, with year-over-year growth peaking at 11.9% as the housing market strains under persistently low inventories.



Consistent with Government Finance Officers Association (GFOA) recommendations EBMUD has developed a strategic plan that is a blueprint for how the District will respond to future challenges and changing priorities. Based on EBMUD's mission and values, goals are established, monitored and reviewed regularly with the Board of Directors.

MISSION

To manage the natural resources with which the District is entrusted; to provide reliable, high-quality water and wastewater services at fair and reasonable rates for the people of the East Bay; and to preserve and protect the environment for future generations.

PRINCIPLES

- Exercise responsible financial management
- Ensure fair and reasonable rates and charges
- Provide responsive quality customer service
- Promote ethical behavior in the conduct of District business
- Ensure fair and open processes involving the public
- Provide a healthy work environment
- Promote diversity and equality in personnel matters and contracting
- Promote environmental, economic, and social sustainability

Sustainability

Sustainability means using resources (environmental, economic, and social) in a responsible manner that meets the needs of today without compromising the ability of future generations to meet the needs of tomorrow. This business approach applies a holistic view and strives to minimize waste, conserve energy and natural resources, promote long-term economic viability, and support safety and well-being for employees, communities, and customers in ways that benefit society.

GOALS

- Long-term water supply:
Ensure a reliable high quality water supply for the future
- Water quality and environmental protection:
Meet or surpass environmental and public health standards and protect public trust values
- Long-term infrastructure Investment:
Maintain and improve the District's infrastructure in a cost-effective manner to ensure sustainable delivery of reliable, high quality service now and in the future, addressing economic, environmental, and social concerns.
- Long-term financial stability:
Manage the District's finances to meet funding needs and maintain fair and reasonable water and wastewater rates
- Customer and community services:
Maintain and enhance service excellence through continuous improvement
- Workforce planning and development:
Create an environment that attracts, retains and engages a high performing diverse workforce in support of the District's mission and core values



INTRODUCTION

The District has a comprehensive set of financial policies that set forth comprehensive guidelines to maintain accountability and control over operating revenue and expenditures, ensure proper appropriation of reserves and restricted funds, and maintain a reasonable balance between debt and assets in providing funding for capital projects.

FINANCIAL POLICIES

Investments

Annually, the Board adopts an investment policy that is in compliance with the California Government Code, Sections 53600 et seq. The investment of idle funds is delegated by the Board to the District's Director of Finance as the Treasurer who assumes full responsibility for the transactions of the investment program. The objectives of the investment policy are safety, liquidity, yield and diversity. The District's investments are in compliance with the adopted investment policy. See Note 2 in the Notes to the Financial Statements for detailed investment information.

Rate Stabilization

The District's Rate Stabilization Funds for the Water and Wastewater Systems were established in 1986 to enable the deposit of funds upon determination that there are revenues remaining for such deposits after the District has satisfied the debt service and other requirements set forth in the District's bond documents including the payment of operation and maintenance costs. The funds may be utilized in future years to mitigate lower than expected debt coverage in a given fiscal year.

The District maintains a Contingency and Rate Stabilization Reserve in accordance with District's Fiscal Policy 4.02. The purpose of this fund is to provide an adequate reserve to mitigate overall rate volatility resulting from climatic or economic changes that significantly decrease the District's revenues or increase the District's operating costs. These General Fund Reserves are unrestricted.

In fiscal year 2014, the District combined the Rate Stabilization Fund and the Contingency and Rate Stabilization Reserve into a Single Rate Stabilization Fund Reserve.

Internal Controls

EBMUD management is responsible for establishing and maintaining adequate internal controls to assure that District operations are effective and efficient, that applicable laws and regulations are followed, and financial reports are reliable. Internal controls provide reasonable, but not absolute, assurance that these objectives are met. The concept of reasonable assurance recognizes that the cost of a control should not exceed the benefits likely to be derived, and that cost-benefit analyses require estimates and judgments by management.

FINANCIAL HIGHLIGHTS***Financial Position***

The District's overall financial condition continues to be sound as demonstrated by a stable revenue base, effective cost containment, increase in net position and adequate fund reserves.

In fiscal year 2017, EBMUD continued to effectively manage its finances and strengthen its financial position by adopting sufficient water and wastewater rates to fund capital infrastructure improvements and to maintain strong financial performance. The following results of operations indicate a continuing strong and stable fiscal position:

- Net position increased by \$136 million or 10% during the fiscal year.
- Capital assets increased by \$162 million or 4% to \$4.7 billion.
- Operating revenue increased by \$9 million or 2% to \$534 million.
- Operating expense decreased by \$13 million or 3% to \$428 million.
- Non-operating net expense decreased by \$3 million or 4% to (\$54) million.
- Capital contributions increased by \$20 million or 30% from the prior fiscal year.

Debt Administration

As of the end of fiscal year 2017, the Water System had total long-term term revenue bonds, commercial paper notes and state loans (net of unamortized costs) outstanding of \$2.8 billion. The Wastewater System had total long-term revenue bonds and extendable commercial paper notes (net of unamortized costs) outstanding of \$408 million as well as \$3.5 million of General Obligation bonds.

Prudent financial management policies have resulted in long-term bond ratings of AAA (Water and Wastewater) from Standard & Poor's, Aa1 for Water and Aa2 for Wastewater from Moody's Investors' Service and AA+ for Water and Wastewater from Fitch Rating.

In fiscal year 2017, the District issued \$495.0 million of Water revenue bonds and \$69.4 million of Wastewater revenue bonds.

The Water Series 2017A bonds were issued in the amount of \$185.4 and provided new money for reimbursement of project financing, and were sold as Green Bonds. The Water Series 2017B bonds were issued in the amount of \$309.7 million, and provided new money for reimbursement of project financing as well as refunded all or portions of the outstanding Water Series 2007B, Series 2010A, and Series 2012A. Although \$495.0 million of bonds were issued, the District received \$600.2 million in proceeds due to \$105.2 million in premium. The premium, along with the average coupon rate of 4.88% and an average life of 17.7 years, resulted in an All-In True Interest Cost of 3.28%.

The Wastewater Series 2017A bonds were issued in the amount of \$69.4 million and provided new money for reimbursement of project financing as well as refunded all or portions of the outstanding Wastewater Series 2007B and Series 2010A. Although \$69.4 million of bonds were issued, the District received \$82.7 million in proceeds due to \$13.2 million in premium. The premium, along with the average coupon rate of 4.53% and an average life of 10.1 years, resulted in an All-In True Interest Cost of 2.43%.

Budget and Rates

The Board of Directors affirmed that the second year of the biennial budget for fiscal year 2016/2017 supports EBMUD's mission, values and strategic plan. The adopted total biennial budget for fiscal years 2016 and 2017 is \$1.83 billion, \$1.40 billion for Water System, \$0.30 billion for Wastewater System, and \$0.13 billion for drought contingency. Water System rate increased by 8.0 percent for fiscal year 2016 and 7.0 percent for fiscal year 2017, and Wastewater System rate increased by 5.0 percent for fiscal year 2016 and 5.0 percent for fiscal year 2017.

The budget addressed three key strategic plan priorities: investing in aging physical infrastructure, investing in critical information technology infrastructure, and managing the impacts of the extended drought. In addition, to provide for long-term financial stability, the budget was based on prudent assumptions for water sales and customer conservation, and met the Board's adopted financial policies and the District's credit ratings. It supported the District's mission, values and strategic plan, and the Board's commitment that the East Bay's world class quality of life must be supported by a world class water and wastewater utility.

For the first time, the District's budget included a drought contingency for purchasing, treating and delivering supplemental water supplies and additional customer outreach.

The total Water System budget was \$667 million in fiscal year 2016, and \$733 million in fiscal year 2017. The Capital Improvement Program (CIP) continues its focus on investments in infrastructure rehabilitation, repair and replacement. Over the next five years, major capital work includes anticipated spending of \$429 million on the pipelines, regulators and appurtenances program which includes expanding the rate of pipeline replacements; \$153 million on raw water aqueduct improvements; \$135 million on pressure zone improvements; and \$100 million on reservoir rehabilitation.

The total Wastewater System budget was \$170 million in fiscal year 2016, and \$137 million in fiscal year 2017. Over the next five years, major capital work includes anticipated spending of \$44 million to rehabilitate sewer interceptors; \$34 million to rehabilitate and improve the infrastructure at the wastewater treatment plant; \$19 million to address odor conditions; and \$14 million to expand the Resource Recovery program.

INTRODUCTION

In fiscal year 2017, EBMUD continued to make progress in securing long-term water supply, protecting water quality and the environment, and improving the District's infrastructure – all efforts towards reaching strategic goals that best serve East Bay communities. EBMUD implemented an overall plan to meet these goals with its Water Supply Management Program 2040 which helps EBMUD meet water needs for the next 30 years. Rate increases and cost-cutting programs continued to stabilize and improve EBMUD's financial position. Through cooperative efforts with stakeholders in fiscal year 2017, EBMUD continued to maneuver through many challenges with strength and stability.

LONG-TERM WATER SUPPLY

Securing water supplies

In California, where new water projects take years to develop, long-term planning ensures reliable water supplies for the future. EBMUD continues to implement its Water Supply Management Program 2040 which guides EBMUD to ensure water needs for its customers are met over the long term. The plan calls for maintaining a reliable, high quality water supply by aggressively conserving water, recycling wastewater and tapping into a variety of regional water supply sources. The plan stresses the District's objectives to preserve and protect the environment, adjust to new regulations and water system changes, seek cost-effective collaborative solutions and prepare for uncertainties including climate change and the Sacramento-San Joaquin Delta challenges. The District's Water Conservation Master Plan, updated in 2011, is part of the Water Supply Management Plan 2040 and directs comprehensive strategies and initiatives to reduce customers' water use by 39 million gallons per day (MGD) by the year 2040.

Camanche Permit Extension

EBMUD's primary water rights on the Mokelumne include our permanent license for Pardee Reservoir and our Permit 10478, which authorizes EBMUD to operate Camanche Reservoir. In August 2016, EBMUD secured an extension to the Camanche Permit to the year 2040 by developing a comprehensive Environmental Impact Report to support the extension of the District's existing water right. The report verified that no substantive changes were proposed for diversion and storage of water. The extension was granted following over 16 years of committed analysis and collaboration with resource agencies,

stakeholders and fellow Mokelumne River water rights holders and resulted in new agreements to embark on future groundwater banking projects. Through the extension, EBMUD has ensured that the East Bay Area can continue to use this supply for decades to come.

Water Conservation

Thanks to strategic water supply planning, continued conservation by customers, strong rainfall, and investments in conservation, recycling and supplemental supplies, EBMUD water supply projections remain sufficient to meet demand. Throughout the drought and the recent above normal rainfall years, EBMUD continues to support outreach and engagement with consumers to ensure conservation remains a way of life in California.

The District's comprehensive water conservation and recycling programs ensure that EBMUD will meet requirements of the California Water Conservation Act of 2009, which mandates a 20 percent reduction in water used by Californians by the year 2020. Ongoing demand reduction by EBMUD customers has positioned the District well to meet its target water savings by 2020 and beyond.

To further support water conservation efforts, EBMUD is implementing an aggressive leak detection program to save valuable water, reduce repair costs and limit customer inconveniences resulting from pipe breaks. The District has investigated acoustic, satellite and pressure sensing technology innovations to detect underground leaks before they fully compromise aging pipes. The District has committed to install \$1.1 million in new leak detection monitoring in the coming years.

Water Recycling

EBMUD maintains a Recycled Water Master Plan to plan for and implement recycled water projects to provide a local, reliable and sustainable water supply to offsets the use of potable water and lessens the need for severe rationing during droughts. The District currently has the capability to provide an average of 9 million gallons per day (MGD) of recycled water to our customers, and the goal is to recycle 20 MGD by the year 2040. EBMUD is currently updating its Recycled Water Master Plan to refresh its non-potable reuse goals as well as consider how potable reuse might play a role in future water supply planning. EBMUD expects to complete the master plan update by the end of 2018. Recycled water is provided for industrial processes, landscape irrigation, commercial cooling and toilet flushing. EBMUD's current recycled

water projects include East Bayshore, San Ramon Valley, North Richmond, Richmond Advanced Recycled Expansion (RARE), and San Leandro.

The East Bayshore project provides recycled water for a variety of non-potable applications to portions of Emeryville and Oakland. The San Ramon Valley project provides recycled water for landscape irrigation to portions of San Ramon. The San Leandro project provides recycled water for irrigation to portions of Alameda. The North Richmond and RARE projects provide recycled water to the Chevron Richmond Refinery for its cooling towers and boiler feedwater system. Chevron under contract continues to pay a volumetric rate for water from the North Richmond Water Recycling Plant, and a monthly service charge to cover all capital, operations, and maintenance costs associated with the RARE facility. Over the years, EBMUD has secured federal, state, and customer specific funding to partly pay for these recycled water facilities. Recently, state funding was secured to install a segment of the East Bayshore pipeline from Oakland to Emeryville. EBMUD partnered with the City of Albany's bike path project to install another segment of the East Bayshore pipeline, resulting in cost savings.

Regional Water Supply Sources

California water systems were built to serve the populations and geographical areas that invested in them – and rarely were designed to work together. Since 2014, the Bay Area's largest water agencies have been working together to develop regional solutions under the Bay Area Regional Reliability project (BARR), to improve water supply reliability for the Bay Area's more than 6 million area residents and thousands of businesses and industries. The Contra Costa Water District, East Bay Municipal Utility District, Marin Municipal Water District, San Francisco Public Utilities Commission (with the Bay Area Water Supply and Conservation Agency), Santa Clara Valley Water District, Zone 7 Water Agency, and Alameda County Water District have joined forces to leverage existing facilities and, if needed, build new ones to bolster regional water supply reliability. In addition to enhancing reliability, this approach aims to bolster emergency preparedness, address climate resiliency, leverage existing infrastructure investments and facilitate water transfers during critical periods of drought or after natural disasters. In fall 2015, the BARR partner agencies received a \$200,000 grant from the U.S. Bureau of Reclamation to prepare a Drought Contingency Plan. This plan is the first phase of a multiphase effort and summarizes how the agencies respond to droughts, determines drought-related vulnerabilities, and identifies potential mitigation measures to help the region better weather future droughts. The agencies completed the Drought Contingency Plan published in 2017. The agencies also received notification from Reclamation that they had been selected

for a \$400,000 grant to fund one of the projects identified in the Drought Contingency Plan, the development of a Regional Water Market program to facilitate transfers and exchanges. In addition, EBMUD participated in a second BARR project - development of a draft environmental document and state grant application as a potential participant in the Los Vaqueros Reservoir Enlargement Project. EBMUD and other potential partners continue to evaluate possible benefits of the project and expect grant funding announcements by summer 2018.

In May 2013, the EBMUD Board adopted a groundwater management plan for the southern portion of the East Bay Plain Groundwater Sub-Basin. This plan provides a management structure to protect the sub-basin, which is used to store a drought supply for EBMUD's Bayside Groundwater Project. The Bayside Groundwater facility consists of a groundwater well to store excess water in wet periods for later recovery during droughts, when up to one million gallons per day of water can be pumped from the aquifer. The District began injection testing of the Bayside facility in Fiscal Year 2017. On November 29, 2016, EBMUD was designated by the State of California as the Groundwater Sustainability Agency for the portion of the East Bay Plain Basin that EBMUD overlies. EBMUD will spearhead the development of a Groundwater Sustainability Plan with other stakeholders to enhance basin protection measures.

EBMUD is also pursuing groundwater banking projects with partners outside its service area to help store water supplies for use during droughts. In September 2017, EBMUD executed an agreement with San Joaquin County and the North San Joaquin Water Conservation District to develop the Demonstration Recharge, Extraction, and Aquifer Management (DREAM) Project. Under this pilot, during wet years EBMUD will supply up to 1,000 acre-feet (AF) of Mokelumne River water to farmers who will use it for irrigation in place of pumped groundwater. In exchange, EBMUD can then take up to 500 AF of water during dry years to meet customer demand.

During normal rainfall years, EBMUD customers receive 90 percent of their water from the Mokelumne River watershed in the foothills of the Sierra Mountains, when the Mokelumne and local Easy Bay watersheds provide sufficient water for EBMUD's needs today and far into the future. However, California has a history of drought, and during droughts, conservation isn't enough to meet demand. To ensure additional water supply availability in dry years, EBMUD partnered with Sacramento County Water Agency to build the Freeport Regional Water Project. The Freeport facility allows both Sacramento County and EBMUD to access water supplies from the Sacramento River just south of Sacramento. The project was activated in Fiscal Year 2014 and 2015 to transfer purchased drought water supply from water transfers

and the District's Central Valley Project contract for East Bay customers.

In addition, EBMUD continued discussions with numerous agencies regarding future partnership opportunities related to long-term water transfers, groundwater banking, and regional desalination.

WATER QUALITY AND ENVIRONMENTAL PROTECTION

New Phase in Bay Protection

Over the years, San Francisco Bay protection agencies, other Bay Area wastewater agencies, environmental groups and EBMUD have all worked to keep the Bay as healthy as possible. EBMUD's main wastewater treatment plant operated continuously, 24 hours a day, for 15 years within permit limits and without a National Pollutant Discharge Elimination System violation. Over the past five years, EBMUD has worked intensively with local cities and wastewater agencies to establish programs and plans to accelerate maintenance and replacement of the sewer collection and treatment infrastructure that supports storm water management and protects San Francisco Bay.

Though the East Bay has separate systems for storm water runoff and sewage, storm water can seep into cracks in an aging sewer system, resulting in excess flow and partially treated sewage being released into San Francisco Bay. Under a settlement agreement with the U.S. Environmental Protection Agency (USEPA) and in collaboration with the California Regional Water Quality Control Board, EBMUD is working with six cities and one sewer district in our wastewater service area to ensure that property owners fix old, cracked sewer pipes that serve business or residences to protect the Bay. EBMUD has issued 22,956 compliance certificates since the PSL Program's inception in August 2011, which means over 280 miles of private sewer laterals have been certified as leak-free.

Nutrient discharge to the San Francisco Bay has generated a growing concern for regulators and stakeholders. Unlike many past water quality concerns such as mercury, dioxin, and PCBs, where wastewater only constitutes a de minimis amount, wastewater treatment plants are the significant source of nutrient inputs. If nutrient upgrades are required, capital costs could be billions of dollars for Bay Area wastewater agencies. EBMUD is developing a multi-faceted nutrient work plan that includes evaluation of cost-effective treatment plant upgrades including newer, more sustainable technologies, exploration of watershed-based approaches such as nutrient trading, and examination of projects with multiple benefits

(synergy with water recycling, nutrient recovery technologies from wastewater side stream, and support of wetland restoration efforts.) In addition, the District is finishing up an USEPA grant-funded regional study to investigate nutrient load reduction through treatment of wastewater side stream that typically accounts for more than 30% of nutrient load in the plant discharge.

Pollution Prevention

The District continues to grow its Pollution Prevention Program and expand partnerships with neighboring agencies, environmental groups, and other stakeholders to educate industries, commercial businesses and residents about their role in protecting the San Francisco Bay. Key efforts included addressing the fats, oils, and grease (FOG), mercury, copper, PCBs, green chemistry and pharmaceuticals. The many highlights for fiscal year 2017 include the continuation of the pharmaceuticals disposal program to promote safe disposal of unwanted medicines to address these substances' impact on water quality. To date the program has collected over 25 tons of unwanted pharmaceuticals. Just recently EBMUD's Pharmaceutical Take-Back Program added a new location at the pharmacy in the University of California Berkeley's Tang Center.

Environmental Stewardship

The Mokelumne River, EBMUD's primary water source, flows into the Sacramento-San Joaquin Delta. While EBMUD's supplies are not taken directly from the Delta, protection of the Delta and its environmental health are important to EBMUD. The Delta faces many challenges to its sustainability, both as a viable ecosystem and for water conveyance with its vast network of earthen levees. EBMUD, in partnership with the state and local interests, has invested over \$30 million to strengthen the levees that protect critical infrastructure, including EBMUD's water lifelines – the Mokelumne Aqueducts. EBMUD has also invested \$40 million to strengthen the aqueducts to help withstand seismic activity. The Delta itself is a dramatically altered ecosystem that presents many challenges to sustainable fisheries. In addition to making efforts to restore and enhance the salmon fishery in the Mokelumne River, EBMUD has worked cooperatively with state and federal regulatory agencies to develop and implement a flow agreement that protects Mokelumne fish. With the Water Supply Management Plan 2040, EBMUD intensified its commitment to water use efficiency and regional cooperation, thus reducing pressure on demands from the Delta watershed. With the state's continued pursuit of the California WaterFix (formerly the Bay Delta Conservation Plan), EBMUD has stepped up its advocacy to protect its interests regarding the Freeport Project operations, the

Mokelumne Aqueducts, the Mokelumne fishery, and other potential impacts.

EBMUD continued its stewardship efforts on the Mokelumne River in 2017 by continuing to improve river habitat for salmon and steelhead spawning, conducting a telemetry study of out-migrating salmon to better understand migratory path and survival, implementing pulse flows to enhance fish returns and working with federal water project operators to modify Delta operations to minimize impacts to salmon. The success indicator for these efforts is in the record breaking return of salmon to the Mokelumne River in 2017.

Water Quality and Safety

Federal and state regulatory agencies continually evaluate and establish new water quality standards for drinking water for protection of public health. Every day of the year EBMUD's laboratory tests water samples throughout the water system to ensure that water quality meets or surpasses all primary (health related) and secondary (aesthetic) drinking water standards established by the federal and state regulatory agencies. The testing results are summarized and released annually to the public through our Annual Water Quality Report. As a best management practice, EBMUD has implemented an added quality assurance protocol – internal water quality goals well below regulatory standards. In addition, the District has been actively working to reduce the public's exposure to lead in drinking water. On January 4, 2014, the national Safe Drinking Water Act amendment reduced the allowable lead content of drinking water plumbing fixtures from 8 to 0.25 percent lead. The 2011 law was fashioned after the 2010 California lead-free standard, whose language was the result of EBMUD sponsored legislation (AB1953). In FY17, the District initiated a free customer lead sampling program, enabling customers to sample water at their properties via a District contracted laboratory. Participation and test results continue to support the high quality of the District's delivered water and confidence in the District.



Generating Renewable Energy

Each year, EBMUD can generate over 400,000 Megawatts per hour (MWh) of renewable energy via its hydropower, photovoltaic and cogeneration facilities for its own use and sale. The sales of this renewable energy can bring in over \$10 million dollars each year. EBMUD's cogeneration efforts to turn organic wastes to energy were awarded the National Environmental Achievement Award from the National Association of Clean Water Agencies for its innovative and sustainable practices. This Resource Recovery Program operates at EBMUD's wastewater treatment plant provides 135 percent of the electricity needed to power the plant from renewable energy generated through food scraps, winery waste, fats, oils and greases and other organic waste. This reduces greenhouse gas emissions and provides substantial revenue, helping keep wastewater rates low.

LONG-TERM INFRASTRUCTURE INVESTMENT

EBMUD continually evaluates its complex infrastructure system and adjusts investments to address the most pressing reliability concerns. Keeping infrastructure in good condition protects the environment and public health. EBMUD is increasing investments in refurbishing and replacing infrastructure and dedicating more resources to replacing and renewing pipes, often using new and innovative technologies.

EBMUD recently unveiled its ambitious goal of increasing the annual pipeline renewal rate from 10 miles to 40 miles each year, putting EBMUD on a 100-year replacement schedule to maintain reliable water service. This "Pipeline Rebuild" effort is looking at everything from innovative pipe technologies to improved installation methods. A few years shy of celebrating our centennial anniversary, this is EBMUD's plan to ensure our pipes best serve today's customers—and those 100 years from now.

Pipeline Rebuild recently installed a new-to-EBMUD technology known as "Aqua-Pipe" at four sites (Richmond, San Pablo, Walnut Creek and Lafayette) during a pilot phase to explore a trenchless pipeline renewal method that requires less digging and neighborhood disruptions. This method involves inserting a structural liner in the existing pipes, making them like new and significantly reducing time spent on the job, spoils from the work, and impacts to the community.

Crews also installed 1,800 feet of earthquake-resistant ductile iron pipe in the Kensington Hills, located on the Hayward Fault. This pipe technology is new to EBMUD, but, since the 1970s, has a perfect track record

in Japan for surviving powerful tremors. The secret is in the pipe's flexible joints. During a large earthquake or landslide, the joints can compress, extend and deflect without failing.

In 2017, the District continues a critical \$22 million project to upgrade EBMUD's largest water treatment plant and to reduce the need for full plant maintenance shutdowns in the future. Serving approximately 120 million gallons of water to 800,000 customers every day, the Orinda Water Treatment Plant is one of six water treatment plants in EBMUD's service area. In service since 1935, the Orinda plant is the workhorse of EBMUD's local system and operates continually throughout the year. Power, treatment and chemical systems, along with process monitoring equipment, will all be upgraded.

Infrastructure rehabilitation master plans are continuously updated for all water infrastructure systems including aqueducts, pipelines, reservoirs, pumping plants, rate control stations, regulators and water treatment plants. Ongoing studies to determine capital funding needs on large diameter pipe replacements and extending the life of pipes are examples of efforts to maintain the current system and prevent disruptions by proactively upgrading facilities to deliver the best service to customers.

In the coming years, EBMUD will continue to invest in infrastructure while at the same time ensuring our services remain affordable. We will continue our efforts to earn the trust and satisfaction of our customers by providing high quality water and services at a reasonable price.

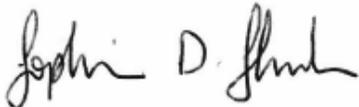


The Government Finance Officers' Association of the United States and Canada (GFOA) awarded a Certificate of Achievement for Excellence in Financial Reporting to EBMUD for its Comprehensive Annual Financial Report (CAFR) for the fiscal year ended June 30, 2016. The Certificate of Achievement is a prestigious national award recognizing conformance with the highest standards for preparation of a state and local government financial report. To be awarded a Certificate of Achievement, a government unit must publish an easily readable and efficiently organized CAFR that satisfied both generally accepted accounting principles and applicable legal requirements. This is the eighth consecutive year that EBMUD has received this award. We are submitting our current CAFR to determine its eligibility for another certificate.

In addition, the District also received the GFOA's Distinguished Budget Presentation Award for its Fiscal Year 2016-2017 biennial budget document. To qualify, the District's budget document had to be judged proficient as a policy document, a financial plan, an operations guide and a communications device.

I would like to thank the Board of Directors for their continued interest and support towards achieving excellence in financial management. Additionally, this report could not have been accomplished without the hard work and dedication of the entire Finance Department with recognition to the Accounting Division. Special appreciation is extended to, Scott Klein, Controller, Lawrence Fan, Accounting Systems Supervisor, David Siu, Accounting and Financial Systems Analyst, Crystal Zhang, Accountant III, Melody Wang, Accountant III, and Yenny Coburn, Accountant III. I would also like to thank staff members of other departments for the efforts they put into the preparation of this report.

Respectfully submitted,



Sophia D. Skoda
Director of Finance



Government Finance Officers Association

**Certificate of
Achievement
for Excellence
in Financial
Reporting**

Presented to

**East Bay Municipal Utility District
California**

For its Comprehensive Annual
Financial Report
for the Fiscal Year Ended

June 30, 2016

Executive Director/CEO

EBMUD has a seven-member Board of Directors publicly elected from wards within the EBMUD service area.

[John A. Coleman](#)

Director Coleman represents EBMUD's Ward No. 2 which is comprised of the cities of Alamo, Lafayette and Walnut Creek, Town of Danville, communities of Blackhawk and Diablo, and portions of San Ramon and Pleasant Hill.

[Andy Katz](#)

Director Katz represents EBMUD's Ward No. 4 which is comprised of the cities Albany, Berkeley, Emeryville, El Cerrito and Kensington as well as a portion of Oakland.

[Doug A. Linney](#)

Director Linney represents EBMUD's Ward No. 5 which is comprised of the cities of Alameda and San Lorenzo as well as West Oakland and the Oakland Airport Area and a portion of San Leandro.

[Lesa R. McIntosh](#)

Director McIntosh represents EBMUD's Ward No. 1 which is comprised of the cities of Crockett, Hercules, Rodeo and San Pablo; the communities of North Richmond and Selby, as well as portions of Richmond and Pinole.

[Frank G. Mellon](#)

Director Mellon represents EBMUD's Ward No. 7 which is comprised of the town of Castro Valley, the communities of Cherryland and Fairview, as well as portions of San Leandro, Hayward and San Ramon.

[William B. Patterson](#)

Director Patterson represents EBMUD's Ward No. 6 which is comprised of portions of Oakland (East Oakland and south of Park Blvd/5th Ave) to the San Leandro boundary.

[Marguerite Young](#)

Director Young represents EBMUD's Ward No. 3 which is comprised of the cities of Piedmont, Orinda and El Sobrante, Town of Moraga, as well as portions of Oakland, Pinole and Richmond.

Organizational Staffing

East Bay Municipal Utility District

BOARD OF DIRECTORS

Lesa R. McIntosh	President
William B. Patterson	Vice President
John A Coleman.....	Director
Andy Katz.....	Director
Doug A Linney	Director
Frank G. Mellon.....	Director
Marguerite Young.....	Director

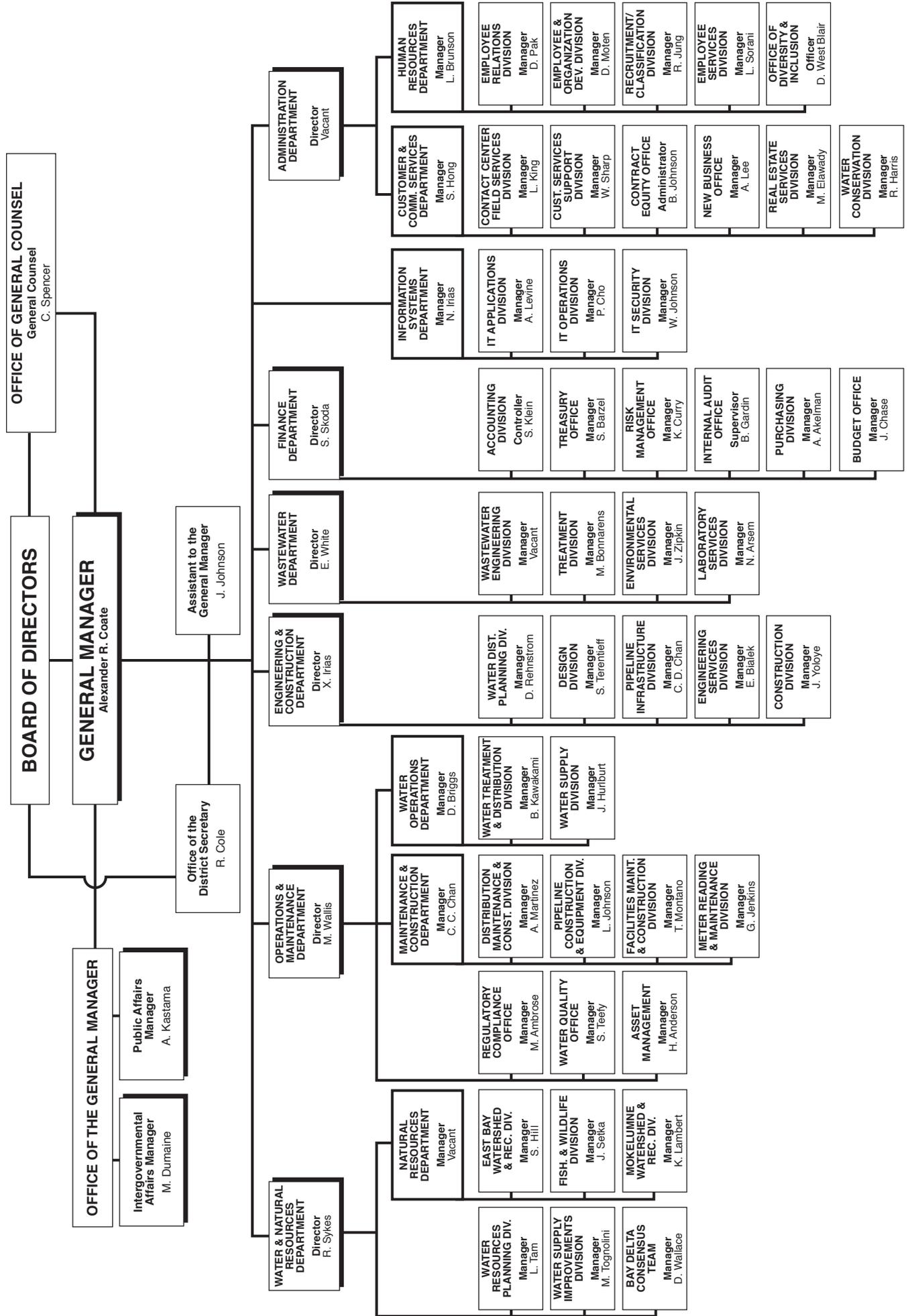
GENERAL MANAGER Alexander R. Coate

FINANCE DIRECTOR Sophia D. Skoda

CONTROLLER D. Scott Klein

PREPARED Accounting Division of the
Finance Department

P.O. Box 24055, Oakland, California 94623-1055
1-866-403-2683, FAX (510) 287-0315





Independent Auditor's Report

Management's Discussion and Analysis

Basic Financial Statements

Required Supplemental Information

Supplemental Information

EAST BAY MUNICIPAL UTILITY DISTRICT
BASIC FINANCIAL STATEMENTS
FOR THE YEARS ENDED JUNE 30, 2017 AND 2016

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INDEPENDENT AUDITOR'S REPORT

Board of Directors
East Bay Municipal Utility District
Oakland, California

Report on Financial Statements

We have audited the accompanying financial statements of each major fund and the discretely presented component unit, of the East Bay Municipal Utility District as of and for the years ended June 30, 2017 and 2016, and the related notes to the financial statements, which collectively comprise the District's basic financial statements as listed in the Table of Contents.

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 the financial statements that are free from material misstatement, whether due to fraud or error.

Auditor's Responsibility

Our responsibility is to express opinions on these financial statements based on our audits. We conducted our audits 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 audits 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 auditor's 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 District'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 District'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 opinions.

Opinions

In our opinion, the financial statements referred to above present fairly, in all material respects, the respective financial positions of each major fund and the discretely presented component unit of the East Bay Municipal Utility District as of June 30, 2017 and 2016, and the respective changes in the financial positions and cash flows, where applicable, thereof for the years then ended, in conformity with accounting principles generally accepted in the United States of America.

Emphasis of Matters

Management adopted the provisions of the following Governmental Accounting Standards Board Statements, which became effective during the year ended June 30, 2017 as discussed in Note 1R to the financial statements:

Statement No. 74 – Financial Reporting for Post-employment Benefit Plans Other than Pension Plans

Statement No. 82 – Pension Issues – An Amendment of GASB Statements No. 67, No. 68, and No. 73

The emphasis of these matters does not constitute a modification to our opinions.

Other Matters

Required Supplementary Information

Accounting principles generally accepted in the United States of America require that Management's Discussion, other required supplementary information as listed in the Table of Contents, and certain schedules of related to the Pension and Post Employment Healthcare Plan 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 this information in accordance with generally accepted auditing standards 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 Information

Our audit was conducted for the purpose of forming opinions on the financial statements that collectively comprise the District's basic financial statements as a whole. The Introductory Section, Supplemental Information, Statistical Section and Continuing Disclosure, as listed in the Table of Contents are presented for purposes of additional analysis and are not required parts of the basic financial statements.

The Supplemental Information is the responsibility of management and was derived from and relates directly to the underlying accounting and other records used to prepare the financial statements. The information has been subjected to the auditing procedures applied in the audit of the financial statements and certain additional procedures, including comparing and reconciling such information directly to the underlying accounting and other records used to prepare the financial statements or to the financial statements themselves, and other additional procedures in accordance with generally accepted auditing standards in the United States of America. In our opinion, the Supplemental Information is fairly stated in all material respects in relation to the basic financial statements as a whole.

The Introductory, Statistical and Continuing Disclosure Sections have not been subjected to the auditing procedures applied in the audit of the basic financial statements and, accordingly, we do not express an opinion or provide any assurance on them.

Other Reporting Required by Government Auditing Standards

In accordance with *Government Auditing Standards*, we have also issued our report dated September 28, 2017 on our consideration of the District'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 the 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 District's internal control over financial reporting and compliance.

Maze + Associates

Pleasant Hill, California
September 28, 2017

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EAST BAY MUNICIPAL UTILITY DISTRICT

Management's Discussion and Analysis

June 30, 2017

This section presents management's analysis of the East Bay Municipal Utility District's (the District) financial condition and activities as of and for the year ended June 30, 2017. Management's Discussion and Analysis (MDA) is intended to serve as an introduction to the District's basic financial statements.

This information should be read in conjunction with the audited financial statements that follow this section. The District, as the primary governmental entity, includes within the financial statements, the financial position and activities of the District's Employees' Retirement System (Employees' Retirement System) as a component unit. The Employees' Retirement System issues its own financial statements and MDA under separate cover. Significant matters pertaining to the Employees' Retirement System have been included in the notes to the financial statements as deemed appropriate.

The information in this MDA is presented under the following headings:

Organization and Business

Overview of the Basic Financial Statements

Financial Analysis

Capital Assets

Debt Administration

Request for Information

ORGANIZATION AND BUSINESS

The District provides water and wastewater services to industrial, commercial, residential and public authority users. The Water System collects, transmits, treats, and distributes high quality water to approximately 60% (332 square miles) of the developed area within Alameda and Contra Costa counties of California and serves a population of about 1.4 million. The Wastewater System intercepts and treats wastewater from residences and industries within an 88 square miles service area including the communities of Alameda, Albany, Berkeley, Emeryville, Oakland, Piedmont, and the Stege Sanitary District and serves a population of about 685,000. The District recovers cost of service primarily through user fees.

OVERVIEW OF THE BASIC FINANCIAL STATEMENTS

The District's basic financial statements are comprised of two components: (1) Fund Financial Statements and (2) Notes to Basic Financial Statements. The report also contains other required supplementary information in addition to the basic financial statements.

Fund Financial Statements. A fund is a grouping of related accounts that is used to maintain control over resources that have been segregated for specific activities or objectives. The District, like other special purpose governments, uses fund accounting to ensure and demonstrate compliance with financial-related legal requirements.

Proprietary Funds. The District's proprietary funds consist of two enterprise funds, the Water System and the Wastewater System. Enterprise funds are used to account for operations that are financed and operated in a manner similar to private business enterprises – where the intent of the governing body is that the costs (including depreciation) of providing goods or services to the general public on a continuing basis be financed or recovered primarily through user charges.

EAST BAY MUNICIPAL UTILITY DISTRICT

Management's Discussion and Analysis

June 30, 2017

The District's proprietary fund statements include:

The *Balance Sheet* presents information on the District's assets and deferred outflows, and liabilities and deferred inflows, with the difference between the two reported as *net position*. Over time, increases or decreases in net position may serve as a useful indicator of whether the financial position of the District is improving or deteriorating.

While the Balance Sheet provides information about the nature and amount of resources and obligations at year-end, the *Statement of Revenues, Expenses, and Changes in Net Position* presents the results of the District's operations over the course of the fiscal year and information as to how the net position changed during the year. This statement can be used as an indicator of the extent to which the District has successfully recovered its costs through user fees and other charges. All changes in net position are reported during the period in which the underlying event giving rise to the change occurs, regardless of the timing of the related cash flows. Thus, revenues and expenses are reported in this statement for some items that will result in cash flows in future fiscal periods, such as delayed collection of operating revenues and the expense of employee earned but unused vacation leave.

The *Statement of Cash Flows* presents changes in cash and cash equivalents resulting from operational, capital, noncapital, and investing activities. This statement summarizes the annual flow of cash receipts and cash payments, without consideration of the timing of the event giving rise to the obligation or receipt and excludes noncash accounting measures of depreciation or amortization of assets.

Fiduciary Fund. Fiduciary funds are used to account for resources held for the benefit of parties outside the government. The District's fiduciary fund consists of the Pension and Other Employee Benefit Trust fund, which is maintained to account for assets held by the Employees' Retirement System in a trustee capacity for vested and retired employees. The accounting used for fiduciary funds is much like that used for the proprietary funds.

Notes to Basic Financial Statements. The notes provide additional information that is essential to a full understanding of the data provided in the basic financial statements. The notes to basic financial statements can be found on pages 29 to 81 of this report.

Other Information. In addition to the basic financial statements and accompanying notes, this report also presents *certain required supplementary information* concerning the District's progress in funding its obligation to provide pension and other post-employment healthcare benefits to its employees. Such required supplementary information can be found on pages 85 to 90 of this report.

EAST BAY MUNICIPAL UTILITY DISTRICT

Management's Discussion and Analysis

June 30, 2017

FINANCIAL ANALYSIS

Financial Highlights

In fiscal year 2017, EBMUD continued to effectively manage its finances and strengthen its financial position by adopting sufficient water and wastewater rates to fund capital infrastructure improvements and to maintain strong financial performance. The following results of operations indicate a continuing strong and stable fiscal position.

The total assets and deferred outflows of the District exceeded the total liabilities and deferred inflows by \$1.5 billion (*net position*).

Net position increased by \$136 million or 10% during the fiscal year.

Capital assets increased by \$162 million or 4% to \$4.7 billion.

Operating revenue increased by \$9 million or 2% to \$534 million.

Operating expense increased by \$13 million or 3% to \$428 million.

Non-operating net expense decreased by \$3 million or 4% to (\$54) million.

Capital contributions increased by \$20 million or 30% from the prior fiscal year.

Financial Position

In the current year, the District's total net position increased by \$136 million or 10% during the fiscal year. Current and other assets increased by \$191 million or 25%. Capital assets increased by \$162 million or 4%. By far the largest portion of the District's net position, 76% or \$1.2 billion, represents its investment in capital assets necessary to provide services.

- The Water System's net position increased by \$108 million or 10% during the year ended June 30, 2017.
- The Wastewater System's net position increased by \$28 million or 11% during the year ended June 30, 2017.

In the previous fiscal year, the District's total net position increased by \$119 million or 9% during the fiscal year. Current and other assets decreased by \$90 million or 10%. Capital assets increased by \$124 million or 3%. By far the largest portion of the District's net position, 90% or \$1.2 billion, represents its investment in capital assets necessary to provide services.

EAST BAY MUNICIPAL UTILITY DISTRICT

Management's Discussion and Analysis

June 30, 2017

Table 1 shows the District's net position for the fiscal years ended June 30, 2017, 2016 and 2015:

Table 1
Net Position
Water and Wastewater
June 30, 2017 and 2016
(In thousands)

	<u>2017</u>	<u>2016</u>	<u>Variance</u>	<u>%</u>
Current and other assets	\$ 967,829	776,898	190,931	25%
Capital assets	4,651,237	4,489,702	161,535	4%
Deferred outflow of resources	230,903	148,078	82,825	56%
Total assets and deferred outflow	<u>5,849,969</u>	<u>5,414,678</u>	<u>435,291</u>	8%
Current and other liabilities	880,313	729,648	150,665	21%
Long-term liabilities	3,412,637	3,173,637	239,000	8%
Deferred inflow of resources	28,636	119,093	(90,457)	(76)%
Total liabilities and deferred inflow	<u>4,321,586</u>	<u>4,022,378</u>	<u>299,208</u>	7%
Net position:				
Net investment in capital assets	1,166,124	1,249,549	(83,425)	(7)%
Restricted	259,887	272,138	(12,251)	(5)%
Unrestricted	102,372	(129,387)	231,759	(179)%
Total net position	<u>\$ 1,528,383</u>	<u>1,392,300</u>	<u>136,083</u>	10%

Table 1
Net Position
Water and Wastewater
June 30, 2016 and 2015
(In thousands)

	<u>2016</u>	<u>2015</u>	<u>Variance</u>	<u>%</u>
Current and other assets	\$ 776,898	866,777	(89,879)	(10)%
Capital assets	4,489,702	4,366,034	123,668	3%
Deferred outflow of resources	148,078	104,496	43,582	42%
Total assets and deferred outflow	<u>5,414,678</u>	<u>5,337,307</u>	<u>77,371</u>	1%
Current and other liabilities	729,648	677,370	52,278	8%
Long-term liabilities	3,173,637	3,256,459	(82,822)	(3)%
Deferred inflow of resources	119,093	129,827	(10,734)	(8)%
Total liabilities and deferred inflow	<u>4,022,378</u>	<u>4,063,656</u>	<u>(41,278)</u>	(1)%
Net position:				
Net investment in capital assets	1,249,549	1,047,315	202,234	19%
Restricted	272,138	276,009	(3,871)	(1)%
Unrestricted	(129,387)	(49,673)	(79,714)	160%
Total net position	<u>\$ 1,392,300</u>	<u>1,273,651</u>	<u>118,649</u>	9%

EAST BAY MUNICIPAL UTILITY DISTRICT

Management's Discussion and Analysis

June 30, 2017

Results of Operations

In the current fiscal year, the District's total operating revenue of \$534 million for the year increased by \$9 million and total operating expense of \$428 million for the year increased by \$13 million. The change in net position (including capital contributions) increased from \$119 million in the previous fiscal year to \$136 million in the current fiscal year. The District's total net position increased from \$1,392 million to \$1,528 million during the current fiscal year.

The major components of the District's results of operations in the current fiscal year were:

- Water revenue remained stable due to a 3.6% increase in billed water consumption, and a 7% water rate increase, offset by \$5.7 million drought surcharge received in the current fiscal year compared to \$51.2 million received in the prior year.
- Wastewater revenues operating revenue increased by \$5 million or 5% primarily due to a 5% wastewater rate increase.
- The power revenue increase was due to release of excess water to generate more hydropower in the current year.
- Operating expense increased by \$13 million, primarily due to an increase of \$29 million in pension expense, increases of \$7 million in water treatment and distribution expense and \$5 million in depreciation expense, offset by a decrease in raw water expenses of \$27 million in supplemental water purchase and delivery in the prior fiscal year.
- Non-operating net expense decreased by \$3 million primarily due to a \$2 million increase in property tax received and \$1 million increase in sale of capital assets. Included in non-operating net expense is investment income (loss), consisting of interest earned on investment and the net change in the fair value of investments. The interest earned on investment and the net change in the fair value of investments were \$4 million and \$(1) million respectively in the current fiscal year, and \$3 million and \$119 thousand respectively in the prior fiscal year.
- Capital contributions increased by \$20 million primarily reflecting a \$12 million increase in System capacity charges and a \$5 million increase in Wastewater capacity fees due to increase of infill projects (multi-family dwelling and mixed used structures), particularly in the Oakland and Berkeley areas. Page 16 contains additional capital contributions information.

EAST BAY MUNICIPAL UTILITY DISTRICT

Management's Discussion and Analysis

June 30, 2017

In the previous fiscal year, the District's total operating revenue of \$525 million for the year increased by \$62 million and total operating expense of \$415 million for the year increased by \$30 million. The change in net position (including capital contributions) increased from \$87 million in fiscal year 2015 to \$119 million in the fiscal year 2016. The District's total net position increased from \$1,274 million to \$1,392 million during fiscal year 2016.

The major components of the District's results of operations in fiscal year 2016 were:

- Water revenue increased by \$59 million, reflecting an 8% water rate increase offset by a 13.8% decrease in billed water consumption and an additional \$51 million drought surcharge in fiscal year 2016.
- Wastewater revenues remained stable in the fiscal year 2016 compared to fiscal year 2015.
- Operating expense increased by \$30 million, primarily due to a \$21 million increase in supplemental water purchase and a \$6 million increase in water treatment and distribution expenses to deliver and treat the additional water supply from the Sacramento River.
- Non-operating net expense decreased by \$9 million primarily due to a \$15 million decrease in bond interest expense resulting from lower net adjusted interest expense and no non-recurring interest expense paid for advance refunding as in fiscal year 2015. The decrease in expense was offset by the \$3 million decrease of equity in JPA partnership fund compared to additional equity recognized in fiscal year 2015 and \$3 million decrease in other income from lower land sales in fiscal year 2016. Included in non-operating net expense is investment income (loss), consisting of interest earned on investment and the net change in the fair value of investments. The interest earned on investment and the net change in the fair value of investments were \$3 million and \$119 thousand respectively in fiscal year 2016, and \$4 million and \$89 thousand respectively in fiscal year 2015.
- Capital contributions decreased by \$10 million primarily reflecting a decrease of \$22 million in seismic improvement surcharges, which have now ended, offset by a \$10 million increase in system capacity charges and an increase of \$2 million in grants and other reimbursements in the fiscal year 2016 compared to fiscal year 2015. Page 16 contains additional capital contributions information.

EAST BAY MUNICIPAL UTILITY DISTRICT

Management's Discussion and Analysis

June 30, 2017

Table 2 shows changes in the District's net position for the fiscal years ended June 30, 2017, 2016, and 2015:

Table 2

Changes in Net Position

Water and Wastewater

June 30, 2017 and 2016

(In thousands)

	<u>2017</u>	<u>2016</u>	<u>Variance</u>	<u>%</u>
Operating Revenue:				
Water	\$ 420,293	421,240	(947)	(0)%
Sewer	81,904	77,542	4,362	6%
Power	8,707	4,771	3,936	82%
Wet weather facilities charges	23,105	21,918	1,187	5%
Total operating revenue	<u>534,009</u>	<u>525,471</u>	<u>8,538</u>	<u>2%</u>
Operating Expense:				
Raw water	37,551	64,386	(26,835)	(42)%
Water treatment & distribution	113,587	106,484	7,103	7%
Recreation areas, net	5,689	5,581	108	2%
Sewer lines & pumps	14,611	13,407	1,204	9%
Sewer treatment plant operations	35,147	33,292	1,855	6%
Customer accounting & collecting	19,915	19,110	805	4%
Financial and risk management	21,643	19,648	1,995	10%
Facilities management	5,177	6,329	(1,152)	(18)%
General administration	43,600	49,686	(6,086)	(12)%
Pension expense	6,194	(22,776)	28,970	(127)%
Depreciation (excluding amounts reported within the Water and Wastewater operations)	125,227	119,791	5,436	5%
Total operating expense	<u>428,341</u>	<u>414,938</u>	<u>13,403</u>	<u>3%</u>
Net operating income (expense)	105,668	110,533	(4,865)	(4)%
Nonoperating income (expense):				
Investment income	2,538	2,675	(137)	(5)%
Taxes & subventions	39,751	37,808	1,943	5%
Interest & amortization of bond expenses, net	(109,742)	(109,340)	(402)	0%
Increase (decrease) of Equity in JPA partnership fund	(3,759)	(3,081)	(678)	22%
Other income	16,848	15,050	1,798	12%
Total nonoperating income (expense), net	<u>(54,364)</u>	<u>(56,888)</u>	<u>2,524</u>	<u>(4)%</u>
Income (loss) before contributions	51,304	53,645	(2,341)	(4)%
Capital contributions	84,779	65,004	19,775	30%
Change in net position	136,083	118,649	17,434	15%
Total net position – beginning	<u>1,392,300</u>	<u>1,273,651</u>	<u>118,649</u>	<u>9%</u>
Total net position – ending	<u>\$ 1,528,383</u>	<u>1,392,300</u>	<u>136,083</u>	<u>10%</u>

EAST BAY MUNICIPAL UTILITY DISTRICT

Management's Discussion and Analysis

June 30, 2017

Table 2 (Continued)

Changes in Net Position

Water and Wastewater

June 30, 2016 and 2015

(In thousands)

	<u>2016</u>	<u>2015</u>	<u>Variance</u>	<u>%</u>
Operating Revenue:				
Water	\$ 421,240	362,136	59,104	16%
Sewer	77,542	76,417	1,125	1%
Power	4,771	3,303	1,468	44%
Wet weather facilities charges	21,918	21,809	109	0%
Total operating revenue	<u>525,471</u>	<u>463,665</u>	<u>61,806</u>	13%
Operating Expense:				
Raw water	64,386	43,538	20,848	48%
Water treatment & distribution	106,484	100,015	6,469	6%
Recreation areas, net	5,581	5,294	287	5%
Sewer lines & pumps	13,407	13,943	(536)	(4)%
Sewer treatment plant operations	33,292	32,478	814	3%
Customer accounting & collecting	19,110	19,869	(759)	(4)%
Financial and risk management	19,648	19,308	340	2%
Facilities management	6,329	6,858	(529)	(8)%
General administration	49,686	45,692	3,994	9%
Pension expense	(22,776)	(20,596)	(2,180)	11%
Depreciation (excluding amounts reported within the Water and Wastewater operations)	119,791	118,309	1,482	1%
Total operating expense	<u>414,938</u>	<u>384,708</u>	<u>30,230</u>	8%
Net operating income (expense)	110,533	78,957	31,576	40%
Nonoperating income (expense):				
Investment income	2,675	3,810	(1,135)	(30)%
Taxes & subventions	37,808	36,390	1,418	4%
Interest & amortization of bond expenses, net	(109,340)	(124,347)	15,007	(12)%
Increase (decrease) of Equity in JPA partnership fund	(3,081)	(360)	(2,721)	756%
Other income	15,050	18,169	(3,119)	(17)%
Total nonoperating income (expense), net	<u>(56,888)</u>	<u>(66,338)</u>	<u>9,450</u>	(14)%
Income (loss) before contributions	53,645	12,619	41,026	325%
Capital contributions	65,004	74,596	(9,592)	(13)%
Change in net position	118,649	87,215	31,434	36%
Total net position – beginning	1,273,651	1,663,682	(390,031)	(23)%
Prior period adjustment per implementation of GASB 68	—	(477,246)	477,246	(100)%
Total net position – ending	<u>\$ 1,392,300</u>	<u>1,273,651</u>	<u>118,649</u>	9%

EAST BAY MUNICIPAL UTILITY DISTRICT

Management's Discussion and Analysis

June 30, 2017

Liquidity

The District had \$668 million in combined current and non-current District Cash and Investments as of June 30, 2017, an increase of \$195 million compared to \$473 million as of June 30, 2016. Components of cash and investments for the year ended June 30, 2017 were:

- Water System total combined current and non-current cash and investments increased by \$181 million compared to the same date of the previous fiscal year. Net increase (decrease) in cash and cash equivalents increased by \$256 million compared to the prior year. This was primarily due to an increase of \$21 million from operating activities, and an increase of \$249 million from capital and related financing activities as a result of \$275 million new bond issuance proceeds net of \$26 million increase in capital spending, offset by a decrease of \$16 million from the reallocation of investments between short-term and long-term. Net increase (decrease) in non-current investments increased by \$16 million also primarily due to reallocation of investments between short-term and long-term.
- Wastewater System total combined current and non-current cash and investments increased by \$14 million compared to the same date in the previous fiscal year. For the year ended June 30, 2017, net increase (decrease) in cash and cash equivalents increased by \$19 million compared to the prior year primarily due to \$21 million new bond issuance proceeds in current fiscal year. Net increase (decrease) in non-current investments remained stable compared to the prior year.

Table 3 shows the District's cash flow for the fiscal years ended June 30, 2017, 2016 and 2015:

Table 3				
Cash Flows				
Water and Wastewater System				
June 30, 2017 and 2016				
(In thousands)				
	<u>2017</u>	<u>2016</u>	<u>Variance</u>	<u>%</u>
Cash and cash equivalents:				
Beginning of year	\$ 204,700	415,831	(211,131)	(51)%
Net cash provided by operating activities	267,208	246,911	20,297	8%
Net cash provided by financing activities	39,751	37,808	1,943	5%
Net cash provided by (used in) capital and related financing activities	(114,505)	(383,496)	268,991	(70)%
Net cash provided by (used in) investing activities	(128,097)	(112,354)	(15,743)	14%
Net increase (decrease) in cash and cash equivalents	<u>64,357</u>	<u>(211,131)</u>	<u>275,488</u>	<u>(130)%</u>
End of period	<u>269,057</u>	<u>204,700</u>	<u>64,357</u>	<u>31%</u>
Investments:				
Beginning of year	268,442	153,682	114,760	75%
Net increase (decrease) in investments	<u>130,317</u>	<u>114,760</u>	<u>15,557</u>	<u>14%</u>
End of period	<u>398,759</u>	<u>268,442</u>	<u>130,317</u>	<u>49%</u>
Total District Cash and Investments	<u>\$ 667,816</u>	<u>473,142</u>	<u>194,674</u>	<u>41%</u>

EAST BAY MUNICIPAL UTILITY DISTRICT

Management's Discussion and Analysis

June 30, 2017

Table 3 (Continued)
Cash Flows
Water and Wastewater System
June 30, 2016 and 2015
(In thousands)

	<u>2016</u>	<u>2015</u>	<u>Variance</u>	<u>%</u>
Cash and cash equivalents:				
Beginning of year	\$ 415,831	247,517	168,314	68%
Net cash provided by operating activities	246,911	218,125	28,786	13%
Net cash provided by financing activities	37,808	36,390	1,418	4%
Net cash provided by (used in) capital and related financing activities	(383,496)	(177,188)	(206,308)	116%
Net cash provided by (used in) investing activities	<u>(112,354)</u>	<u>90,987</u>	<u>(203,341)</u>	(223)%
Net increase (decrease) in cash and cash equivalents	<u>(211,131)</u>	<u>168,314</u>	<u>(379,445)</u>	(225)%
End of period	<u><u>204,700</u></u>	<u><u>415,831</u></u>	<u><u>(211,131)</u></u>	(51)%
Investments:				
Beginning of year	153,682	240,718	(87,036)	(36)%
Net increase (decrease) in investments	<u>114,760</u>	<u>(87,036)</u>	<u>201,796</u>	(232)%
End of period	<u><u>268,442</u></u>	<u><u>153,682</u></u>	<u><u>114,760</u></u>	75%
Total District Cash and Investments	<u><u>\$ 473,142</u></u>	<u><u>569,513</u></u>	<u><u>(96,371)</u></u>	(17)%

Cash and Investments by Fund

In fiscal years 2017 and 2016, total cash and investments available for operating and capital activities are reported in current and noncurrent assets as unrestricted and restricted funds. Significant activities in current fiscal year were as follows: Water System included increased reserves of \$4 million in working capital, \$2 million in self-insurance reserves, \$4 million in workers' compensation reserves, and \$170 million in capital reserves to fund capital projects, and additional \$11 million in funds received for construction; and release of \$9 million in debt service reserve fund through refunding Wastewater System increased reserve of \$1 million in working capital, \$1 million in workers' compensation reserves, and additional \$12 million in capital reserves to fund capital projects and equipment.

In the previous fiscal year, significant activities were as follows: Water System used \$95 million in capital reserves to fund capital projects and equipment, and increased reserves of \$4 million in funds received for construction. Wastewater System used \$5 million in capital reserves to fund capital projects and equipment.

Operating and Capital Reserves are components of Unrestricted Cash and Investments. Individual funds within Operating and Capital Reserves are funded pursuant to Board policy but are unrestricted as to use. The Unrestricted Reserve Balances indicate the District's ability to meet unanticipated revenue declines or expenditure increases. Unrestricted reserves are committed by the Board of Directors. This is distinct from restricted reserves which are legally constrained by law or by third party. For additional information see Note 1H on page 32.

Table 4 shows the District's cash and investment by fund for the fiscal years ended June 30, 2017, 2016 and 2015:

EAST BAY MUNICIPAL UTILITY DISTRICT

Management's Discussion and Analysis

June 30, 2017

Table 4
Cash and Investment by Fund

Water and Wastewater

June 30, 2017 and 2016

(In thousands)

	Water System		Wastewater System		Total		Increase (decrease)	
	2017	2016	2017	2016	2017	2016	Amount	%
Unrestricted cash and investment								
Operating reserves:								
Rate stabilization fund	\$ 95,000	95,000	24,090	24,090	119,090	119,090	—	0%
Working capital reserve	65,600	62,100	17,700	16,400	83,300	78,500	4,800	6%
Self-insurance	6,651	5,000	1,267	1,700	7,918	6,700	1,218	18%
Workers compensation	7,066	3,200	1,346	600	8,412	3,800	4,612	121%
Total operating reserves	<u>174,317</u>	<u>165,300</u>	<u>44,403</u>	<u>42,790</u>	<u>218,720</u>	<u>208,090</u>	<u>10,630</u>	<u>5%</u>
Capital reserves:								
Reserved for capital projects	334,746	168,768	31,771	23,884	366,517	192,652	173,865	90%
Reserve funded CIP - Wastewater	—	—	14,642	14,530	14,642	14,530	112	1%
Vehicle replacements	6,791	5,300	—	—	6,791	5,300	1,491	28%
Equipment replacements	3,282	1,063	10,062	5,779	13,344	6,842	6,502	95%
Total capital reserves	<u>344,819</u>	<u>175,131</u>	<u>56,475</u>	<u>44,193</u>	<u>401,294</u>	<u>219,324</u>	<u>181,970</u>	<u>83%</u>
Total Unrestricted cash and investment	<u>519,136</u>	<u>340,431</u>	<u>100,878</u>	<u>86,983</u>	<u>620,014</u>	<u>427,414</u>	<u>192,600</u>	<u>45%</u>
Restricted Cash and Investments								
Bond interest and redemption fund	519	5	18	18	537	23	514	2,235%
Debt service reserve fund	3,620	12,726	—	—	3,620	12,726	(9,106)	(72)%
Funds received for construction	40,924	30,243	—	—	40,924	30,243	10,681	35%
FERC partnership fund	2,185	2,201	—	—	2,185	2,201	(16)	(1)%
Monetary reserve	536	535	—	—	536	535	1	0%
Total restricted cash and investments	<u>47,784</u>	<u>45,710</u>	<u>18</u>	<u>18</u>	<u>47,802</u>	<u>45,728</u>	<u>2,074</u>	<u>5%</u>
Total District Cash and Investments	<u>\$ 566,920</u>	<u>386,141</u>	<u>100,896</u>	<u>87,001</u>	<u>667,816</u>	<u>473,142</u>	<u>194,674</u>	<u>41%</u>

Cash and Investment by Fund

Water and Wastewater

June 30, 2016 and 2015

(In thousands)

	Water System		Wastewater System		Total		Increase (decrease)	
	2016	2015	2016	2015	2016	2015	Amount	%
Unrestricted cash and investment								
Operating reserves:								
Rate stabilization fund	\$ 95,000	95,000	24,090	24,090	119,090	119,090	—	0%
Working capital reserve	62,100	61,700	16,400	15,800	78,500	77,500	1,000	1%
Self-insurance	5,000	5,000	1,700	1,700	6,700	6,700	—	0%
Workers compensation	3,200	3,200	600	600	3,800	3,800	—	0%
Total operating reserves	<u>165,300</u>	<u>164,900</u>	<u>42,790</u>	<u>42,190</u>	<u>208,090</u>	<u>207,090</u>	<u>1,000</u>	<u>0%</u>
Capital reserves:								
Reserved for capital projects	168,768	262,074	23,884	30,239	192,652	292,313	(99,661)	(34)%
Reserve funded CIP - Wastewater	—	—	14,530	14,472	14,530	14,472	58	0%
Vehicle replacements	5,300	7,600	—	—	5,300	7,600	(2,300)	(30)%
Equipment replacements	1,063	157	5,779	4,858	6,842	5,015	1,827	36%
Total capital reserves	<u>175,131</u>	<u>269,831</u>	<u>44,193</u>	<u>49,569</u>	<u>219,324</u>	<u>319,400</u>	<u>(100,076)</u>	<u>(31)%</u>
Total Unrestricted cash and investment	<u>340,431</u>	<u>434,731</u>	<u>86,983</u>	<u>91,759</u>	<u>427,414</u>	<u>526,490</u>	<u>(99,076)</u>	<u>(19)%</u>
Restricted Cash and Investments								
Bond interest and redemption fund	5	796	18	87	23	883	(860)	(97)%
Debt service reserve fund	12,726	12,672	—	—	12,726	12,672	54	0%
Funds received for construction	30,243	26,709	—	—	30,243	26,709	3,534	13%
FERC partnership fund	2,201	2,225	—	—	2,201	2,225	(24)	(1)%
Monetary reserve	535	534	—	—	535	534	1	0%
Total restricted cash and investments	<u>45,710</u>	<u>42,936</u>	<u>18</u>	<u>87</u>	<u>45,728</u>	<u>43,023</u>	<u>2,705</u>	<u>6%</u>
Total District Cash and Investments	<u>\$ 386,141</u>	<u>477,667</u>	<u>87,001</u>	<u>91,846</u>	<u>473,142</u>	<u>569,513</u>	<u>(96,371)</u>	<u>(17)%</u>

EAST BAY MUNICIPAL UTILITY DISTRICT

Management's Discussion and Analysis

June 30, 2017

Capital Contributions

Capital contributions primarily consist of System Capacity Charges (SCC) and Seismic Improvement Program (SIP) surcharges. Additionally, the District receives contributions when the District's facilities need to be relocated during construction projects. The District also receives state and federal grants to fund capital projects.

The Water System's SCC consists of charges collected from all applicants who request a new water service connection or a larger water meter size, and varies depending on geographic region. The SCC pays for the applicant's share of the capital facilities, including those that serve the entire water system such as the aqueducts and raw water facilities, regional facilities such as treatment plants and distribution facilities, and future water supply upgrades needed to meet long-term increases in water demand created by new customers. The portion of the SCC that pays for the future water supply is restricted and the remainder is unrestricted.

The Wastewater System's Capacity Fee is treated as unrestricted funds and pays for the share of Wastewater facilities attributed to new customers.

The Seismic Improvement Program (SIP) surcharge was implemented in 1994 to fund the District's SIP. The object of the program was to ensure that water service would be available after a seismic event to meet fire safety needs and to provide continued service to residential, commercial and industrial customers. The charge was anticipated to be in place through February 2025, but as a result of lower than expected construction costs, lower than expected financing costs, and higher revenues than anticipated, by the end of fiscal year 2015 the District has collected sufficient funds from the SIP surcharge to cover project costs. Accordingly, fiscal year 2015 was the last year that the District levied the seismic surcharge. No seismic surcharge revenues are being budgeted for fiscal year 2016 or fiscal year 2017.

System capacity charges increased by \$12 million and Wastewater capacity fees increased by \$5 million due to an increase of infill projects (multi-family dwelling and mixed used structures), particularly in the Oakland and Berkeley areas. Earned Contribution decreased by \$3 million due to fewer main extension footages installed. Grants and other reimbursements increased by \$6 million due to additional \$8 million received from Federal and State grants, offset by a decrease of \$2 million mitigation fees received.

Table 5 shows the District's capital contributions received for the fiscal years ended June 30, 2017, 2016 and 2015:

Table 5
Capital Contributions
Water and Wastewater
June 30, 2017 and 2016
(In thousands)

	Water System		Wastewater System		Total		Increase (decrease)	
	2017	2016	2017	2016	2017	2016	Amount	%
System capacity charges	\$ 51,451	39,321	—	—	51,451	39,321	12,130	31%
Wastewater capacity fees	—	—	7,969	3,142	7,969	3,142	4,827	154%
Earned contributions on construction	14,370	17,045	705	747	15,075	17,792	(2,717)	(15)%
Seismic improvement surcharge	9	33	—	—	9	33	(24)	(73)%
Grants and other reimbursements	10,081	4,392	194	324	10,275	4,716	5,559	118%
Totals	\$ 75,911	60,791	8,868	4,213	84,779	65,004	19,775	30%

EAST BAY MUNICIPAL UTILITY DISTRICT

Management's Discussion and Analysis

June 30, 2017

Table 5 (Continued)

Capital Contributions

Water and Wastewater

June 30, 2016 and 2015

(In thousands)

	Water System		Wastewater System		Total		Increase (decrease)	
	2016	2015	2016	2015	2016	2015	Amount	%
System capacity charges	\$ 39,321	29,725	—	—	39,321	29,725	9,596	32%
Wastewater capacity fees	—	—	3,142	2,786	3,142	2,786	356	13%
Earned contributions on construction	17,045	17,083	747	—	17,792	17,083	709	4%
Seismic improvement surcharge	33	22,164	—	—	33	22,164	(22,131)	(100)%
Grants and other reimbursements	4,392	2,557	324	281	4,716	2,838	1,878	66%
Totals	\$ 60,791	71,529	4,213	3,067	65,004	74,596	(9,592)	(13)%

CAPITAL ASSETS

The District had \$4.7 billion (net of accumulated depreciation) invested in a broad range of utility capital assets as of June 30, 2017. Total capital assets were \$4.5 billion as of June 30, 2016. The investment in capital assets includes land, buildings, improvements, water treatment plants, filter plants, aqueducts, water transmission and distribution mains, water storage facilities, pump stations, water reclamation facilities, wastewater and wet weather treatment facilities, machinery and equipment (*see Table 6 below*). In the current fiscal year, capital assets increased by \$162 million or 3.6% over the prior fiscal year. In fiscal year 2016, capital assets increased \$124 million or 2.8% over fiscal year 2015. Annual changes are consistent with the District's capital improvement program.

The Water System had \$3.9 billion (net of accumulated depreciation) invested in a broad range of utility capital assets as of June 30, 2017. The investment in capital assets includes land, buildings, improvements, water treatment plants, filter plants, aqueducts, water transmission and distribution mains, water storage facilities, power generation, pump stations, water reclamation facilities, machinery and equipment.

The Wastewater System had \$711 million (net of accumulated depreciation) invested in a broad range of utility capital assets as of June 30, 2017. The investment in capital assets includes land, buildings, improvements, power generation, wastewater and wet weather treatment facilities, machinery and equipment.

Table 6 shows the District's capital assets for the fiscal years ended June 30, 2017, 2016 and 2015:

Table 6

Capital Assets, Net of Depreciation

Water and Wastewater

June 30, 2017 and 2016

(In thousands)

	Water System		Wastewater System		Total		Increase/(decrease)	
	2017	2016	2017	2016	2017	2016	Amount	%
Structures, buildings, and equipment	\$ 3,470,628	3,434,454	632,224	608,946	4,102,852	4,043,400	59,452	1.5%
Land and rights of way	64,508	58,733	21,285	21,191	85,793	79,924	5,869	7.3%
Construction work in progress	405,357	302,973	57,235	63,405	462,592	366,378	96,214	26.3%
Totals	\$ 3,940,493	3,796,160	710,744	693,542	4,651,237	4,489,702	161,535	3.6%

EAST BAY MUNICIPAL UTILITY DISTRICT

Management's Discussion and Analysis

June 30, 2017

Table 6 (Continued)

Capital Assets, Net of Depreciation

Water and Wastewater

June 30, 2016 and 2015

(In thousands)

	<u>Water System</u>		<u>Wastewater System</u>		<u>Total</u>		<u>Increase/(decrease)</u>	
	<u>2016</u>	<u>2015</u>	<u>2016</u>	<u>2015</u>	<u>2016</u>	<u>2015</u>	<u>Amount</u>	<u>%</u>
Structures, buildings, and equipment	\$ 3,434,454	3,316,559	608,946	595,549	4,043,400	3,912,108	131,292	3.4%
Land and rights of way	58,733	58,445	21,191	21,017	79,924	79,462	462	0.6%
Construction work in progress	<u>302,973</u>	<u>309,445</u>	<u>63,405</u>	<u>65,019</u>	<u>366,378</u>	<u>374,464</u>	<u>(8,086)</u>	(2.2)%
Totals	<u>\$ 3,796,160</u>	<u>3,684,449</u>	<u>693,542</u>	<u>681,585</u>	<u>4,489,702</u>	<u>4,366,034</u>	<u>123,668</u>	2.8%

The District's net revenue, long-term debt, and contributions from customers are used to finance capital investments. More detailed information about the District's capital assets is presented in Note 3 to the basic financial statements.

This year's major capital expenditures included:

Water System:

Pumping Plant Rehabilitation	\$	49,610
Treatment Plant Upgrades		47,236
Pipeline Infrastruct Renewals		44,253
Reservoir Rehab/Maintenance		34,142
Summit Pressure Zone Improve		28,153
Dam Seismic Upgrades		23,531
Open Cut Reservoir Rehab		16,630
Addl Supplemental Supply Projs		14,566
WTTIP WTP Improvements		11,174
Raw Water Studies and Improves		9,479
SRV Recycled Water Program		8,322
Water Conservation Project		8,101
Pipeline Infra Renew Historic		7,631
Large Diameter Pipelines		7,205
Reservoir Tower Modifications		6,091
Pipeline Relocations		5,850
Faria PZI (formerly Purdue)		5,608
Service Lateral Replacements		5,340
West of Hills Master Plan		4,972
Water Capital Costs Misc.		3,960

Wastewater System:

Treatment Plant Infrastructure	\$	10,436
Digester Upgrade		8,213
Odor Control Improvements		7,389
Routine Cap Equip Replacement		5,327
Resource Recovery Project		4,558
Infiltration/Inflow Contrl Prj		4,325
DCS Upgrades		4,303
PS Q FM Dual-Mode Operation		3,075
3rd St Sewer Interceptor Rehab		2,212
MWWTP Master Plan		1,670
MWWTP Pwr Dist Sys Upgrade		1,083

EAST BAY MUNICIPAL UTILITY DISTRICT

Management's Discussion and Analysis

June 30, 2017

DEBT ADMINISTRATION

The District had total long-term debt outstanding of \$3.5 billion as of June 30, 2017, an 8% increase from June 30, 2016. Total long-term debt outstanding was \$3.2 billion as of June 30, 2016, a 2% decrease from June 30, 2015. Components of the District's long-term debt portfolio as of June 30, 2017 are:

- The Water System had total long-term debt outstanding of \$3.0 billion.
- The Wastewater System had total long-term debt outstanding of \$440 million.

Table 7 shows the District's long-term debt outstanding for the fiscal years ended June 30, 2017, 2016 and 2015:

Table 7
Long -Term Debt
(Net of Unamortized Costs)
Water and Wastewater
June 30, 2016 and 2015
(In thousands)

	Water System		Wastewater System		Total		Increase (decrease)	
	2017	2016	2017	2016	2017	2016	Amount	%
General obligation bonds	\$ —	—	3,602	7,616	3,602	7,616	(4,014)	(53)%
Revenue bonds	2,671,994	2,435,000	421,825	408,779	3,093,819	2,843,779	250,040	9%
Commercial paper	359,800	359,800	15,000	15,000	374,800	374,800	—	0%
Loans	12,892	13,957	—	—	12,892	13,957	(1,065)	(8)%
Totals	<u>\$ 3,044,686</u>	<u>2,808,757</u>	<u>440,427</u>	<u>431,395</u>	<u>3,485,113</u>	<u>3,240,152</u>	<u>244,961</u>	8%

Table 7
Long -Term Debt
(Net of Unamortized Costs)
Water and Wastewater
June 30, 2016 and 2015
(In thousands)

	Water System		Wastewater System		Total		Increase (decrease)	
	2016	2015	2016	2015	2016	2015	Amount	%
General obligation bonds	\$ —	—	7,616	11,500	7,616	11,500	(3,884)	(34)%
Revenue bonds	2,435,000	2,497,539	408,779	419,884	2,843,779	2,917,423	(73,644)	(3)%
Commercial paper	359,800	359,800	15,000	15,000	374,800	374,800	—	0%
Loans	13,957	14,996	—	—	13,957	14,996	(1,039)	(7)%
Totals	<u>\$ 2,808,757</u>	<u>2,872,335</u>	<u>431,395</u>	<u>446,384</u>	<u>3,240,152</u>	<u>3,318,719</u>	<u>(78,567)</u>	(2)%

EAST BAY MUNICIPAL UTILITY DISTRICT

Management’s Discussion and Analysis

June 30, 2017

It is the policy of the District to maintain a reasonable balance between debt and current revenue financing of capital projects. The following targets provide the framework for financing capital projects:

Debt Service Coverage Ratio: Maintain an annual revenue bond debt service coverage ratio of at least 1.6 times. As of June 30, 2017, the coverage ratio for Water was 1.87 and for Wastewater was 2.24; the overall District’s ratio was 1.93.

Debt-Funded Capital Spending: Limit debt-funded capital to no more than 65% of the total capital program over each five-year planning period. As of June 30, 2017, the percentage of debt-funded capital spending for Water was 56% and for Wastewater was 32%; the overall District’s percentage was 52%.

Extended Commercial Paper and Un-hedged Variable Rate Debt: Limit to 25% of outstanding long-term debt. As of June 30, 2017, the percentage of extended commercial paper and un-hedged variable rate debt compared to total outstanding long-term debt for Water was 13% and for Wastewater was 4%; the overall District’s percentage was 12%.

The District’s credit ratings are outlined in Table 8.

Table 8

Credit Ratings

Water and Wastewater

June 30, 2017

District debt by type	Rating by		
	Standard & Poor’s	Moody’s Investors Service	Fitch
Water system:			
Fixed Rate Revenue Bonds	AAA	Aa1	AA+
Variable Rate Revenue Bonds			
Long-term Underlying Rating	AAA	Aa1	-
Short-Term Rating	A-1+	VMIG-1	-
Commercial Paper Notes	A-1+	P-1	-
Wastewater system:			
General Obligation Bonds	AAA	Aa1	-
Fixed Rate Revenue Bonds	AAA	Aa2	AA+
Extendable Commercial Paper	A-1+	P-1	F1+

For detail credit rating by bond issue, please visit our website at <http://www.ebmud.com>.

Revenue-supported debt authorization for the District can be approved by the District’s Board of Directors, subject to a referendum process. At June 30, 2017, the Water System had \$764 million and the Wastewater System had \$186 million in authorized but unissued revenue bonds.

Additional information on the District’s long-term debt can be found in Note 6 to the financial statements.

EAST BAY MUNICIPAL UTILITY DISTRICT

Management's Discussion and Analysis

June 30, 2017

REQUEST FOR INFORMATION

This financial report is designed to provide ratepayers and creditors with a general overview of the District's finances and demonstrate the District's accountability for the monies it receives. If you have any questions about this report or need additional information, please contact: the Controller, Accounting Division, P.O. Box 24055, Oakland, CA 94623-1055 or visit our website at <http://www.ebmud.com>.

EAST BAY MUNICIPAL UTILITY DISTRICT
BALANCE SHEETS
JUNE 30, 2017 AND JUNE 30, 2016
(DOLLARS IN THOUSANDS)

	Water System		Wastewater System		Totals	
	June 30, 2017	June 30, 2016	June 30, 2017	June 30, 2016	June 30, 2017	June 30, 2016
Current assets:						
Cash and cash equivalents (Note 2)	\$177,417	\$117,885	\$44,173	\$46,087	\$221,590	\$163,972
Investments (Note 2)	341,719	222,546	56,705	40,896	398,424	263,442
Receivables:						
Customer	42,259	46,041	6,021	5,693	48,280	51,734
Interest and other	4,513	3,186	2,904	2,129	7,417	5,315
Materials and supplies	9,246	8,084	-	-	9,246	8,084
Prepaid Insurance	1,054	1,100	-	-	1,054	1,100
Total current assets	576,208	398,842	109,803	94,805	686,011	493,647
Noncurrent assets:						
Restricted cash and investments (Note 2):						
Cash and cash equivalents	47,449	40,710	18	18	47,467	40,728
Investments	335	5,000	-	-	335	5,000
Total restricted cash and investments	47,784	45,710	18	18	47,802	45,728
Other assets:						
Equity in JPA partnership fund (Note 2K)	233,210	236,968	-	-	233,210	236,968
Other	531	272	275	283	806	555
Total other assets	233,741	237,240	275	283	234,016	237,523
Capital assets (Note 3):						
Structures, buildings, and equipment	5,264,539	5,131,112	1,073,495	1,027,589	6,338,034	6,158,701
Less accumulated depreciation	(1,793,911)	(1,696,658)	(441,271)	(418,643)	(2,235,182)	(2,115,301)
Subtotal	3,470,628	3,434,454	632,224	608,946	4,102,852	4,043,400
Land and rights-of-way	64,508	58,733	21,285	21,191	85,793	79,924
Construction in progress	405,357	302,973	57,235	63,405	462,592	366,378
Total capital assets, net	3,940,493	3,796,160	710,744	693,542	4,651,237	4,489,702
Total noncurrent assets	4,222,018	4,079,110	711,037	693,843	4,933,055	4,772,953
Total assets	4,798,226	4,477,952	820,840	788,648	5,619,066	5,266,600
Deferred outflows of resources:						
Accumulated decrease in fair value of hedging derivatives (Note 6)	24,777	36,720	-	-	24,777	36,720
Debt refundings related	34,801	-	3,441	-	38,242	-
Pension related (Note 8G)	143,621	95,210	24,263	16,148	167,884	111,358
Total deferred outflows	203,199	131,930	27,704	16,148	230,903	148,078
Total assets and deferred outflows	\$5,001,425	\$4,609,882	\$848,544	\$804,796	\$5,849,969	\$5,414,678

(Continued)

EAST BAY MUNICIPAL UTILITY DISTRICT
BALANCE SHEETS
JUNE 30, 2017 AND JUNE 30, 2016
(DOLLARS IN THOUSANDS)

	Water System		Wastewater System		Totals	
	June 30, 2017	June 30, 2016	June 30, 2017	June 30, 2016	June 30, 2017	June 30, 2016
Current liabilities:						
Current maturities of long-term debt and Commercial Paper (Note 5 & 6)	\$58,926	\$52,860	\$13,550	\$13,655	\$72,476	\$66,515
Accounts payable and accrued expenses (Note 4)	68,852	77,375	9,342	10,322	78,194	87,697
Current reserve for claims (Note 9)	9,341	8,785	755	856	10,096	9,641
Accrued interest	9,063	9,584	1,521	1,685	10,584	11,269
Total current liabilities	146,182	148,604	25,168	26,518	171,350	175,122
Noncurrent liabilities:						
Advances for construction	21,125	10,558	-	-	21,125	10,558
OPEB liabilities (Note 8)	23,019	21,459	4,131	3,863	27,150	25,322
Reserve for claims (Note 9)	33,036	32,807	4,322	5,329	37,358	38,136
Net pension liability (Note 8G)	514,809	393,304	89,283	69,555	604,092	462,859
Other liabilities	12,834	11,527	6,404	6,124	19,238	17,651
Long-term liabilities, net of current maturities (Note 5 & 6)	2,985,760	2,755,897	426,877	417,740	3,412,637	3,173,637
Total noncurrent liabilities	3,590,583	3,225,552	531,017	502,611	4,121,600	3,728,163
Total liabilities	3,736,765	3,374,156	556,185	529,129	4,292,950	3,903,285
Deferred inflows of resources						
Derivative instrument (Note 6)	24,777	36,720	-	-	24,777	36,720
Pension related (Note 8G)	720	67,593	3,139	14,780	3,859	82,373
Total deferred inflows	25,497	104,313	3,139	14,780	28,636	119,093
Total liabilities and deferred inflows	3,762,262	3,478,469	559,324	543,909	4,321,586	4,022,378
Net position (Note 7):						
Net investment in capital assets	895,807	987,402	270,317	262,147	1,166,124	1,249,549
Restricted for construction (Note 1H)	19,799	19,685	-	-	19,799	19,685
Restricted for debt service (Note 1H)	4,139	12,731	18	18	4,157	12,749
Restricted for JPA	233,210	236,968	-	-	233,210	236,968
Restricted - other (Note 1H)	2,721	2,736	-	-	2,721	2,736
Unrestricted	83,487	(128,109)	18,885	(1,278)	102,372	(129,387)
Total net position	1,239,163	1,131,413	289,220	260,887	1,528,383	1,392,300
Total liabilities, deferred inflows and net position	\$5,001,425	\$4,609,882	\$848,544	\$804,796	\$5,849,969	\$5,414,678

See accompanying notes to financial statements

EAST BAY MUNICIPAL UTILITY DISTRICT
STATEMENTS OF REVENUES, EXPENSES, AND CHANGES IN NET POSITION
FOR THE YEARS ENDED JUNE 30, 2017 AND 2016
(DOLLARS IN THOUSANDS)

	Water System		Wastewater System		Total	
	June 30, 2017	June 30, 2016	June 30, 2017	June 30, 2016	June 30, 2017	June 30, 2016
Operating revenue:						
Water	\$420,293	\$421,240	-	-	\$420,293	\$421,240
Sewer	-	-	\$81,904	\$77,542	81,904	77,542
Power	7,807	3,525	900	1,246	8,707	4,771
Wet weather facilities charges	-	-	23,105	21,918	23,105	21,918
Total operating revenue	<u>428,100</u>	<u>424,765</u>	<u>105,909</u>	<u>100,706</u>	<u>534,009</u>	<u>525,471</u>
Operating expense:						
Raw water	37,551	64,386	-	-	37,551	64,386
Water treatment and distribution	113,587	106,484	-	-	113,587	106,484
Recreation areas, net	5,689	5,581	-	-	5,689	5,581
Sewer lines and pumping	-	-	14,611	13,407	14,611	13,407
Sewer treatment plant operations	-	-	35,147	33,292	35,147	33,292
Customer accounting and collecting	17,517	16,595	2,398	2,515	19,915	19,110
Financial and risk management	20,950	19,041	693	607	21,643	19,648
Facilities management	5,177	6,329	-	-	5,177	6,329
General administration	37,158	42,320	6,442	7,366	43,600	49,686
Depreciation expense	6,221	(18,703)	(27)	(4,073)	6,194	(22,776)
Depreciation on utility plant and vehicle	102,561	97,262	22,666	22,529	125,227	119,791
Total operating expense	<u>346,411</u>	<u>339,295</u>	<u>81,930</u>	<u>75,643</u>	<u>428,341</u>	<u>414,938</u>
Net operating income	<u>81,689</u>	<u>85,470</u>	<u>23,979</u>	<u>25,063</u>	<u>105,668</u>	<u>110,533</u>
Nonoperating income (expense):						
Investment income	2,111	2,183	427	492	2,538	2,675
Taxes and subventions	31,971	29,869	7,780	7,939	39,751	37,808
Interest and amortization of bond expenses, net of capitalized interest of \$10,358 and \$9,841 for the Water System and \$985 and \$1,445 for the Wastewater System in 2017 and 2016, respectively	(92,855)	(92,624)	(16,887)	(16,716)	(109,742)	(109,340)
Increase (decrease) of equity in JPA partnership fund	(3,759)	(3,081)	-	-	(3,759)	(3,081)
Other income	12,682	11,341	4,166	3,709	16,848	15,050
Total nonoperating income (expense), net	<u>(49,850)</u>	<u>(52,312)</u>	<u>(4,514)</u>	<u>(4,576)</u>	<u>(54,364)</u>	<u>(56,888)</u>
Income (loss) before capital contributions	31,839	33,158	19,465	20,487	51,304	53,645
Capital contributions	75,911	60,791	8,868	4,213	84,779	65,004
Change in net position	107,750	93,949	28,333	24,700	136,083	118,649
Total net position - beginning	1,131,413	1,037,464	260,887	236,187	1,392,300	1,273,651
Total net position - ending	<u>\$1,239,163</u>	<u>\$1,131,413</u>	<u>\$289,220</u>	<u>\$260,887</u>	<u>\$1,528,383</u>	<u>\$1,392,300</u>

See accompanying notes to financial statements

EAST BAY MUNICIPAL UTILITY DISTRICT
STATEMENTS OF CASH FLOWS
FOR THE YEARS ENDED JUNE 30, 2017 AND 2016
(DOLLARS IN THOUSANDS)

	Water System		Wastewater System		Total	
	June 30, 2017	June 30, 2016	June 30, 2017	June 30, 2016	June 30, 2017	June 30, 2016
Cash flows from operating activities						
Cash received from customers	\$431,882	\$415,965	\$105,581	\$100,687	\$537,463	\$516,652
Cash received from other income	12,682	11,341	4,166	3,709	16,848	15,050
Cash payments for judgments and claims	(7,668)	(7,787)	(273)	(195)	(7,982)	(7,982)
Cash payments to suppliers for goods and services	(37,167)	(61,081)	(28,699)	(25,467)	(65,866)	(86,548)
Cash payments to employees for services	(182,470)	(162,582)	(30,826)	(27,679)	(213,296)	(190,261)
Net cash provided by operating activities	217,259	195,856	49,949	51,055	267,208	246,911
Cash flows from noncapital financing activities:						
Tax receipts	31,971	29,869	7,780	7,939	39,751	37,808
Net cash provided by financing activities	31,971	29,869	7,780	7,939	39,751	37,808
Capital and related financing activities:						
Capital contributions	75,911	60,791	8,868	4,213	84,779	65,004
Proceeds from advances for construction	10,567	3,497	-	-	10,567	3,497
Proceeds from sale of capital assets	1,749	776	-	42	1,749	818
Net proceeds and premiums from sale of bonds	601,672	-	83,245	-	684,917	0
Acquisition and construction of capital assets	(266,255)	(228,474)	(41,637)	(36,667)	(307,892)	(265,141)
Principal retirement on long-term debt and commercial paper	(399,044)	(63,578)	(77,062)	(14,989)	(476,106)	(78,567)
Amount paid to refunding bond escrow agent	(2)	-	-	-	(2)	0
Costs and discounts from issuance on long-term debt	(1,498)	-	(592)	-	(2,090)	0
Interest paid on long-term debt	(93,376)	(92,319)	(17,051)	(16,788)	(110,427)	(109,107)
Net cash provided by (used in) capital and related financing activities	(70,276)	(319,307)	(44,229)	(64,189)	(114,505)	(383,496)
Cash flows from investing activities:						
Proceeds from securities	186,184	260,095	32,329	27,142	218,513	287,237
Expenditures from purchases of securities	(300,692)	(358,695)	(48,139)	(43,301)	(348,831)	(401,996)
Interest received on investments	1,825	2,055	396	350	2,221	2,405
Net cash provided by (used in) investing activities	(112,683)	(96,545)	(15,414)	(15,809)	(128,097)	(112,354)
Net increase (decrease) in cash and cash equivalents	66,271	(190,127)	(1,914)	(21,004)	64,357	(211,131)
Cash and cash equivalents:						
Beginning of year	158,595	348,722	46,105	67,109	204,700	415,831
End of period	\$224,866	\$158,595	\$44,191	\$46,105	\$269,057	\$204,700

(Continued)

EAST BAY MUNICIPAL UTILITY DISTRICT
STATEMENTS OF CASH FLOWS
FOR THE YEARS ENDED JUNE 30, 2017 AND 2016
(DOLLARS IN THOUSANDS)

	Water System		Wastewater System		Total	
	June 30, 2017	June 30, 2016	June 30, 2017	June 30, 2016	June 30, 2017	June 30, 2016
Net operating income	\$81,689	\$85,470	\$23,979	\$25,063	\$105,668	\$110,533
Adjustments to reconcile net operating income to net cash provided by operating activities:						
Pension expense	6,221	(18,703)	(27)	(4,073)	6,194	(22,776)
Depreciation on utility plant and vehicle	102,561	97,262	22,666	22,529	125,227	119,791
Depreciation within recreation areas	1,335	1,223	-	-	1,335	1,223
Amortization	16,276	17,501	1,769	2,139	18,045	19,640
Other income	12,682	11,341	4,166	3,709	16,848	15,050
Changes in assets/liabilities:						
Materials and supplies	(1,162)	(767)	-	-	(1,162)	(767)
Prepaid insurance	46	27	-	-	46	27
Customer receivables	3,782	(8,800)	(328)	(19)	3,454	(8,819)
Other assets	(1,300)	(268)	(736)	524	(2,036)	256
OPEB liability	1,560	1,425	268	246	1,828	1,671
Reserve for claims	785	4,594	(1,108)	(316)	(323.00)	4,278
Accounts payable and accrued expenses	(7,216)	5,551	(700)	1,253	(7,916)	6,804
	\$217,259	\$195,856	\$49,949	\$51,055	\$267,208	\$246,911
Net cash provided by operating activities						
Schedule of Non-Cash Activities						
Change in Fair Value	(\$1,546)	(\$311)	(\$186)	\$42	(\$1,732)	(\$269)

Reconciliation of net operating income to net cash provided by operating activities:
Net operating income
Adjustments to reconcile net operating income to net cash provided by operating activities:

Pension expense
Depreciation on utility plant and vehicle
Depreciation within recreation areas
Amortization
Other income
Changes in assets/liabilities:
Materials and supplies
Prepaid insurance
Customer receivables
Other assets
OPEB liability
Reserve for claims
Accounts payable and accrued expenses

Net cash provided by operating activities

Schedule of Non-Cash Activities
Change in Fair Value

See accompanying notes to financial statements

EAST BAY MUNICIPAL UTILITY DISTRICT
STATEMENTS OF FIDUCIARY NET POSITION
FIDUCIARY FUND - PENSION AND OTHER EMPLOYEE BENEFIT TRUST
(COMPONENT UNIT)
JUNE 30, 2017 AND 2016
(DOLLARS IN THOUSANDS)

	2017	2016
Assets:		
Cash and investments (Note 2)	\$48,988	\$40,657
Invested securities lending collateral (Note 2)	108,858	119,265
Receivables:		
Contributions	1,263	4,551
Interest and other	6,790	3,681
Prepaid insurance	518	502
Retirement system investments, at fair value (Note 2)		
U.S. government obligations	66,948	83,039
Municipal bonds	2,135	2,367
Domestic corporate bonds	166,149	150,784
International bonds	16,628	20,257
Domestic stocks	1,005,785	854,501
International stocks	222,051	183,577
Real estate	84,282	83,140
Total Investments	1,563,978	1,377,665
Total assets	1,730,395	1,546,321
Liabilities:		
Accounts payable and accrued expenses	2,061	1,755
Retirement system liabilities	6,832	7,172
Securities lending collateral (Note 2)	108,858	119,265
Total liabilities	117,751	128,192
Net position:		
Held in trust for pension benefits	1,580,556	1,391,771
Held in trust for post-employment healthcare benefits	32,088	26,358
Total net position	\$1,612,644	\$1,418,129

See accompanying notes to basic financial statements

EAST BAY MUNICIPAL UTILITY DISTRICT
STATEMENTS OF CHANGES IN FIDUCIARY NET POSITION
FIDUCIARY FUND - PENSION AND OTHER EMPLOYEE BENEFIT TRUST
(COMPONENT UNIT)
FOR THE YEARS ENDED JUNE 30, 2017 AND 2016
(DOLLARS IN THOUSANDS)

	2017	2016
Additions:		
Contributions		
Employer	\$76,860	\$74,672
Plan members	16,018	14,925
Total contributions	92,878	89,597
Investment income:		
Net appreciation (depreciation) in fair value of investments		
Traded securities	176,883	(10,122)
Real estate	1,329	2,646
Interest	6,731	5,879
Dividends	21,014	19,346
Real estate operating income, net	1,120	1,098
Total investment income	207,077	18,847
Less:		
Investment expense	(4,607)	(4,293)
Borrowers' rebates and other agent fees on securities lending transactions	(787)	(349)
Net investment income	201,683	14,205
Total additions, net	294,561	103,802
Deductions:		
Benefits paid	98,152	91,152
Refund of contributions	465	419
Administrative expenses	1,429	1,311
Total deductions	100,046	92,882
Change in net position	194,515	10,920
Net position:		
Beginning of year	1,418,129	1,407,209
End of year	\$1,612,644	\$1,418,129

See accompanying notes to basic financial statements

**EAST BAY MUNICIPAL UTILITY DISTRICT
NOTES TO BASIC FINANCIAL STATEMENTS
FOR THE YEARS ENDED JUNE 30, 2017 AND 2016
(Dollars in Thousands)**

NOTE 1 - SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

A. Description of the Primary Government

The East Bay Municipal Utility District (the District) was formed in May 1923 under the provisions of the Municipal Utility District Act of 1921, as amended in 1941. The District is comprised of two financially independent entities: the Water System and the Wastewater System. These two entities are governed by the same elected seven-member Board of Directors which determines such matters as rates and charges for services, approval of contracts, and District policies. The Water System provides administrative and other support services to the Wastewater System. These costs are charged to the Wastewater System.

B. Description of the Component Unit

The District's Employees' Retirement System (the Employees' Retirement System or the Plan) has been reported as a Pension and Other Employee Benefit Trust fund (a fiduciary fund) in the accompanying basic financial statements and is discretely presented. The System provides retirement, disability, survivorship, and post-employment health insurance benefits for eligible directors, officers, and employees of the District. The System is administered by a Retirement Board composed of three members appointed by the Board of Directors of the District, two members elected by and from the active membership, and one (nonvoting) member elected by and from the retired membership of the System. Retirement Ordinance No. 40 (Ordinance) assigns the authority to establish Plan benefit provisions to the District's Board of Directors.

Copies of the audited financial statements of the Employees' Retirement System may be obtained by writing to the Controller, P.O. Box 24055, Oakland, CA 94623 or visit our website at <http://www.ebmud.com>.

C. Basis of Presentation

The accounts of the District are organized and operated on a fund basis. The operations of each fund are accounted for with a separate set of self-balancing accounts that comprise its assets, deferred outflows, liabilities, deferred inflows, net position, revenues, and expenses.

The basic financial statements include prior year comparative information. A complete presentation of the prior year information can be found in the District's financial statements for the year ended June 30, 2016.

The District reports the following major proprietary (enterprise) funds:

The **Water System** is engaged in the collection, transmission, and distribution of water to communities within Alameda and Contra Costa counties of California.

The **Wastewater System** is engaged in the interception and treatment of wastewater from residences and industries in the California communities of Alameda, Albany, Berkeley, Emeryville, Oakland, Piedmont, and the Stege Sanitary District.

Additionally, the District reports the following fiduciary fund:

**EAST BAY MUNICIPAL UTILITY DISTRICT
NOTES TO BASIC FINANCIAL STATEMENTS
FOR THE YEARS ENDED JUNE 30, 2017 AND 2016
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NOTE 1 - SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES (Continued)

The **Pension and Other Employee Benefit Trust** is used to account for the resources held by the Employees' Retirement System which provides retirement, disability, and survivorship benefits for eligible directors, officers, and employees of the District.

Enterprise funds are used to account for operations that are financed and operated in a manner similar to private business enterprises – where the intent of the governing body is that the costs (expenses, including depreciation) of providing goods or services to the general public on a continuing basis be financed or recovered primarily through user charges. The Pension and Other Employee Benefit Trust fund is maintained to account for assets held by the Employees' Retirement System in a trustee capacity.

D. Basis of Accounting

Proprietary funds and the Pension and Other Employee Benefit Trust fund are accounted for on a flow of economic resources measurement focus, using the accrual basis of accounting. Under this method, all assets, deferred outflows, liabilities and deferred inflows associated with operations are included on the balance sheet, and revenues are recorded when earned and expenses are recorded at the time liabilities are incurred.

Proprietary funds distinguish *operating* revenues and expenses from *non-operating* items. Operating revenues and expenses generally result from providing services and producing and delivering goods in connection with a proprietary fund's principal ongoing operations. The principal operating revenues of the District are charges to customers for sales and services. The District also recognizes wet weather facilities charges as operating revenue. Operating expenses for enterprise funds include the cost of sales and services, administrative expenses, and depreciation on capital assets. All revenues and expenses not meeting this definition are reported as non-operating revenues and expenses.

When both restricted and unrestricted resources are available for use, it is the District's policy to use restricted resources first, then unrestricted resources as they are needed.

In addition, the accounting policies of the District conform to accounting policies generally accepted in the United States of America for water utilities. The accounts are maintained substantially in accordance with the Uniform System of Accounts for Water Utilities followed by investor-owned and major municipally owned water utilities.

Balance Sheet – The balance sheet is designed to display the financial position of the District. The District's fund equity is reported as net position, which is broken down into three categories defined as follows:

- Net investment in capital assets – This component of net position consists of capital assets, net of accumulated depreciation and reduced by the outstanding balances of any bonds, notes, or other borrowings that are attributable to the acquisition, construction, or improvement of those assets and related deferred inflows and outflows.
- Restricted – This component of net position consists of constraints placed on net position use through external constraints imposed by creditors (such as through debt covenants), grantors, contributors, or law or regulations of other governments. It also pertains to constraints imposed by law or constitutional provisions or enabling legislation.

**EAST BAY MUNICIPAL UTILITY DISTRICT
NOTES TO BASIC FINANCIAL STATEMENTS
FOR THE YEARS ENDED JUNE 30, 2017 AND 2016
(Dollars in Thousands)**

NOTE 1 - SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES (Continued)

- Unrestricted – This component of net position consists of net assets that do not meet the definition of “restricted” or “net investment in capital assets.”

Statement of Revenues, Expenses, and Changes in Net Position – The statement of revenues, expenses, and changes in net position is the operating statement for proprietary funds. Revenues are reported by major source. This statement distinguishes between operating and non-operating revenues and expenses and presents a separate subtotal for operating revenues, operating expenses, and other income.

E. Use of Estimates and Assumptions

The preparation of financial statements in conformity with accounting principles generally accepted in the United States of America 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 expenses during the reporting period. Actual results could differ from those estimates.

F. Capital Assets

Utility Plant – at Original Cost

The cost of additions to utility plant and replacement of retired units of property are capitalized. Cost includes material, direct labor and fringe benefits, transportation, and such indirect items as engineering, supervision, and interest during construction based on the interest rate on outstanding debt of the system in the prior fiscal year as allowed by GASB 76. Repairs, maintenance, and minor purchases of equipment are charged to expenses as incurred.

The depreciated cost of capital assets, plus removal costs, less salvage, is charged to expense upon retirement.

Water Supply Management Program

Costs incurred in this program are debt funded and capitalized in construction in progress. These costs are transferred to utility plant upon completion of the project and depreciated over their useful life. Debt service costs on the debt used to finance the program are recovered in future through connection fees and rates and charges for service to those benefiting from the program.

Preliminary Survey and Investigation Costs

The District capitalizes initial costs incurred to study and evaluate certain potential long-term capital projects. These costs are transferred to property, plant and equipment upon completion of the project and are depreciated over the life of the asset. In the event the project is abandoned, these costs are expensed.

**EAST BAY MUNICIPAL UTILITY DISTRICT
NOTES TO BASIC FINANCIAL STATEMENTS
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NOTE 1 - SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES (Continued)

Contract Water Rights

The District has contracted with the U.S. Bureau of Reclamation for water deliveries from the Central Valley Project (CVP) through February 2046 (Long Term Renewal Contract), with the anticipation of subsequent renewals of 40 year terms. Payments under the contract include reimbursement based on the amounts of water delivered to EBMUD of capital costs for CVP storage and conveyance facilities (EBMUD's current allocation is \$3,100) and the Operation & Maintenance Deficit (EBMUD's current balance is \$6,781). The Water Enterprise Fund capitalized the two components.

G. Depreciation

Depreciation of capital assets is computed on a straight-line basis using the estimated service lives of the related assets (5 to 100 years).

H. Restricted Assets

The District segregates cash and investments into funds that are "Restricted" and "Unrestricted." Funds are "restricted" when limitations on use of the resources are imposed by creditors, grantors, contributors, laws or regulations of other governments, or imposed by law through constitutional provision or by enabling legislation. "Unrestricted" resources are committed by the Board of Directors through the passage of a resolution, or constrained for a specific purpose by committees or officials with authority delegated by the Board. The exception is the Reserve for Capital Projects which is anticipated but not committed or constrained to be used for the District's capital improvement program.

Unrestricted cash and investments are further categorized into Operating and Capital Reserves:

Operating Reserves:

- Rate Stabilization Fund (RSF) reserve is established by Policy 4.02, as adopted by the Board of Directors in the biennial budget, to maintain at least 20% of projected annual water volume revenues for Water and at least 5% of annual operating and maintenance expenses for Wastewater. Funding of the RSF is consistent with the District's Bond indentures. In fiscal year 2014, the District combined the Rate Stabilization Fund referenced in the Bond indentures and the Contingency and Rate Stabilization Reserve referenced in Policy 4.02 into a single Rate Stabilization Fund reserve to enhance transparency.
- Working Capital reserve is established by Policy 4.02, as adopted by the Board of Directors in the biennial budget, to maintain at least three times the District's monthly net operating and maintenance expenses.
- Self-insurance reserve is established by Policy 4.02, as adopted by the Board of Directors in the biennial budget, to maintain a level based on the Actuarial Self-Insured Retention (SIR) funding recommendation for the following year's discounted loss and allocated loss adjustment expenses (ALAE) funding guidelines. Reserve amount should be calculated at a high (85%) confidence level. If an actuarial study is not available before close of the prior fiscal year end, the reserve shall equal 1.15 times the prior year reserve.

**EAST BAY MUNICIPAL UTILITY DISTRICT
NOTES TO BASIC FINANCIAL STATEMENTS
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NOTE 1 - SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES (Continued)

- Workers' compensation reserve is established by Policy 4.02, as adopted by the Board of Directors in the biennial budget, to maintain a level based on the Actuarial SIR funding recommendation for the following year's discounted loss and ALAE funding guidelines. Reserve amount should be calculated at a high (85%) confidence level. If an actuarial study is not available before close of the prior fiscal year end, the reserve shall equal 1.15 times the prior year reserve.

Capital Reserves:

- Reserve for Capital Projects comprises the resources available for cash funding of the District's capital improvement program as projected in conjunction with the biennial budget.
- Reserve Funded CIP (Wastewater) balance is a specific designation [Board Motion No. 029-94] used to fund wet and dry weather eligible construction projects.
- Vehicle Replacement Fund [Board Motion No. 030-94] is financed by deposits based on internal user rate charges, and used to reimburse operational expenditures and vehicle replacement purchases.
- Equipment Replacement Fund was established by the District with the implementation of the Wastewater Capacity Fees effective July 1, 1984. The balance in this account represents funds set aside for future wastewater department equipment replacements.

Restricted funds include the following:

- Debt funded construction funds are the proceeds of bond or commercial paper issues that are restricted for use on eligible projects in the District's capital program. The current year balance is \$0 for Water and Wastewater.
- Capitalized Interest fund is restricted by the District's bond indenture for the purpose of defraying that bond issue's debt service payments for a specified period. The current year balance is \$0 for Water and Wastewater.
- Bond Interest and Redemption fund is required, under the District's bond indentures, in order for the District to transfer funds to the Trustee for the payment of principal and interest on the outstanding bonds one business day prior to the date such payment is due. The District uses the Bond Interest and Redemption Fund to segregate funds accumulated for such payments. In addition, under certain of the interest rate swap agreements related to the District's outstanding bonds, the District is required to post collateral to the swap counterparty to the extent that the District's total exposure for termination payments under the swap agreement exceeds the threshold amount specified in the applicable swap agreement. The District also uses the Bond Interest and Redemption Fund to segregate District funds held by the applicable custodian to satisfy this collateral posting obligation. As of June 30, 2017 and 2016, respectively, the balances were \$519 and \$5 for Water, and \$18 and \$18 for Wastewater.

**EAST BAY MUNICIPAL UTILITY DISTRICT
NOTES TO BASIC FINANCIAL STATEMENTS
FOR THE YEARS ENDED JUNE 30, 2017 AND 2016
(Dollars in Thousands)**

NOTE 1 - SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES (Continued)

- Debt Service Reserve fund is created and required to be maintained at a specified level in connection with certain series of the District's outstanding bonds. Amounts in a Bond Reserve Fund may only be used (a) for the payment of principal of and interest on the related series of bonds in the event the District fails to transfer the required payment from the related system Revenue Fund (the respective designated part of the General Fund) (b) for the payment of redemption of all of the related series of bonds then outstanding or (c) for the payment of the final principal and interest payments on the related series of bonds. As of June 30, 2017 and 2016 respectively, the balances were \$3,620 and \$12,726 for Water, and \$0 for Wastewater.
- Funds received for construction reflect advances received from applicants for work to be performed by the District and the unspent future water supply component of system capacity charges. This fund is used for the construction of major facilities, applicant requested services, and the design and construction of water supply improvement program projects. The balance as of June 30, 2017 was \$40,924 for Water (\$19,323 for Future Water Supply projects, \$21,601 for Applicant Work) and \$0 for Wastewater. The balance as of June 30, 2016 was \$30,243 for Water (\$19,170 for Future Water Supply projects, \$11,073 for Applicant Work) and \$0 for Wastewater.
- FERC partnership fund of \$2 million was established January 11, 1999, in compliance with Federal Energy Regulatory Commission (FERC) order which brought resolution to its Mokelumne River Proceeding. The District manages the fund and income derived from investing the funds to provide operating support to the Joint Settlement Agreement with US Fish and Wildlife and California Fish and Game to protect the Mokelumne River Ecosystem from Pardee Reservoir to the Delta. The principal and any unused earnings shall remain the property of the District and will revert to the District upon expiration of the agreement in March 2031 or upon withdrawal of any party to the agreement. As of June 30, 2017 and 2016, respectively, the balances were \$2,185 and \$2,201 for Water.
- Monetary Reserve represents money on deposit in the name of the District with the Automated Power Exchange Inc. (APX) in accordance with the terms and conditions of the Automated Power Exchange Inc. California Master Service Agreement of July 15, 1999, entered between the District and APX for the sale and purchase of electric power. The funds held on deposit shall be withdrawn by the Depository and Clearing Agent in the event that sufficient funds are not deposited in the District settlement account to cover power exchange transactions. As of June 30, 2017 and 2016, respectively, the balances were \$536 and \$535 for Water.

I. Deferred Amount on Bond Refundings

Gains and losses incurred in connection with debt refunding transactions are deferred and amortized over the shorter of the life of the refunded debt or the new debt.

**EAST BAY MUNICIPAL UTILITY DISTRICT
NOTES TO BASIC FINANCIAL STATEMENTS
FOR THE YEARS ENDED JUNE 30, 2017 AND 2016
(Dollars in Thousands)**

NOTE 1 - SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES (Continued)

J. Cash and Cash Equivalents

For purposes of the statement of cash flows, the District considers all highly liquid investments with original maturities of three months or less at the date of purchase to be cash equivalents.

K. District Investments

Investments are stated at fair value. Included in investment income (loss) is the net change in the fair value of investments, which consists of the realized gains or losses and the unrealized appreciation (depreciation) of those investments.

Measurement of the fair value of investments is based upon quoted market prices, if available. The estimated fair value of investments that have no quoted market price is determined based on equivalent yields for such securities or for securities of comparable maturity, quality, and type as obtained from market makers.

Each of the financial instruments invested in by the District represents a potential concentration of credit risk. However, as the portfolio and the components of the various instruments are diversified, and issuers of securities are dispersed throughout many industries and geographic locations, the concentrations of credit risk are limited.

L. Retirement System Investments

Investments are reported at fair value. Securities and bonds traded on a national or international exchange are valued at the last reported sales price at current exchange rates. Investments that have no quoted market price are reported at estimated fair value, which is determined based on yields equivalent for such securities or for securities of comparable maturity, quality, and type as obtained from market makers. Measurement of the fair value of real estate investments is estimated by the investment managers and reflects both internal and independent appraisals of real estate properties.

The System presents in the Statements of Changes in Plan Net Position the net change in the fair value of its investments, which consists of the realized gains or losses and the unrealized appreciation (depreciation) on those investments. Purchases and sales of securities are recorded on a trade-date basis. Interest income is recorded on the accrual basis. Dividends are recorded on the ex-dividend date.

Each of the financial instruments invested in by the System represents a potential concentration of credit risk. However, as the portfolio and the components of the various instruments are diversified and issuers of securities are dispersed throughout many industries and geographical locations, the concentrations of credit risk are limited.

The System invests in a combination of stocks, bonds, fixed income securities, real estate, and other investment securities. These investments are exposed to various risks, such as interest rate and market risks. Due to the level of risk associated with certain investment securities, it is at least reasonably possible that changes in the values of investment securities will occur in the near term and those such changes could materially affect the amounts reported in the Statement of Plan Net Position.

**EAST BAY MUNICIPAL UTILITY DISTRICT
NOTES TO BASIC FINANCIAL STATEMENTS
FOR THE YEARS ENDED JUNE 30, 2017 AND 2016
(Dollars in Thousands)**

NOTE 1 - SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES (Continued)

Retirement Board policies permit the System to use investments of the Plan to enter into securities lending transactions, which are loans of securities to broker-dealers and other entities for collateral with a simultaneous agreement to return collateral for the same securities in the future. The System's securities custodian is an agent in lending the Plan's securities for cash collateral, U.S. government securities, and irrevocable letters of credit of 102% for domestic securities and 105% for international securities lent.

As of June 30, 2017, the System had no credit risk exposure to borrowers because the amounts the System owed the borrowers exceeded the amounts the borrowers owed the System. Contracts with the lending agent require them to indemnify the System under certain circumstances if the borrowers fail to return the securities (and if the collateral is inadequate to replace the securities lent) or fail to pay the System for income distributions by the securities issuers while the securities are on loan. The risk of any loss of collateral or investment of cash collateral (including a loss of income or principal, or loss of market value thereon) lies with the System, except for losses resulting from negligence or intentional misconduct of the agent in performing the duties allocated under the securities lending agreement with respect to collateral. During the year ended June 30, 2017, there were no violations of legal or contractual provisions, and no borrower or lending agent default losses known to the securities lending agent.

In lending securities, cash collateral is invested in the lending agent's short-term investment pool, which as of June 30, 2017, had a weighted average maturity of 33 days. The relationship between the maturities of the investment pool and the System's loans is affected by the maturities of the securities loans made by other entities that use the agent's pool, which the System cannot determine. Cash collateral may also be invested separately in term loans, in which case the maturity of the collateral investment generally matches the term of the loan. Noncash collateral cannot be pledged or sold unless the borrower defaults. All securities loans can be terminated on demand by either the lender or the borrower, although the average term of overall loans for the System was approximately 66 days. There are no dividends or coupon payments owing on the securities lent. Cash received as collateral on securities lending transactions is reported as an asset of the System with a corresponding liability.

As of June 30, 2017, the fair value of securities on loan was \$108,858. The total cash and noncash collateral held by the System's custodian to secure these securities on loan was valued at \$106,290 (all cash collateral).

M. Material and Supplies

Material and supplies inventories are valued at cost, which approximates market, using the average-cost method.

**EAST BAY MUNICIPAL UTILITY DISTRICT
NOTES TO BASIC FINANCIAL STATEMENTS
FOR THE YEARS ENDED JUNE 30, 2017 AND 2016
(Dollars in Thousands)**

NOTE 1 - SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES (Continued)

N. Compensated Absences

Compensated absences as of June 30, 2017, are included on the balance sheet in accounts payable and accrued expenses. In previous years, trends have shown that the District employees utilize the accruals annually, therefore, amounts payable are accrued and reported as a current liability on the financial statements.

The changes in compensated absences were as follows:

	Water System		Wastewater System		Total	
	June 30, 2017	June 30, 2016	June 30, 2017	June 30, 2016	June 30, 2017	June 30, 2016
Beginning Balance	\$27,598	\$26,424	\$4,291	\$4,178	\$31,889	\$30,602
Additions	26,726	27,140	4,414	4,669	31,140	31,809
Payments	<u>(27,779)</u>	<u>(25,966)</u>	<u>(4,575)</u>	<u>(4,556)</u>	<u>(32,354)</u>	<u>(30,522)</u>
Ending Balance	<u>\$26,545</u>	<u>\$27,598</u>	<u>\$4,130</u>	<u>\$4,291</u>	<u>\$30,675</u>	<u>\$31,889</u>

O. Revenue

Water billings include charges for water flow, elevation, and a monthly meter charge. Customer water meters are read on a cyclical basis throughout a monthly or bimonthly period. Bills are rendered and revenue is recognized in the period that meters are read.

Wastewater treatment billings are a combination of flow, strength charges, and a monthly service charge. Customer bills are rendered on a cyclical basis throughout a monthly or bimonthly period, and revenue is recognized in the period in which bills are rendered.

Wet weather facilities charges are designed to finance the operating and capital costs related to wet weather sewage flows and are billed annually on the property tax bill.

P. Interest Rate Swap

The District enters into interest rate swap agreements to modify interest rates on some outstanding debt. The net interest is recorded in the financial statements annually.

In June 2008, GASB issued Statement No. 53, Accounting and Financial Reporting for Derivative Instruments (GASB 53). The statement specifically requires governments to measure and report most derivative instruments at fair value in their financial statements that are prepared using the economic resources measurement focus and the accrual basis of accounting. The requirement of reporting the derivative instruments at fair value on the face of the basic financial statements gives the users of those statements a clearer look into the risks their governments are sometimes exposed to when they enter into these transactions and how those risks are managed. The statement also addresses hedge accounting requirements and improves disclosures, providing a summary of the government's derivative instrument activity, its objectives for entering into derivative instruments, and their significant terms and risks. The District implemented GASB 53 in fiscal 2010.

**EAST BAY MUNICIPAL UTILITY DISTRICT
NOTES TO BASIC FINANCIAL STATEMENTS
FOR THE YEARS ENDED JUNE 30, 2017 AND 2016
(Dollars in Thousands)**

NOTE 1 - SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES (Continued)

Q. Deferred Outflows/Inflows of Resources

In addition to assets, the balance sheet will sometimes report a separate section for deferred outflows of resources. This separate financial statement element, deferred outflows of resources, represents a consumption of net position or fund balance that applies to a future period(s) and so will not be recognized as an outflow of resources (expense/expenditure) until then.

In addition to liabilities, the balance sheet will sometimes report a separate section for deferred inflows of resources. This separate financial statement element, deferred inflows of resources, represents an acquisition of net position or fund balance that applies to a future period(s) and so will not be recognized as an inflow of resources (revenue) until that time.

R. Implementation of Governmental Accounting Standards Board (GASB) Pronouncements

GASB Statement No. 74 – The objective of this Statement is to improve the usefulness of information about postemployment benefits other than pensions (other postemployment benefits or OPEB) included in the general purpose external financial reports of state and local governmental OPEB plans for making decisions and assessing accountability. This Statement results from a comprehensive review of the effectiveness of existing standards of accounting and financial reporting for all postemployment benefits (pensions and OPEB) with regard to providing decision-useful information, supporting assessments of accountability and interperiod equity, and creating additional transparency. This statement required additional footnote disclosures as noted in Note 8G and additional tables in the required supplemental information.

GASB Statement No. 82 - The objective of this Statement is to address certain issues that have been raised with respect to Statements No. 67, Financial Reporting for Pension Plans, No. 68, Accounting and Financial Reporting for Pensions, and No. 73, Accounting and Financial Reporting for Pensions and Related Assets That Are Not within the Scope of GASB Statement 68, and Amendments to Certain Provisions of GASB Statements 67 and 68. Specifically, this Statement addresses issues regarding (1) the presentation of payroll-related measures in required supplementary information, (2) the selection of assumptions and the treatment of deviations from the guidance in an Actuarial Standard of Practice for financial reporting purposes, and (3) the classification of payments made by employers to satisfy employee (plan member) contribution requirements. This Statement had no effect on the financial statements.

S. Fair Value Measurements

Fair value is defined as the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date. The District categorizes its fair value measurements within the fair value hierarchy established by generally accepted accounting principles. The fair value hierarchy categorizes the inputs to valuation techniques used to measure fair value into three levels based on the extent to which inputs used in measuring fair value are observable in the market.

Level 1 inputs are quoted prices (unadjusted) in active markets for identical assets or liabilities.

Level 2 inputs are inputs – other than quoted prices included within level 1 – that are observable for an asset or liability, either directly or indirectly.

**EAST BAY MUNICIPAL UTILITY DISTRICT
NOTES TO BASIC FINANCIAL STATEMENTS
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(Dollars in Thousands)**

NOTE 1 - SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES (Continued)

Level 3 inputs are unobservable inputs for an asset or liability.

If the fair value of an asset or liability is measured using inputs from more than one level of the fair value hierarchy, the measurement is considered to be based on the lowest priority level input that is significant to the entire measurement.

NOTE 2 - CASH AND INVESTMENTS

A. Classification

Reconciliations of cash and investments reported on the financial statements as of June 30, 2017, are as follows:

<i>District Enterprise Funds:</i>	Water System	Wastewater System	Total
Cash and investments included in current assets	\$519,136	\$100,878	\$620,014
Cash and investments included in restricted investments	47,784	18	47,802
Total District cash and investments	566,920	100,896	667,816
Less investments	(342,054)	(56,705)	(398,759)
Cash and cash equivalents	\$224,866	\$44,191	\$269,057
<i>System Pension Trust Funds:</i>	Pension Plan Benefits	Post-employment Healthcare Benefits	Total
Cash and cash equivalents	\$48,032	\$956	\$48,988
Invested securities lending collateral	106,733	2,125	108,858
Retirement system investments	1,533,453	30,525	1,563,978
Total System cash and investments	\$1,688,218	\$33,606	\$1,721,824

B. District Enterprise Fund Investments Authorized by the California Government Code and the District's Investment Policy

The District's Investment Policy and the California Government Code allow the District to invest in the following, provided the credit ratings of the issuers are acceptable to the District; and approved percentages and maturities are not exceeded. The table below also identifies certain provisions of the California Government Code, or the District's Investment Policy where the District's Investment Policy is more restrictive and provides information as to the limitations as they relate to interest rate risk, credit risk and concentration risk.

**EAST BAY MUNICIPAL UTILITY DISTRICT
NOTES TO BASIC FINANCIAL STATEMENTS
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(Dollars in Thousands)**

NOTE 2 - CASH AND INVESTMENTS (Continued)

Authorized Investment Type	Maximum Maturity	Minimum Credit Quality	Maximum in Portfolio	Maximum Investment in One Issuer/Func
U.S. Treasury Bonds, Notes and Bills	5 Years	N/A	up to 100%	N/A
U.S. Government Agency and U.S. Government-Sponsored Enterprise Obligation	5 Years	N/A	up to 100% \$65,000	40% in each Agency
State of California Local Agency Investment Fund (LAIF Pool)	N/A	N/A	per account	N/A
California Asset Management Program (CAMP)	N/A	AAAm	20%	N/A
Money Market Mutual Funds	N/A	AAAm	20%	5%
Certificates of Time Deposit	1 Year	AA-	20%	\$250
Negotiable Certificates of Deposit	5 Years	AA-	20%	\$250
Commercial Paper	270 Days	A-1+, P1 or F1+	20%	10%
Medium Term Corporate Notes	5 Years	AA- and A	30%	10%
Repurchase Agreements	270 Days	N/A	20%	N/A
Municipal Bonds	5 Years	AA- and A	40%	20%

The District does not enter into reverse repurchase agreements.

C. District Enterprise Fund Investments Authorized by Debt Agreements

The District must maintain required amounts of cash and investments with trustees or fiscal agents under the terms of certain debt issues. These funds are unexpended bond proceeds or are pledged reserves to be used if the District fails to meet its obligations under these debt issues. The California Government Code requires these funds to be invested in accordance with District resolutions, bond indentures or State statutes. The table below identifies the investment types that are authorized for investments held by fiscal agents. The table also identifies certain provisions of these debt agreements:

Authorized Investment Type	Minimum Credit Quality
Repurchase Agreements	Top Four Short Term Rating Category
U.S. Treasury Bonds, Notes and Bills	N/A
U.S. Government Agency and U.S. Government-Sponsored Enterprise Obligation	N/A
State Obligations	Not lower than the District's bond rating
Commercial Paper	Top Rating Category
Negotiable Certificates of Deposit	FDIC insured or collateralised
Time Certificates of Deposits - Banks or Savings and Loans	FDIC insured or collateralised
Corporate Notes (up to 3 years)	Top Short-Term Rating Category
Corporate Bonds (longer than 3 years)	Not lower than District's bond rating
Variable Rate Obligations	Top Short-Term Rating Category
Cash Sweep Agreements	Top Rating Category
Guaranteed Investment Contract	Not lower than District's bond rating
Shares of Beneficial Interest	Top Rating Category

**EAST BAY MUNICIPAL UTILITY DISTRICT
NOTES TO BASIC FINANCIAL STATEMENTS
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NOTE 2 - CASH AND INVESTMENTS (Continued)

D. Employees Retirement System Authorized Investment Strategy

The System's investment policies authorize the System to invest in financial instruments in three broad investment categories: equity, fixed income, and real estate. These financial instruments can include, but are not limited to, corporate bonds, commercial paper, U.S. government securities, common and preferred stock, real estate investment trusts, and mutual funds. Fixed income investments may include futures and options contracts in order to provide added flexibility in managing the fixed income portfolio. The following is a summary of the System investment policy adopted by the System with Resolution No. 6807.

The Retirement Board is authorized to designate multiple investment managers to manage the assets under their supervision subject to the laws of the State of California and the Investment Guidelines established by the Retirement Board. Allocation of assets to the investment managers are determined by the Retirement Board to accommodate changing conditions and laws. The long-range asset allocation goal is as follows:

US Equity	40%
Non-US Equity	15%
Core Fixed-Income	10%
Non-Core Fixed Income	10%
Covered Calls	20%
Real Estate	5%

The composite asset allocation goal is pursued by the System on a long-term basis and revised if significant changes occur within the economic and/or capital market environment. Progress toward the goal is reviewed at least annually.

The Director of Finance is authorized to transfer assets from any asset class which varies the long-term asset allocation goal by more than 3% at the end of two or more consecutive quarters, allocating the excess assets to a manager or group of managers with the exception of real estate managers. The Director of Finance is further authorized to withdraw assets from assigned managers as necessary to efficiently meet operating needs.

The equity and fixed income asset allocations may vary by up to $\pm 5\%$ from the long-range asset allocation goals.

The core fixed income target allocation (10% of the total portfolio) will primarily consist of U.S. denominated fixed income securities. Individual managers may invest up to 20% of their assets in international fixed income securities.

The non-core fixed income target allocation (10% of the total portfolio) will primarily consist of U.S. denominated fixed income securities. Individual managers may invest up to 35% of their assets in international fixed income securities. It is expected that this allocation may have a material allocation to below investment grade securities.

**EAST BAY MUNICIPAL UTILITY DISTRICT
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NOTE 2 - CASH AND INVESTMENTS (Continued)

The domestic equity allocation target (40% of the total portfolio) will consist of approximately 37% in large cap market related growth and value (average risk) securities, 3% in small capitalized securities, and 20% in international securities. The international equity allocation target will consist of approximately 17% international equities and 3% emerging markets. It is expected this allocation will allow for exposure to mid cap securities based on tactical decisions by the Retirement Fund's large cap and small cap domestic equity managers.

The covered calls target allocation (20% of the total portfolio) may consist of a combination of Chicago Board Options Exchange S&P 500 BuyWrite Index (the "BXM Index") replication strategy and/or active non-replication strategies and their underlying domestic equity portfolios.

The international equity target allocation (15% of the total portfolio) will consist of approximately 12% in international equities and 3% in emerging markets equities.

The real estate target allocation (5% of the total portfolio) will consist of either equity (ownership) and/or fixed income participation in commercial, industrial, or residential properties. Investments may include interests in mortgages pools secured by loans of underlying properties.

The allocation goal recognizes that at any time equity and fixed income managers may have transactional cash on hand and the District will maintain enough cash as working capital to effectively meet cash flow demands on the system. However, there is no specific allocation for cash as all investable cash is allocated to specific investment disciplines.

Holding of securities issued by the United States Government or any of its agencies need not be diversified. Securities of any one issuer with maturities of more than one year, other than the United States Government or any of its agencies, shall not exceed 5% of the value of the total portfolio. Securities of any one issuer of foreign government issues shall not exceed 10% of the value of the total portfolio at the time of purchase. Fixed income managers have the authority to make international investments, not to exceed 20% of their total portfolio.

The use of futures and options in the fixed income accounts may be used as part of their portfolio management strategy and will be incidental to their securities trading activities. The resulting aggregate risk profile (volatility) of the portfolio will not be different from that permissible by using securities only.

Short (sold) options positions will generally be hedged, either with current portfolio security holding, other options or futures options. Mortgage derivatives with significant short option characteristics will not exceed 5% of the portfolio, and will generally be a) offset by position in other mortgage derivatives, or b) offset by other portfolio positions.

No derivatives will be executed which will increase the value at risk of the portfolio by more than 25 basis points of the portfolio's market value.

Structured notes with significant short options positions or increasing leverage will not be purchased, and in no case will structured notes exceed 5% of portfolio value. Structured notes issued by the U.S. Government (treasuries and agencies) will be considered allowable investments, and are restricted to 25%.

**EAST BAY MUNICIPAL UTILITY DISTRICT
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NOTE 2 - CASH AND INVESTMENTS (Continued)

Fixed income managers are authorized to use futures and options contracts to supplement their investment capabilities to provide flexibility in managing the fixed income portfolios and reduce the cost of implementing strategies to respond to changing market conditions without incurring the higher transaction costs associated with buying and selling specific securities. These transactions are authorized to enable the manager to reduce the exposure of the portfolio to interest rate changes by reducing or increasing the duration of the portfolio without selling any of the actual holding.

No more than 5% of the portfolio will be invested in original futures margin and options premiums, exclusive of any in-the-money portion of the premiums.

Each equity portfolio shall be diversified. When fully invested in equities or at its normal level of investment, a minimum of 20 securities should be held. At no time may a single equity investment exceed 5% of the value of the total retirement fund.

Each international equity portfolio shall be diversified. When fully invested in international equities or at its normal level of investment, a minimum of 20 securities should be held. At no time may a single international equity investment exceed 5% of the value of the total retirement fund.

E. Fair Value Hierarchy

The District categorizes its fair value measurements within the fair value hierarchy established by generally accepted accounting principles. The hierarchy is based on the valuation inputs used to measure fair value of the assets. Level 1 inputs are quoted prices in an active market for identical assets; Level 2 inputs are significant other observable inputs; and Level 3 inputs are significant unobservable inputs.

The following is a summary of the fair value hierarchy of the fair value of investments of the District as of June 30, 2017:

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NOTE 2 - CASH AND INVESTMENTS (Continued)

District Enterprise Funds:

Investment Type	Level 2	Total
Investments by Fair Value Level:		
U.S. Government-Sponsored Enterprise Agencies:		
Non-callable	\$67,945	\$67,945
Callable	311,351	311,351
Corporate Securities	3,515	3,515
Municipal Bonds	15,947	15,947
Total Investments at Fair Value	398,758	398,758
Investments Measured at Net Asset Value Per Share:		
California Asset Management Program		155,098
Investments Measured at Amortized Cost:		
California Local Agency Investment Fund		60,373
Mutual Funds (U.S. Securities)		43,285
Total Investments		657,514
<i>Cash in banks</i>		10,302
Total District Cash and Investments		\$667,816

U.S. Government-Sponsored Enterprise Agency securities totaling \$379,296, Corporate securities totaling \$3,515, and Municipal Bonds totaling \$15,947, classified in Level 2 of the fair value hierarchy, are valued using matrix pricing techniques maintained by various pricing vendors. Matrix pricing is used to value securities based on the securities' relationship to benchmark quoted prices.

**EAST BAY MUNICIPAL UTILITY DISTRICT
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NOTE 2 - CASH AND INVESTMENTS (Continued)

System Pension Trust Fund:

Investment Type	Level 1	Level 2	Level 3	Total
Investments by Fair Value:				
Asset Backed Securities		\$15,044		\$15,044
Equity Securities	\$949,381	503	\$962	950,846
Collateralized Bonds		410		410
Commercial Mortgage - Backed Securities		7,828		7,828
Corporate Bonds		79,036		79,036
Government Agencies		11,503		11,503
Government Bonds		19,738		19,738
Government Mortgage - Backed Securities		26,899		26,899
Government Issued				
Commercial Mortgage - Backed Securities		202		202
Non-Government Backed				
Commercial Mortgage Obligation		914		914
Index Linked Government Bonds		8,605		8,605
Municipal Bonds		2,135		2,135
Real Estate			34,674	34,674
Other Fixed Income		14,495	2	14,497
Total Investments at Fair Value	<u>\$949,381</u>	<u>\$187,312</u>	<u>\$35,638</u>	<u>1,172,331</u>
Investments Measured at Net Asset Value:				
Mutual Funds				391,647
Investments Measured at Amortized Cost:				
California Local Agency Investment Fund				3,263
Invested securities lending collateral				108,858
<i>Cash in banks</i>				<u>45,725</u>
Total District Cash and Investments				<u>\$1,721,824</u>

Investments classified in Level 1 of the fair value hierarchy, valued at \$949,381, are valued using quoted prices in active markets. \$187,312 of investments classified in Level 2 of the fair value hierarchy, are valued using matrix pricing techniques maintained by various pricing vendors. Matrix pricing is used to value securities based on the securities' relationship to benchmark quoted prices. Investments totaling \$35,638 classified in Level 3 of the fair value hierarchy are valued using appraisals and estimates by investment managers. Fair value is defined as the quoted market value on the last trading day of the period. These prices are obtained from various pricing sources by our custodian bank.

F. Interest Rate Risk

Interest rate risk is the risk that changes in market interest rates will adversely affect the market value of an investment. Normally, the longer the maturity of an investment, the greater the sensitivity of its market value to changes in market interest rates. The District generally manages its interest rate risk by holding investments to maturity.

Information about the sensitivity of the market values of the District's and System's investments (including investments held by bond trustees) to market interest rate fluctuations is provided by the following table that shows the distribution of the District's investments by maturity or earliest call date.

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NOTE 2 - CASH AND INVESTMENTS (Continued)

District Enterprise Funds:

Investment Type	12 Months or less	13 to 24 Months	25 to 60 Months	Total
U.S. Government-Sponsored Enterprise Agencies				
Non-callable	\$23,931	\$32,302	\$11,712	\$67,945
Callable	12,507	90,282	208,562	311,351
Corporate Securities	3,014	501		3,515
Municipal Bonds	6,505	8,201	1,241	15,947
Mutual Funds (U.S. Securities)	43,285			43,285
California Asset Management Program	155,098			155,098
California Local Agency Investment Fund	60,373			60,373
Total Investments	\$304,713	\$131,286	\$221,515	657,514
<i>Cash in banks</i>				10,302
Total District Cash and Investments				\$667,816

System Pension Trust Fund:

Investment Type	Less than 12 Months	12 to 72 Months	72 to 120 Months	More than 120 Months	Maturity not Determined	Total
Asset Backed Securities		\$10,005	\$2,950	\$2,089		\$15,044
Equity Securities	\$950,846					950,846
Collateralized Bonds			410			410
Commercial Mortgage						
- Backed Securities			130	7,698		7,828
Corporate Bonds	15,867	38,417	13,548	11,204		79,036
Government Agencies	219	5,484	5,256	544		11,503
Government Bonds	1,186	7,584	6,758	4,210		19,738
Government Mortgage						
- Backed Securities			594	26,305		26,899
Government Issued Commercial Mortgage						
- Backed Securities	82	120				202
Non-Government Backed						
Collateralized Mortgage Obligation					\$914	914
Index Linked Government Bonds		1,835	5,417	1,353		8,605
Municipal Bonds		426		1,709		2,135
Mutual Funds					391,647	391,647
Real Estate					34,674	34,674
Other Fixed Income	136	14,361				14,497
Total System Investments	\$968,336	\$78,232	\$35,063	\$55,112	\$427,235	\$1,563,978

**EAST BAY MUNICIPAL UTILITY DISTRICT
NOTES TO BASIC FINANCIAL STATEMENTS
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NOTE 2 - CASH AND INVESTMENTS (Continued)

The District and System are participants in the Local Agency Investment Fund (LAIF) that is regulated by California Government Code Section 16429 under the oversight of the Treasurer of the State of California. They report their investment in LAIF at the market value amount provided by LAIF, which is the same as the value of the pool share. The balance available for withdrawal is based on the accounting records maintained by LAIF, which are recorded on an amortized cost basis. Included in LAIF's investment portfolio are collateralized mortgage obligations, mortgage-backed securities, other asset-backed securities, loans to certain state funds, and floating rate securities issued by federal agencies, government-sponsored enterprises, United States Treasury Notes and Bills, and corporations. On June 30, 2017, these investments matured in an average of 194 days.

The System's investments include the following investments that are highly sensitive to interest rate fluctuations to a greater degree than already indicated above:

Highly Sensitive Investments	Fair Value at Year End
Government Mortgage - Backed Securities	\$26,899
Commercial Mortgage - Backed Securities	7,828
Government Issued Commercial Mortgage - Backed Securities	202

G. Credit Risk

Credit risk is the risk that an issuer of an investment will not fulfill its obligation to the holder of the investment. This is measured by the assignment of a rating by a nationally recognized statistical credit rating organization. Presented below is the actual rating as of June 30, 2017, for each investment type as provided by Moody's.

District Enterprise Funds:

Investment Type	Aaa	Aa2	Aa3	Total
U.S. Government-Sponsored				
Non-Callable	\$67,945			\$67,945
Callable	311,351			311,351
Corporate Securities	3,515			3,515
Municipal Bonds	250	\$2,923	\$8,217	11,390
Mutual Funds (U.S. Securities)	43,285			43,285
Totals	\$426,346	\$2,923	\$8,217	\$437,486
<i>Not rated:</i>				
Municipal Bonds				\$4,557
California Local Agency Investment Fund				60,373
California Asset Management Program				155,098
Cash in Banks				10,302
Total District Cash and Investments				\$667,816

**EAST BAY MUNICIPAL UTILITY DISTRICT
NOTES TO BASIC FINANCIAL STATEMENTS
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NOTE 2 - CASH AND INVESTMENTS (Continued)

System Pension Trust Fund:

Investment Type	Aaa	Aa	A	Baa	Ba	B	U.S. Government Guaranteed	Not Rated	Total
Asset Backed Securities	\$9,885	\$490	\$445	\$629	\$225			\$3,370	\$15,044
Equity Securities								950,846	950,846
Collateralized Bonds	410								410
Commercial Mortgage - Backed Securities	4,101							3,727	7,828
Corporate Bonds	1,252	13,487	38,059	23,791	1,306	\$20		1,121	79,036
Government Agencies	10,176			1,108			\$219		11,503
Government Bonds	18,133		646				959		19,738
Government Mortgage - Backed Securities			369				26,064	466	26,899
Government Issued Commercial Mortgage - Backed Securities							202		202
Index Linked Government Bonds	8,605								8,605
Municipal Bonds		2,135							2,135
Non-Government Backed Commercial Mortgage Obligation	366	319		153				76	914
Mutual Funds								391,647	391,647
Real Estate								34,674	34,674
Other Fixed Income								14,497	14,497
Total System Investments	<u>\$52,928</u>	<u>\$16,431</u>	<u>\$39,519</u>	<u>\$25,681</u>	<u>\$1,531</u>	<u>\$20</u>	<u>\$27,444</u>	<u>\$1,400,424</u>	<u>\$1,563,978</u>

H. Concentration Risk

Significant District investments in the securities of any individual issuers, other than U. S. Treasury securities, LAIF, and mutual funds, are set forth below:

District Enterprise Funds:

Reporting Unit	Issuer	Investment Type	Reported Amount
District-Wide	FHLMC	Federal Agency Securities	\$178,900
	FNMA	Federal Agency Securities	93,317
	FHLB	Federal Agency Securities	85,512
Major Funds: Water System	FHLMC	Federal Agency Securities	155,891
	FHLB	Federal Agency Securities	77,032
	FNMA	Federal Agency Securities	73,128
Wastewater System	FHLMC	Federal Agency Securities	23,009
	FNMA	Federal Agency Securities	20,189
	FHLB	Federal Agency Securities	8,480

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NOTE 2 - CASH AND INVESTMENTS (Continued)

System Pension Trust Fund:

As of June 30, 2017, the District did not have investments in any one organization exceeding 5% of the System's investments.

The District held demand deposits (overdrafts) amounting to \$2,340 and \$8,627 on behalf of the System as of June 30, 2017 and 2016, respectively. The financial institution which holds these deposits is required by state law to maintain collateral pools against all public deposits they hold.

I. Foreign Currency Risk

System Pension Trust Fund:

Foreign currency risk is the risk that changes in foreign exchange rates will adversely affect the fair values of an investment or deposit. Presented below in US dollars is the fair market value of the System's foreign investments at June 30, 2017:

<u>Foreign Currency</u>	<u>Equity Securities Investment Type</u>
Euro	\$73,391
British Pound Sterling	30,432
Japanese Yen	23,772
Hong Kong Dollar	14,874
South Korean Won	11,768
Swiss Franc	10,324
Canadian Dollar	7,427
Danish Krone	3,579
Singapore Dollar	2,697
Australian Dollar	2,625
Norwegian Krone	2,100
Indonesian Rupiah	1,845
Swedish Krona	1,338
Thai Baht	1,322
Mexican Peso	1,015
Brazilian Real	701
New Israeli Shekel	85
Total	<u><u>\$189,295</u></u>

The Fund's investment policy permits it to invest 20% of total investment on foreign currency-denominated investments. The Fund's current position is 12.1%.

**EAST BAY MUNICIPAL UTILITY DISTRICT
NOTES TO BASIC FINANCIAL STATEMENTS
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NOTE 2 - CASH AND INVESTMENTS (Continued)

J. Custodial Credit Risk

Custodial credit risk for *cash on deposits* is the risk that, in the event of the failure of a depository financial institution, a government will not be able to recover its deposits or will not be able to recover collateral securities that are in the possession of an outside party. The custodial credit risk for *investments* is the risk that, in the event of the failure of the counterparty (e.g., broker-dealer) to a transaction, the District or System will not be able to recover the value of its investment or collateral securities that are in the possession of another party.

California Law requires banks and savings and loan institutions to pledge government securities with a market value of 110% of the District's cash on deposit, or first trust deed mortgage notes with a market value of 150% of the deposit, as collateral for these deposits. Under California Law this collateral is held in a separate investment pool by another institution in the District's name and places the District ahead of general creditors of the institution.

The District and System invest in individual investments and in investment pools. Individual investments are evidenced by specific identifiable *securities instruments*, or by an electronic entry registering the owner in the records of the institution issuing the security, called the *book entry* system. In order to increase security, the District and System employ the Trust Department of a bank or trustee as the custodian of certain District and System managed investments, regardless of their form.

As of June 30, 2017 and 2016, the System's brokers/dealers held \$0 in cash exposed to custodial credit risk.

K. Joint Powers Authority

DSRSD/EBMUD Regional Water Authority - On June 28, 1995, the Dublin San Ramon Service District (DSRSD) and East Bay Municipal Utility District (District) entered into a Joint Powers Agreement (JPA) and established the DSRSD/EBMUD Recycled Water Authority (DERWA) with the purpose of creating a recycled water program in the San Ramon and Livermore-Amador Valleys. The JPA governing body is not substantially the same as the District and its independent Board consists of two directors each from the DSRSD and District. The JPA books and records are being maintained separately from DSRSD and the District. The DSRSD and District made member contributions to fund the JPA start-up and continue to fund capital projects at the request of the JPA on an as needed basis. Although DERWA has a significant relationship with the District, DERWA does not provide services solely to the District, and therefore is not considered a component unit of the District.

**EAST BAY MUNICIPAL UTILITY DISTRICT
NOTES TO BASIC FINANCIAL STATEMENTS
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NOTE 2 - CASH AND INVESTMENTS (Continued)

Freeport Regional Water Authority - The Freeport Regional Water Project (FRWP) is a regional water supply project undertaken by the District in partnership with the Sacramento County Water Agency (SCWA). In February 2002, with the support of the United States Bureau of Reclamation, the District and SCWA formed the Freeport Regional Water Authority (FRWA) under a joint powers agreement to develop the FRWP. The FRWP provides the permanent infrastructure to allow the District to receive water deliveries pursuant to the Long-Term Renewal Central Valley Project Contract at a new point of diversion along the Sacramento River. In addition to providing the District up to 100 MGD of supplemental water in dry years, the FRWP can provide up to 85 MGD to SCWA in all years. The District’s share of the facilities is recorded as Investment in JPA and is presented on the balance sheet. To increase the District’s reserve of water supply due to the recent drought, the District activated the pumping of water from the Sacramento River via the Freeport facility during Fiscal Year 2015.

NOTE 3 – CAPITAL ASSETS

A. Summary

The District capitalizes all assets with a historical cost of at least \$5 and a useful life of at least three years. Contributed capital assets are valued at their estimated acquisition value on the date contributed.

The purpose of depreciation is to spread the cost of capital assets equitably among all customers over the life of these assets, so that each customer’s bill includes a pro rata share of the cost of these assets. The amount charged to depreciation expense each year represents that year’s pro rata share of depreciable capital assets.

Depreciation of all capital assets in service, excluding land, is charged as an expense against operations each year and the total amount of depreciation taken over the years, called accumulated depreciation, is reported on the balance sheet as a reduction in the book value of the capital assets.

Capital assets are depreciated using the straight line method of depreciation, which means the cost of the asset is divided by its expected useful life in years and the result is charged to expense each year until the asset is fully depreciated. The District has assigned the useful lives listed below to capital assets:

Utility plant:	<u>Years</u>
Source of supply	25-100
Raw water transmission and storage	20-100
Interception and outfall	60-75
Pumping	25-75
Treatment	20-75
Distribution	25-75
Power Generation	25-75
Equipment	5-20
Plant Structures	25-75
Other	5-40

**EAST BAY MUNICIPAL UTILITY DISTRICT
NOTES TO BASIC FINANCIAL STATEMENTS
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NOTE 3 – CAPITAL ASSETS (Continued)

B. Additions and Retirements

Capital assets activity for all business-type activities for the year ended June 30, 2017, was as follows:

	Balance at June 30, 2016	Additions and Transfers, net	Retirements and Transfers, net	Balance at June 30, 2017
Water System:				
Capital assets, not being depreciated:				
Land	\$55,704	\$5,875	(\$114)	\$61,465
Rights-of-way	3,029	14		3,043
Construction in progress - Land/Rights of Way	813	5,255	(5,890)	178
Construction in progress	302,160	259,995	(156,976)	405,179
Total capital assets, not being depreciated	<u>361,706</u>	<u>271,139</u>	<u>(162,980)</u>	<u>469,865</u>
Capital assets, being depreciated:				
Buildings and improvements	240,086	2,008		242,094
System and improvements	4,792,810	142,242	(17,123)	4,917,929
Machinery and equipment	98,216	12,726	(6,426)	104,516
Total capital assets, being depreciated:	<u>5,131,112</u>	<u>156,976</u>	<u>(23,549)</u>	<u>5,264,539</u>
Less accumulated depreciation for:				
Buildings and improvements	(101,173)	(5,583)		(106,756)
System and improvements	(1,529,384)	(93,864)	847	(1,622,401)
Machinery and equipment	(66,101)	(4,449)	5,796	(64,754)
Total accumulated depreciation	<u>(1,696,658)</u>	<u>(103,896)</u>	<u>6,643</u>	<u>(1,793,911)</u>
Total capital assets, being depreciated, net	<u>3,434,454</u>	<u>53,080</u>	<u>(16,906)</u>	<u>3,470,628</u>
Water System capital assets, net	<u>\$3,796,160</u>	<u>\$324,219</u>	<u>(\$179,886)</u>	<u>\$3,940,493</u>
Wastewater System:				
Capital assets, not being depreciated:				
Land	\$21,000	\$94		\$21,094
Rights-of-way	191			191
Construction in progress - Land/Rights of Way	259	146	(\$94)	311
Construction in progress	63,146	41,588	(47,810)	56,924
Total capital assets, not being depreciated	<u>84,596</u>	<u>41,828</u>	<u>(47,904)</u>	<u>78,520</u>
Capital assets, being depreciated:				
Buildings and improvements	76,481	8,767		85,248
System and improvements	938,508	38,316	(1,867)	974,957
Machinery and equipment	12,600	727	(37)	13,290
Total capital assets, being depreciated	<u>1,027,589</u>	<u>47,810</u>	<u>(1,904)</u>	<u>1,073,495</u>
Less accumulated depreciation for:				
Buildings and improvements	(36,770)	(1,423)		(38,193)
System and improvements	(374,142)	(20,420)		(394,562)
Machinery and equipment	(7,731)	(823)	38	(8,516)
Total accumulated depreciation	<u>(418,643)</u>	<u>(22,666)</u>	<u>38</u>	<u>(441,271)</u>
Total capital assets, being depreciated, net	<u>608,946</u>	<u>25,144</u>	<u>(1,866)</u>	<u>632,224</u>
Wastewater System capital assets, net	<u>\$693,542</u>	<u>\$66,972</u>	<u>(\$49,770)</u>	<u>\$710,744</u>
Business-type activities capital assets, net	<u>\$4,489,702</u>	<u>\$391,191</u>	<u>(\$229,656)</u>	<u>\$4,651,237</u>

**EAST BAY MUNICIPAL UTILITY DISTRICT
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NOTE 3 – CAPITAL ASSETS (Continued)

C. Construction in Progress

Construction in Progress in fiscal 2016-2017 comprises:

	<u>Expended to Date</u>
<i>Water System:</i>	
Pumping Plant Rehabilitation	\$49,610
Treatment Plant Upgrades	47,236
Pipeline Infrastruct Renewals	44,253
Reservoir Rehab/Maintenance	34,142
Summit Pressure Zone Improve	28,153
Dam Seismic Upgrades	23,531
Open Cut Reservoir Rehab	16,630
Addl Supplemental Supply Projs	14,566
WTTIP WTP Improvements	11,174
Raw Water Studies and Improves	9,479
SRV Recycled Water Program	8,322
Water Conservation Project	8,101
Pipeline Infra Renew Historic	7,631
Large Diameter Pipelines	7,205
Reservoir Tower Modifications	6,091
Pipeline Relocations	5,850
Faria PZI (formerly Purdue)	5,608
Service Lateral Replacements	5,340
West of Hills Master Plan	4,972
Water Capital Costs Misc.	3,960
Other Construction Projects	63,503
	\$405,357
<i>Wastewater System:</i>	
Treatment Plant Infrastructure	\$10,436
Digester Upgrade	8,213
Odor Control Improvements	7,389
Routine Cap Equip Replacement	5,327
Resource Recovery Project	4,558
Infiltration/Inflow Contrl Prj	4,325
DCS Upgrades	4,303
PS Q FM Dual-Mode Operation	3,075
3rd St Sewer Interceptor Rehab	2,212
MWWTP Master Plan	1,670
MWWTP Pwr Dist Sys Upgrade	1,083
Treatment Plant Infra Ph 2	772
Concrete Rehab at SD1	724
Interceptor Corrosion Prevent	635
Outfall Investigation Project	622
Other Construction Projects	1,891
	\$57,235
Total District Construction in Progress	\$462,592

At June 30, 2017, the District's remaining current major project commitments are estimated to be \$78,785 for the Water System and \$5,454 for the Wastewater System.

**EAST BAY MUNICIPAL UTILITY DISTRICT
NOTES TO BASIC FINANCIAL STATEMENTS
FOR THE YEARS ENDED JUNE 30, 2017 AND 2016
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NOTE 4 – ACCOUNTS PAYABLE & ACCRUED EXPENSES

Accounts payable and accrued expenses at June 30, 2017 and 2016 consist of:

	Water System		Wastewater System		Total	
	June 30, 2017	June 30, 2016	June 30, 2017	June 30, 2016	June 30, 2017	June 30, 2016
Accounts payable	\$19,340	\$26,241	\$4,365	\$4,792	\$23,705	\$31,033
Accrued salaries	2,360	5,185	394	825	2,754	6,010
Accrued compensated absences	26,545	27,598	4,130	4,291	30,675	31,889
Other	20,607	18,351	453	414	21,060	18,765
Total	<u>\$68,852</u>	<u>\$77,375</u>	<u>\$9,342</u>	<u>\$10,322</u>	<u>\$78,194</u>	<u>\$87,697</u>

NOTE 5 – EXTENDABLE COMMERCIAL PAPER NOTES

The District's Board of Directors has authorized the issuance of short-term indebtedness of the District in a maximum principal amount of up to the lesser of either the average of the total annual revenue for the three preceding years or 25% of the District's total outstanding bonds. Under this authority the District has established two commercial paper programs: an extendable commercial paper program and a traditional commercial paper program. The proceeds from the issuance of commercial paper under these programs are restricted as to use. Under the programs, which must be authorized by the Board of Directors every seven years by resolution subject to the right of referendum, the Water System or the Wastewater System may issue commercial paper and bank notes at prevailing interest rates for periods of not more than 270 days from the date of issuance. The programs were last authorized on April 28, 2015.

The District initially established its extendable commercial paper program in March 2009. Under the extendable commercial paper program, no liquidity support agreement with a commercial bank is needed. Instead, the District limits the term of the extendable commercial paper to 120 days, and the investor agrees to extend the maturity of their investment by 150 days at a higher interest rate in the event of a failed remarketing, giving the District sufficient time to find a replacement investor or refund the extendable commercial paper with a different form of debt to repay the investor.

As of June 30, 2017, \$0 million in Water Series and \$15.0 million in Wastewater Series extendable commercial paper notes were outstanding under this program. The Wastewater Series included the term of 61 days and an interest rate of 0.91% as of June 30, 2017, and the term of 91 days and an interest rate of 0.52% as of June 30, 2016.

The District established its current traditional commercial paper program in December 2015. As of June 30, 2017, \$359.8 million in Water Series and \$0 in Wastewater Series commercial paper notes were outstanding under this program. The Water Series commercial paper notes included the terms of 30 to 123 days and interest rates ranging from 0.78% to 0.97% as of June 30, 2017, and the terms of 35 to 98 days and interest rates ranging from 0.41% to 0.49% as of June 30, 2016.

**EAST BAY MUNICIPAL UTILITY DISTRICT
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NOTE 5 – COMMERCIAL PAPER NOTES (Continued)

To provide liquidity for the Water Series notes issued under the traditional commercial paper program, the District maintains two liquidity support facilities with commercial banks: a standby letter of credit in the amount of \$200,000,000 and a revolving credit agreement in the amount of \$160,000,000. Borrowings by the Water System for commercial paper notes and bank notes under the traditional commercial paper program cannot exceed the aggregate amount available under these agreements. Drawings under the liquidity support facilities are restricted to pay principal on maturing Water Series commercial paper notes. There were no borrowings under the liquidity support facilities as of June 30, 2017. The liquidity support facilities expire on December 1, 2020 and November 30, 2018, respectively, and are subject to extension at the request of the District upon agreement by the issuing bank.

There were no unused proceeds of commercial paper notes as of June 30, 2017. It is the District's practice to use the commercial paper programs as a portion of the District's long-term variable rate debt exposure.

NOTE 6 – LONG-TERM DEBT

A. Composition and Changes

The District generally incurs long-term debt to finance projects or purchase assets which will have useful lives equal to or greater than the related debt. The District's debt issues and transactions are summarized below and discussed in detail thereafter.

**EAST BAY MUNICIPAL UTILITY DISTRICT
NOTES TO BASIC FINANCIAL STATEMENTS
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(Dollars in Thousands)**

NOTE 6 - LONG TERM DEBT (Continued)

	Original Issue Amount	Balance June 30, 2016	Additions	Retirements	Balance June 30, 2017	Amount due within one year
<i>Water System Revenue Bonds:</i>						
Subordinated Series 2007 B						
3.75 - 5.00%, due 6/1/19	\$54,790	\$19,155		\$19,155	-	
Subordinated Series 2008 A						
.87% variable rate, due 6/1/38	322,525	105,250			\$105,250	
Subordinated Series 2010 A						
3.00 - 5.00%, due 6/1/36	192,830	183,400		176,380	7,020	\$2,540
Subordinated Series 2010 B						
5.87%, due 6/1/40	400,000	400,000			400,000	
Series 2012 A						
5.00% , due 6/1/37	191,750	191,750		110,000	81,750	
Series 2012 B						
1.00 -5.00%, due 6/1/26	358,620	278,810		29,360	249,450	34,600
Series 2013 A						
5.00%, due 6/1/21	48,670	34,200		6,135	28,065	6,465
Series 2014 A						
3.00-5.00%, due 6/1/35	128,315	128,315			128,315	
Series 2014 B						
2.00-5.00%, due 6/1/30	242,730	241,220		7,770	233,450	8,040
Series 2014 C						
5.00%, due 6/1/44	75,000	75,000			75,000	
Series 2015 A						
4.00-5.00%, due 6/1/37	429,360	429,360			429,360	
Series 2015 B						
4.00-5.00%, due 6/1/45	74,335	74,335			74,335	
Series 2015C						
4.00-5.00%, due 6/1/45	110,715	110,715			110,715	
Series 2017 A						
3.00 - 5.00%, due 6/1/45	185,355		\$185,355		185,355	
Series 2017 B						
3.00 - 5.00%, due 6/1/37	309,665		309,665		309,665	6,190
Total water long-term bonds		<u>2,271,510</u>	<u>495,020</u>	<u>348,800</u>	<u>2,417,730</u>	<u>57,835</u>

(Continued)

**EAST BAY MUNICIPAL UTILITY DISTRICT
NOTES TO BASIC FINANCIAL STATEMENTS
FOR THE YEARS ENDED JUNE 30, 2017 AND 2016
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NOTE 6 - LONG TERM DEBT (Continued)

	Original Issue Amount	Balance June 30, 2016	Additions	Retirements	Balance June 30, 2017	Amount due within one year
<i>Wastewater System General</i>						
<i>Obligation Bonds:</i>						
Series G						
5.00%, due 4/1/18	\$14,160	\$7,345		\$3,830	\$3,515	\$3,515
<i>Wastewater System Revenue Bonds:</i>						
Subordinated Series 2007 B						
3.75 - 5.00%, due 6/1/26	46,670	26,920		26,920		
Subordinated Series 2010 A						
2.00 - 5.00%, due 6/1/29	58,095	44,295		36,490	7,805	2,510
Subordinated Series 2010 B						
5.03 - 5.18%, due 6/1/40	150,000	150,000			150,000	
Series 2012 A						
5.00% , due 6/1/37	20,000	20,000			20,000	
Series 2014 A						
2.00 - 5.00%, due 6/1/31	82,150	76,310		4,270	72,040	4,470
Series 2015 A-1						
5.00%, due 6/1/37	54,805	54,805			54,805	
Series 2015 A-2						
5.00%, due 6/1/38	13,565	13,565			13,565	
Series 2015 B						
2.10 - 3.35% , due 6/1/30	2,795	2,635		160	2,475	165
Series 2017 A						
4.00 - 5.00%, due 6/1/37	69,420		\$69,420		69,420	2,890
Total wastewater long-term bonds		395,875	69,420	71,670	393,625	13,550
Total long-term bonds		2,667,385	564,440	420,470	2,811,355	71,385
<i>Water Loans:</i>						
<i>State Water Resources Control Board</i>						
2004 Upper San Leandro Reservoir Project						
2.51%, due 1/1/24	\$2,188	\$950		\$117	\$833	\$120
2008 East Bayshore, Recycled Water Project						
2.40%, due 4/1/28	20,100	13,006		948	12,058	971
Total water loans		13,956		1,065	12,891	1,091
Total long-term loans		13,956		1,065	12,891	1,091
<i>Commercial Paper (see Note 5)</i>						
Water System Commercial Paper		359,800	1,837,700	1,837,700	359,800	
Wastewater System Commercial Paper		15,000	106,500	106,500	15,000	
Total commercial paper		374,800	1,944,200	1,944,200	374,800	
Amount due within one year		(66,515)	(5,961)		(72,476)	
Add: Unamortized premium, net		184,011	124,801	22,745	286,067	
Total long-term liabilities, net		\$3,173,637	\$2,627,480	\$2,388,480	\$3,412,637	\$72,476

**EAST BAY MUNICIPAL UTILITY DISTRICT
NOTES TO BASIC FINANCIAL STATEMENTS
FOR THE YEARS ENDED JUNE 30, 2017 AND 2016
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NOTE 6 - LONG TERM DEBT (Continued)

B. Description of the District's Long-Term Debt Issues

General obligation and revenue bonds are generally callable at future dates. The general obligation bonds are repaid from property taxes levied on property within the District.

Revenue-supported debt can be authorized by the District's Board of Directors, subject to a referendum process.

The net revenues of the Water System are pledged toward the repayment of the Water Revenue Bonds and the State Water Resources Control Board Parity Loans of the Water System. The net revenues of the Wastewater System are pledged toward the repayment of the Wastewater Revenue Bonds of the Wastewater System.

The District is subject to certain revenue bond covenants on outstanding debt which require the setting of rates and charges to yield net revenues of the respective Water System or Wastewater System, as applicable, equal to at least 110% of the current annual debt service requirements for all revenue bonds and other parity obligations of the respective Water System or Wastewater System. The District has designated \$119.1 million (\$95.0 million for the Water System and \$24.1 million for the Wastewater System) of operating reserves as a rate stabilization fund, which is available to satisfy the coverage requirements for debt service in future years. There have never been any draws for this purpose.

Water Issuance During the Year

2017 Water System Revenue Bonds, Series 2017A (Green Bonds) – The District issued \$185.4 million principal amount of Series 2017A Bonds on June 22, 2017, to provide additional monies to finance and/or to reimburse to the District for certain costs of improvements to the Water System and to pay a portion of the costs of issuance in connection with the Series 2017A Bonds. The Series 2017A Bonds are special obligations of the District and are payable solely from and secured by a pledge of Subordinated Water Revenues. Principal payments commence on June 1, 2032 and are payable annually on June 1 thereafter. Interest payments are payable on June 1st and December 1st of each year, commencing December 1, 2017.

2017 Water System Revenue/Refunding Bonds, Series 2017B – The District issued \$309.7 million principal amount of Series 2017B Bonds on June 22, 2017, to provide additional monies to finance and/or to reimburse to the District for certain costs of improvements to the Water System, to refund (a) all the District's Water System Subordinated Revenue Bonds, Series 2007B maturing on June 1, 2018 and June 1, 2019, (b) a portion of the District's Water System Subordinated Revenue/Refunding Bonds, Series 2010A and (c) a portion of the District's Water System Revenue Refunding Bonds, Series 2012A, and to pay a portion of the costs of issuance in connection with the Series 2017B Bonds. The Series 2017B Bonds are special obligations of the District and are payable solely from and secured by a pledge of Subordinated Water Revenues. Principal payments commence on June 1, 2018 and are payable annually on June 1 thereafter. Interest payments are payable on June 1st and December 1st of each year, commencing December 1, 2017.

The refunding of 2007B, 2010A and 2012A Water System Revenue Bonds reduced aggregate debt service payments by approximately \$55 million. This refunding created an economic gain of \$33.9 million.

**EAST BAY MUNICIPAL UTILITY DISTRICT
NOTES TO BASIC FINANCIAL STATEMENTS
FOR THE YEARS ENDED JUNE 30, 2017 AND 2016
(Dollars in Thousands)**

NOTE 6 - LONG TERM DEBT (Continued)

Wastewater Issuance During the Year

2017 Wastewater System Revenue Bonds, Series 2017A – The District issued \$69.4 million principal amount of Series 2017A Bonds on June 14, 2017, to provide additional monies to finance and/or to reimburse the District for certain costs of improvements to the Wastewater System, to refund (a) all of the District’s Wastewater System Subordinated Revenue Refunding Bonds, Series 2007B maturing on and after June 1, 2018, and (b) a portion of the District’s Wastewater System Subordinated Revenue/Refunding Bonds, Series 2010A, and to pay the costs of issuance in connection with the Series 2017A Bonds. The Series 2017A Bonds are special obligations of the District and are payable solely from and secured by a pledge of Subordinated Water Revenues. Principal payments commence on June 1, 2018 and are payable annually on June 1 thereafter. Interest payments are payable on June 1st and December 1st of each year, commencing December 1, 2017.

The refunding of 2007B and 2010A Wastewater System Revenue Bonds reduced aggregate debt service payments by approximately \$9.2 million. This refunding created an economic gain of \$8.1 million.

C. Debt Service Requirements

Annual debt service requirements, including the swap payments discussed in F., are shown below for the above debt issues:

For the Year Ending June 30	Water System		Wastewater System		Total	
	Principal	Interest	Principal	Interest	Principal	Interest
2018	\$58,926	\$113,291	\$13,550	\$19,339	\$72,476	\$132,630
2019	61,207	110,779	10,370	18,851	71,577	129,630
2020	64,309	107,852	10,860	18,364	75,169	126,216
2021	65,996	104,769	10,955	17,875	76,951	122,644
2022	68,790	101,700	11,480	17,329	80,270	119,030
2023 - 2027	391,088	456,726	65,720	77,510	456,808	534,238
2028 - 2032	488,991	354,478	82,410	59,588	571,401	414,066
2033 - 2037	617,745	234,433	104,970	36,934	722,715	271,367
2038 - 2042	461,710	84,907	80,140	8,896	541,850	93,803
2043 - 2045	151,860	11,456	3,170	246	155,030	11,702
Totals	\$2,430,622	\$1,680,391	\$393,625	\$274,932	\$2,824,247	\$1,955,327

Interest payments on debt subject to swap agreements were calculated using the variable rates at June 30, 2017.

D. Prior-Year Defeasances

In prior years, the District defeased certain debt issues by placing proceeds of new bonds in an irrevocable trust to provide for all future debt service payments on the refunded bonds. Accordingly, the trust account assets and the liability for the defeased debt are not included in the District's financial statements. On June 30, 2017, \$355 million of the bonds outstanding are considered defeased.

**EAST BAY MUNICIPAL UTILITY DISTRICT
NOTES TO BASIC FINANCIAL STATEMENTS
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NOTE 6 - LONG TERM DEBT (Continued)

E. Variable Rate Debt

The District has a number of bond issues with variable interest rates. The Water Series 2008A Bonds are subject to purchase on the demand of the holder with seven days prior notice at a price equal to the principal plus accrued interest. The remarketing agent is authorized to use its best efforts to sell the repurchased bonds at a price equal to 100 percent of the principal amount by adjusting the interest rate. In the event that they are not sold, under Standby Bond Purchase Agreements (SBPAs) issued by banks for the above variable rate debt issues, the trustee or the remarketing agent is entitled to draw an amount sufficient to pay the purchase price of delivered bonds. The District is required to pay an annual commitment fee to the banks issuing SBPAs. Expiration dates of these SBPAs are presented below by debt issue. In addition, the remarketing agent receives an annual fee of seven basis points of the outstanding principal amount of the bonds.

Issue	Standby Purchase Agreement Terms		
	Expiration Date	Interest Rate	Interest Rate Swap
Water System Revenue Subordinated Bonds:			
Series 2008A-1	12/9/2019	Reset Weekly	See below
Series 2008A-2	7/2/2018	Reset Weekly	See below
Series 2008A-3	7/2/2018	Reset Weekly	See below
Series 2008A-4	12/9/2019	Reset Weekly	See below

F. Interest Rate Swap Agreements

The District has entered into a number of matched interest rate swap contracts with providers in which the District contracted to pay a fixed rate on the nominal amount of outstanding bonds, in exchange for a floating rate payment, set monthly on the first day of each calendar month for its LIBOR based swaps. The combination of variable rate bonds and a floating-rate swap creates synthetic fixed-rate debt for the District. The synthetic fixed rate on the bonds protects the District against increases in short-term interest rates. The terms, fair value, and credit risk of each of the swap agreements are discussed below.

Term and credit risks. The terms and credit ratings of the outstanding swaps, as of June 30, 2017, are included below. The District's swap agreements contain scheduled reductions to outstanding notional amounts that are expected to follow scheduled reductions in the associated bonds.

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NOTES TO BASIC FINANCIAL STATEMENTS
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NOTE 6 – LONG-TERM DEBT (Continued)

Related Bond Issue	Notional Amount	Effective Date	Counterparty	Counterparty Credit Ratings (Moody's/ S&P)	Issuer Pays	Issuer Receives	Maturity/ Termination Date
2008A Water System Refunding Bonds	37,240	6/2/2005	JP Morgan Chase & Co.	Aa3/A+	3.115%	62.3% of 30-day LIBOR	6/1/2038
2008A Water System Refunding Bonds	37,240	6/1/2011	Bank of America National Assoc.	A1/A+	3.115%	62.3% of 30-day LIBOR	6/1/2038
2008A Water System Refunding Bonds	16,195	6/1/2012	Merrill Lynch Capital Services	Baa1/BBB+	3.115%	62.3% of 30-day LIBOR	6/1/2038
2008A Water System Refunding Bonds	14,575	9/25/2008	The Bank of New York Mellon	Aa2/AA-	3.115%	62.3% of 30-day LIBOR	6/1/2038

The effect of these transactions is structured to result in the approximate equivalent of the District paying a fixed rate on the bonds, since the inflow of payments from the LIBOR based swaps are anticipated to approximate the outflow of payments on the variable rate bonds. Only the net difference in interest payments to the swap providers is made under the swap contracts.

Fair value. The fair value of the swaps takes into consideration the prevailing interest rate environment, the specific terms and conditions of a given transaction and any upfront payments that may have been received. The fair value was estimated using the zero-coupon discounting method. This method calculates the future payments required by the swap, assuming that the current forward rates implied by the LIBOR swap yield curve are the market's best estimate of future spot interest rates. These payments are then discounted using the spot rates implied by the current yield curve for a hypothetical zero-coupon rate bond due on the date of each future net settlement on the swaps. The fair values of each swap at June 30, 2017, are included below:

Related Bond Issuance	Fair Value	
	2017	2016
2008A Water System Refunding Bonds	(\$24,777)	(\$36,720)

Credit risk. As of June 30, 2017, the District was not exposed to credit risk on its outstanding swaps because the swaps had a negative fair value of \$24.8 million. The District faces a maximum possible loss equivalent to the swaps' fair value. However, if interest rates increase and the fair value of the swaps were to become positive, the District would be exposed to credit risk.

The District will be exposed to interest rate risk only if the counterparty to the swap defaults or if the swap is terminated. The swap agreements contain provisions that determine if and when the District or the counterparty must provide collateral. The agreements require full collateralization of the fair value of the swap should the counterparty's credit rating fall below a certain threshold. As of June 30, 2017, the District was not required to provide collateral to any SWAP counterparty.

**EAST BAY MUNICIPAL UTILITY DISTRICT
NOTES TO BASIC FINANCIAL STATEMENTS
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NOTE 6 – LONG-TERM DEBT (Continued)

Basis risk. Basis risk is the risk that the interest rate paid by the District on underlying variable rate bonds to bondholders temporarily differs from the variable swap rate received from the applicable counterparty. The District is exposed to basis risk as the District receives payments based on LIBOR rates to offset the actual variable interest rate the District pays on its bonds. The District is exposed to basis risk should the floating rate that it receives on a swap be less than the actual variable rate the District pays on the bonds. Depending on the magnitude and duration of any basis risk shortfall, the expected cost of the basis risk may vary. As of June 30, 2017, the District has a basis difference on its swaps of a negative 12 basis points (the District receives less from its swap floating rate payment than it pays out on its variable rate debt).

Termination risk. The District or the counterparty may terminate if the other party fails to perform under the terms of the SWAP contract. The District will be exposed to variable rates if the providers to the swap contracts default or if the swap contracts are terminated as it will lose the hedge provided by the SWAP. A termination of the swap contracts may also result in the District's making or receiving a termination payment based on market interest rates at the time of the termination. If at the time of termination the swap has a negative fair value, the District would be liable to the counterparty for a payment equal to the swap's fair value.

Swap payments and associated debt. Using rates as of June 30, 2017, debt service requirements of the District's outstanding variable-rate debt and net swap payments are as follows. As rates vary, variable-rate bond interest payments and net swap payments will vary. These payments below are included in the Debt Service Requirements at C. above:

For the Year Ending June 30	Variable-Rate Bonds		Interest Rate Swaps, Net	Total
	Principal	Interest	Interest	
2018	-	\$911	\$2,472	\$3,383
2019	-	911	2,472	3,383
2020	-	911	2,472	3,383
2021	-	911	2,472	3,383
2022	-	911	2,472	3,383
2023 - 2027	-	4,556	12,360	16,916
2028 - 2032	\$23,750	4,248	11,528	39,526
2033 - 2037	66,750	1,832	4,972	73,554
2038	14,750	-	-	14,750
Totals	\$105,250	\$15,191	\$41,220	\$161,661

**EAST BAY MUNICIPAL UTILITY DISTRICT
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NOTE 7 – NET POSITION

Net Position is the excess of all the District's assets and deferred outflows over all its liabilities and deferred inflows, regardless of fund. Net Position is divided into three captions. These captions apply only to Net Position and are described below:

Net Investment in Capital Assets describes the portion of Net Position which is represented by the current net book value of the District's capital assets, less the outstanding balance of any debt issued to finance these assets and any related deferred outflows and inflows.

Restricted describes the portion of Net Position which is restricted as to use by the terms and conditions of agreements with outside parties, governmental regulations, laws, or other restrictions which the District cannot unilaterally alter. These principally include developer fees received for use on capital projects, debt service requirements, and fees charged for the provision of future water resources.

Unrestricted describes the portion of Net Position which is not restricted to use.

NOTE 8 – EMPLOYEES' RETIREMENT PLAN

A. Description

The Employees' Retirement System is a single-employer, contributory, defined benefit pension plan (the Plan) which provides retirement, disability, survivorship, and post-employment healthcare benefits for eligible directors, officers, and employees of the District. The Plan is administered by a Retirement Board composed of three members appointed by the District's Board of Directors and two members elected by and from the active membership of the Plan, and a nonvoting member elected by the retirees of the Plan. Retirement Ordinance No. 40 assigns the authority to establish Plan benefit provisions to the District's Board of Directors. A stand-alone financial report of the Employees' Retirement System is available. Please send request to the Controller, Accounting Division, P.O. Box 24055, Oakland, CA 94623-1055 or visit the District website at <http://www.ebmud.com>.

All regular full-time employees of the District are members of the Plan in addition to certain job share and intermittent employees. In accordance with the ordinance governing the System, eligible employees become members on the first day they are physically on the job. Members become vested in the Plan after five years of continuous full-time employment. Vested members who terminate employment may elect a refund of their contributions or leave them in the Plan until eligible to receive benefits.

The Plan is funded by contributions from its members and from the District. District contribution percentages are recommended by the Retirement Board; employee contribution rates are established by the Board of Directors pursuant to the Ordinance, giving consideration to actuarial recommendations and prospective changes in factors which affect funding.

B. Retirement Benefits and Allowances

There are two tiers in effect currently, the 1980 Plan and the 2013 Plan. Employees who became Members of the retirement system prior to January 1, 2013, or who have reciprocal Membership are in the 1980 Plan, Employees who became Members on or after January 1, 2013 are in the 2013 Plan.

**EAST BAY MUNICIPAL UTILITY DISTRICT
NOTES TO BASIC FINANCIAL STATEMENTS
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NOTE 8 – EMPLOYEES’ RETIREMENT PLAN (Continued)

1980 Plan Members may elect voluntary reduced service retirement upon attaining the age of 54 and completing 5 years of continuous full-time employment. Members may elect voluntary unreduced service retirement upon attaining the age of 62 and completing 5 years of continuous full-time employment or age 65 without restriction. Members who continue to work upon attaining the normal retirement age of 65 continue to contribute to the Plan, and at the time they retire, computation of their retirement allowance is based upon their compensation and length of service as of the date of retirement. Service retirement allowances are computed by formulas specified in the Ordinance and are based on date of employment, length of employment, age at date of retirement, and compensation earned during employment.

2013 Plan Members may elect voluntary reduced service upon attaining the age of 52 and completing 5 years of continuous full-time employment. Members may elect voluntary unreduced service retirement upon attaining the age of 67, and completing 5 years of continuous full-time employment. Members who continue to work upon attaining the normal retirement age of 67 continue to contribute to the Plan, and at the time they retire, computation of their allowance is based upon their compensation and length of service as of the date of retirement. Service retirement allowances are computed by formulas specified in the Ordinance and are based on length of service, age at retirement, and compensation earned during employment.

C. Post-employment Healthcare Cost

In addition to retirement benefits, the District provides post-employment health benefits assistance (administered by the Employees’ Retirement System) for employees who retire from the District or their surviving spouses. As of June 30, 2017, there were 1,554 participants receiving these health care benefits.

Effective July 1, 1996, a 20-year vesting schedule for full benefits was implemented for all new participants. Effective January 1, 1999, retired members who had separated from the District prior to their retirement who has at least 10 years of service also became eligible for the post-employment health benefits based on the same sliding scale. The scale provides for 25% of healthcare benefits for service from 5 through 10 years, 50% of healthcare benefits for service from 10 through 15 years, 75% of healthcare benefits for service from 15 through 20 years, and 100% of healthcare benefits for service of 20 years or more. Effective July 1, 2003, the District reimbursed up to \$450 per month (\$550 per month effective July 1, 2004, for membership of a spouse or registered domestic partner) for any health, dental, or long-term care insurance premiums paid by the retiree for themselves, current spouse, or domestic partner, or any health, dental, or long-term care insurance premiums paid by the eligible surviving spouse of a retiree. These benefits are paid from a separate post-employment healthcare benefits fund which up until June 17, 2002, was advance funded entirely by the District on an actuarially determined basis. Cash reimbursement of these benefits totaled \$7,685 in the year ended June 30, 2017. Effective June 18, 2002, a portion of the post-employment healthcare benefits costs is recovered through employee contributions.

**EAST BAY MUNICIPAL UTILITY DISTRICT
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(Dollars in Thousands)**

NOTE 8 – EMPLOYEES’ RETIREMENT PLAN (Continued)

Through June 30, 1999, the medical premium subsidy was not a vested benefit and the District reserved the right to modify or terminate the benefit at any time. If the medical subsidy were terminated, assets accumulated from contributions made for the subsidy would be used to provide other pension benefits. Effective July 1, 1999, the medical premium subsidy became a vested benefit to a maximum of \$200 per month, was changed effective October 1, 2000, to a maximum of \$250 per month, and was changed effective July 1, 2002, to a maximum of \$400 per month per month, and was changed effective July 1, 2003, to a maximum of \$450 per month, and was changed again effective July 1, 2004, to a maximum of \$450 per month and \$550 per month for membership of a spouse or registered domestic partner.

D. Actuarial Assumptions and Funding Policy

The Plan’s funding policy provides for periodic District contributions at actuarially determined amounts sufficient to accumulate the necessary assets to pay benefits when due as specified by ordinance. The individual entry age normal method is used to determine the normal cost for other post-employment benefits (OPEB) and service cost for pension, and the OPEB unfunded actuarial accrued liability (past service liability) is amortized as a level percentage of future payroll over 30 years open period.

District contributions for the year ended June 30, 2017 are as follows:

1980 Plan:	
Pension plan:	
Employer service cost	14.50%
Toward unfunded pension liability	23.21%
Other post-employment benefits:	
Employer normal cost	1.16%
Unfunded actuarial accrued liability	4.35%
2013 Plan:	
Pension plan:	
Employer service cost	8.01%
Toward unfunded pension liability	22.91%
Other post-employment benefits:	
Employer normal cost	0.74%
Unfunded actuarial accrued liability	4.32%

**EAST BAY MUNICIPAL UTILITY DISTRICT
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NOTE 8 – EMPLOYEES’ RETIREMENT PLAN (Continued)

Effective June 30, 2017, contributions for fiscal year 2017/2018 are as follows:

1980 Plan:

Pension plan:

Employer service cost	15.57%
Toward unfunded pension liability	22.35%

Other post-employment benefits:

Employer normal cost	1.16%
Unfunded actuarial accrued liability	4.10%

2013 Plan:

Pension plan:

Employer service cost	8.95%
Toward unfunded pension liability	22.35%

Other post-employment benefits:

Employer normal cost	0.76%
Unfunded actuarial accrued liability	4.10%

Actuarial calculations reflect a long-term perspective and actuarial valuations involve estimates of the value of reported amounts and assumptions about the probability of events far into the future. Calculations are based on the benefits provided under the terms of the substantive plan in effect at the time of each valuation and on the pattern of sharing the costs between the employer and plan members to that point.

**EAST BAY MUNICIPAL UTILITY DISTRICT
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NOTE 8 – EMPLOYEES’ RETIREMENT PLAN (Continued)

Significant assumptions used to compute contribution requirements from the latest unaudited actuarial are as follows:

Valuation date	June 30, 2016
Actuarial cost method	Entry Age Normal Cost Method
Amortization method	Level percent of payroll
Remaining amortization period	Plan changes are amortized over separate decreasing 15-year periods; assumptions changes are amortized over separate decreasing 25-year periods; experience gains/losses are amortized over separate decreasing 20-year periods.
Assets valuation method	Market value of assets less unrecognized returns in each of the last five years. Unrecognized return is equal to the difference between the actual market return and the expected return on the market value, and is recognized over a five year period, further adjusted, if necessary, to be within 30% of the market value.
Actuarial assumptions:	
Net Investment Return	7.25%, net of investment and administrative expenses.
Average projected salary increases*	Ranges from 4.00% to 9.50% based on years of service*
Inflation rate	3.00%
Cost-of-living adjustments	3.00% per annum
Mortality	<i>Pre-retirement:</i> Headcount-Weighted RP-2014 Employee Mortality Table projected 20 years with the two-dimensional improvement scale MP-2015, set forward two years for males and one year for females <i>After Service Retirement and All Beneficiaries:</i> Headcount-Weighted RP-2014 Healthy Annuitant Mortality Table projected 20 years with the two-dimensional improvement scale MP-2015, set forward two years for males and one year for females <i>After Disability Retirement:</i> Headcount-Weighted RP-2014 Healthy Annuitant Mortality Table projected 20 years with the two-dimensional improvement scale MP-2015, set forward nine years for males and females

** Includes inflation of 3.00% plus across the board salary increases of 0.50% plus merit and promotional increases*

**EAST BAY MUNICIPAL UTILITY DISTRICT
NOTES TO BASIC FINANCIAL STATEMENTS
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NOTE 8 – EMPLOYEES’ RETIREMENT PLAN (Continued)

E. Contributions Required and Contributions Made

Contributions for the years ended June 30, 2017 and June 30, 2016, based on the June 30, 2016, actuarial valuation (latest available and includes amounts for post-employment healthcare benefits), were as follows:

	2017		2016	
	Pension	Healthcare Benefit Plan	Totals	
Regular contributions:				
District contributions	\$67,096	\$9,764	\$76,860	\$74,672
Member contributions	15,779	166	15,945	14,872
	82,875	9,930	92,805	89,544
Other contributions:				
Member buybacks	41	32	73	53
	\$82,916	\$9,962	\$92,878	\$89,597

Regular District and member contributions in fiscal 2017 represent an aggregate of 42.10% and 8.77% of covered payroll, respectively. The District’s contributions include amounts for post-employment healthcare benefits at a rate of 5.32% of covered payroll, determined by the actuarial dated June 30, 2016. The actual payroll for the District employees covered by the Plan for the year ended June 30, 2017, was \$182,548, which was 90.60% of the total District payroll of \$201,483.

The total District contribution of \$77,235 as of June 30, 2017, consisted of \$76,860 in regular contributions (\$26,532 for normal cost and service cost; also includes \$50,328 for amortization of the unfunded actuarial accrued liability) and \$375 of interest on contributions.

Regular District and member contributions in fiscal 2016 represent an aggregate of 42.44% and 8.48% of covered payroll, respectively. The District’s contributions include amounts for post-employment healthcare benefits at a rate of 5.32% of covered payroll, determined by the actuarial dated June 30, 2015. The actual payroll for the District employees covered by the Plan for the year ended June 30, 2016, was \$175,928, which was 90.48% of the total District payroll of \$194,432.

The total District contribution of \$75,089 as of June 30, 2016, consisted of \$74,672 regular contributions (\$26,867 for normal cost and \$47,805 for amortization of the unfunded actuarial accrued liability and payment to reduces the net pension liability) and \$417 of interest on contributions.

Member buyback contributions relate to prior years’ service credits for Plan participants. The Plan was amended in 1998 for limited temporary construction workers and in 2003 for intermittent employees to allow current members, who previously worked for the District in a status which did not qualify for membership in the System, to establish retirement service credit for prior service with payments over a period of two to eight years.

**EAST BAY MUNICIPAL UTILITY DISTRICT
 NOTES TO BASIC FINANCIAL STATEMENTS
 FOR THE YEARS ENDED JUNE 30, 2017 AND 2016
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NOTE 8 – EMPLOYEES’ RETIREMENT PLAN (Continued)

F. Schedule of Employer Contributions

The District’s annual OPEB costs and schedules of contributions for the past three years are as follows:

	<u>Actual Contribution</u>	<u>Annual OPEB Cost</u>	<u>Percentage Contributed</u>	<u>Net OPEB Obligation</u>
Fiscal year ended June 30:				
2015	\$9,275	\$11,241	83%	\$23,651
2016	9,871	11,542	86%	25,322
2017	10,139	11,967	85%	27,150

The annual required contributions for fiscal years ended June 30, 2017, 2016 and 2015, include amounts for the pay-as-you-go amounts for post-employment healthcare benefits.

**EAST BAY MUNICIPAL UTILITY DISTRICT
NOTES TO BASIC FINANCIAL STATEMENTS
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NOTE 8 – EMPLOYEES’ RETIREMENT PLAN (Continued)

Health Insurance Benefit Plan:

During the fiscal year ended June 30, 2017, the District made contributions to the Health Insurance Benefit Plan toward the Annual Required Contribution (ARC) amounting to \$9,764 which represented 4.85% of the \$201,483 total District payroll. During the fiscal year ended June 30, 2016, the District made contributions toward the ARC amounting to \$9,454 to the plan which represented 4.86% of the \$194,432 total District payroll. As a result, the District has recorded the Net OPEB Obligation (NOO), representing the difference between the ARC and actual contributions, as presented below:

Net OPEB obligation at June 30, 2015		\$23,651
Annual required contribution (ARC)	\$11,590	
Interest on net OPEB obligation	1,671	
Adjustments to the ARC	<u>(1,719)</u>	
Annual OPEB cost - fiscal 2014/2015	11,542	
Less contributions made during fiscal year:		
Contributions to Northern Trust	(9,454)	
Interest on Contributions to Northern Trust	<u>(417)</u>	
Contributions	(9,871)	
Contributions less than ARC		<u>1,671</u>
Net OPEB obligation at June 30, 2016		25,322
Annual required contribution (ARC)	12,019	
Interest on net OPEB obligation	1,794	
Adjustments to the ARC	<u>(1,846)</u>	
Annual OPEB cost - fiscal 2016/2017	11,967	
Less contributions made during fiscal year:		
Contributions to Northern Trust	(9,764)	
Interest on Contributions to Northern Trust	<u>(375)</u>	
Contributions	(10,139)	
Increase in net OPEB obligations		<u>1,828</u>
Net OPEB obligation at June 30, 2017		<u><u>\$27,150</u></u>

A schedule of funding progress for the pension and post-employment healthcare plans presenting multiple-year trend information as to whether the actuarial value of plan assets is increasing or decreasing relative to the actuarial accrued liability for benefits over time is presented immediately following the notes to basic financial statements in the Required Supplementary Information Section.

**EAST BAY MUNICIPAL UTILITY DISTRICT
NOTES TO BASIC FINANCIAL STATEMENTS
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NOTE 8 – EMPLOYEES’ RETIREMENT PLAN (Continued)

G. Net Pension Liability

The net pension liability (i.e., the Plan’s liability determined in accordance with GASB No. 68 less the fiduciary net position) as of June 30, 2017 and 2016 is as shown below:

	2017	2016
Total Pension Liability	\$1,995,863	\$1,845,912
Plan Fiduciary Net Position	(1,391,771)	(1,383,053)
Employer Net Pension Liability	\$604,092	\$462,859
Plan Fiduciary Net Position as a Percentage of Total Pension Liability	69.73%	74.93%
Covered payroll	\$174,586	\$166,886
Liability as a Percentage of Covered payroll	346.01%	277.35%

Actuarial valuation of the ongoing System involve estimates of the reported amounts and assumptions about the probability of occurrence of events far into the future. Examples include assumptions about future employment mortality and future salary increases. Amounts determined regarding the net pension liability are subject to continual revision as actual results are compared with past expectations and new estimates are made about the future. The Schedule of Employers’ net pension liability presents multi-year trend information about whether the plan fiduciary net positions are increasing or decreasing over time relative to the total pension liability. These schedules are presented in the Required Supplementary Information section. The net pension liabilities was measured as of June 30, 2016 and 2015 and are not adjusted or rolled forward to the June 30, 2017 and 2016 reporting dates, respectively.

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NOTES TO BASIC FINANCIAL STATEMENTS
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NOTE 8 – EMPLOYEES’ RETIREMENT PLAN (Continued)

For the year ended June 30, 2017, the District recognized pension expense as follows:

	<u>Water</u>	<u>Wastewater</u>	<u>Total</u>
Contributions made after measurement date	(\$57,284)	(\$9,812)	(\$67,096)
Current year changes in the net pension liability:			
Service cost	32,237	5,591	37,828
Interest on total pension liability	117,719	20,416	138,135
Member contributions	(12,562)	(2,179)	(14,741)
Projected earning on investments	(88,231)	(15,302)	(103,533)
Difference in expected and actual earnings	15,271	2,648	17,919
Other	(929)	(1,389)	(2,318)
Total current year activity	<u>63,505</u>	<u>9,785</u>	<u>73,290</u>
Total pension expense	<u>\$6,221</u>	<u>(\$27)</u>	<u>\$6,194</u>

At June 30, 2017, the District reported deferred outflows of resources and deferred inflows of resources related to pensions from the following sources:

	<u>Deferred Outflows of Resources</u>		<u>Deferred Inflows of Resources</u>	
	<u>Water</u>	<u>Wastewater</u>	<u>Water</u>	<u>Wastewater</u>
Pension contributions subsequent to measurement date	\$57,284	\$9,812		
Differences between expected and actual experience	3,791	657	\$720	\$125
Changes of assumptions	42,524	7,375		
Change in proportion and differences between employer contributions and proportionate share of contributions	3,014			3,014
Net difference between projected and actual earnings on pension plan investments	37,008	6,419		
Total	<u>\$143,621</u>	<u>\$24,263</u>	<u>\$720</u>	<u>\$3,139</u>

A total of \$67,096 was reported as deferred outflows of resources related to contributions subsequent to the measurement date and will be recognized as a reduction of the net pension liability in the year ended June 30, 2018. Other amounts reported as deferred outflows of resources and deferred inflows of resources related to pensions will be recognized as pension expense as follows:

Year Ended	<u>Deferred Outflows of Resources</u>		<u>Deferred Inflows of Resources</u>	
	<u>Water</u>	<u>Wastewater</u>	<u>Water</u>	<u>Wastewater</u>
June 30				
2018	\$16,414	\$2,747	\$3,170	1,679
2019	16,414	2,747	3,280	1,682
2020	16,414	2,747	(15,430)	(2,070)
2021	16,414	2,747	(8,482)	(1,252)
2022	20,681	3,463	18,182	3,100

**EAST BAY MUNICIPAL UTILITY DISTRICT
NOTES TO BASIC FINANCIAL STATEMENTS
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NOTE 8 – EMPLOYEES’ RETIREMENT PLAN (Continued)

The long-term expected rate of return on pension plan investments was determined using a building-block method in which best-estimates ranges of expected future real rates of return (expected returns, net of pension plan investment expense and inflation) are developed for each major asset class. These ranges are combined to produce the long-term expected rate of return by weighing the expected future real rates of return by the target asset allocation percentage and by adding expected inflation. The target allocation and projected arithmetic real rates of return, after deducting inflation, but before investment expenses, used in the derivation of the long-term expected investment rate of return assumption for each major asset class are summarized below:

Asset Class	Target Allocation	Long-Term Expected Real Rate of Return
Domestic Large Cap Equity	36%	5.78%
Domestic Small Cap Equity	4%	6.45%
Developed International Equity	12%	7.03%
Emerging Markets Equity	3%	9.46%
Domestic Bonds	10%	0.99%
Non-Core Fixed Income	10%	3.46%
Real Estate	5%	4.50%
Covered Calls	20%	5.00%
Total	100%	

The discount rates used to measure the total pension liability were 7.25% and 7.50% as of June 30, 2017 and June 30, 2016, respectively. The projection of cash flows used to determine the discount rate assumed plan member contributions will be made at the current contribution rate and that employer contributions will be made at rates equal to the actuarially determined contribution rates. For this purpose, only employer contributions that are intended to fund benefits of current plan members and their beneficiaries are included. Projected employer contributions that are intended to fund the service costs of future plan members and their beneficiaries, as well as projected contributions from future plan members, are not included. Based on those assumptions, the Pension Plan's fiduciary net position was projected to be available to make all projected future benefit payments for current plan members. Therefore, the long-term expected rate of return on Pension Plan investments was applied to all periods of projected benefit payments to determine the total pension liability as of both June 30, 2017 and June 30, 2016.

In accordance with GASB 68 regarding the disclosure of the sensitivity of the net pension liability to changes in the discount rate, the following table presents the net pension liability of the Plan as of June 30, 2017, calculated using the discount rate of 7.25%, as well as what the Plan's net pension liability would be if it were calculated using a discount rate that is 1-percentage-point lower (6.25%) or 1-percentage-point higher (8.25%) than the current rate:

	1% Decrease (6.25%)	Current Discount (7.25%)	1% Increase (8.25%)
Net Pension Liability	\$862,804	\$604,092	\$388,753

**EAST BAY MUNICIPAL UTILITY DISTRICT
NOTES TO BASIC FINANCIAL STATEMENTS
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NOTE 8 – EMPLOYEES’ RETIREMENT PLAN (Continued)

H. Net OPEB Liability

The net OPEB liability (The Plan’s liability determined according to GASB 74) as of June 30, is shown below:

	2017	2016
Total OPEB Liability	\$171,443	\$158,219
Plan Fiduciary Net Position	(26,358)	(24,156)
Employer Net OPEB Liability	\$145,085	\$134,063
Plan Fiduciary Net Position as a Percentage of Total OPEB Liability	15.37%	15.27%

The actuarial assumptions used in the June 30, 2016 valuation were based on the results of an experience study for the period from July 1, 2012 through June 30, 2016. They are the same as the assumptions used in the June 30, 2016 funding actuarial valuation except the discount rate is calculated as a blend of the investment return on plan assets and municipal bond rate in accordance with GASB 74, and implicit subsidy benefit payments are based on the age-based costs shown in the June 30, 2016 GASB 43/45 valuation report. The net OPEB liability measured as of June 30, 2017 and 2016 have been determined by rolling forward. The results of the actuarial valuations as of June 30, 2016 and 2015, respectively. A summary of the actuarial assumptions as of the latest actuarial valuation is shown below:

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NOTE 8 – EMPLOYEES’ RETIREMENT PLAN (Continued)

Valuation date	June 30, 2016
Actuarial cost method	Entry Age Normal Cost Method
Amortization method	Level percent of payroll
Remaining amortization period	Plan changes, assumption changes, and experience gains/losses prior to July 1, 2011 are amortized over separate decreasing 30-year amortization periods. On or after July 1, 2011, plan changes are amortized over separate decreasing 15-year periods; assumption changes are amortized over separate decreasing 25-year periods; and experience gains/losses (including year-to-year health assumption changes) are amortized over separate decreasing 20-year periods.
Assets valuation method	Market value of assets less unrecognized returns in each of the last five years. Unrecognized return is equal to the difference between the actual market return and the expected return on the market value, and is recognized over a five year period, further adjusted, if necessary to be within 30% of the market value.
Actuarial assumptions:	
Net Investment Return	5.12%, net of OPEB Plan investment expense, including inflation
Average projected salary increases*	Ranges from 4.00% to 9.50% based on years of service*
Inflation rate	3.00%
Health care trend	6.50% graded to ultimate 5.00% over 6 years
HIB increases	0.00%
Mortality	<i>Pre-retirement:</i> Headcount-Weighted RP-2014 Employee Mortality Table projected 20 years with the two-dimensional improvement scale MP-2015, set forward two years for males and one year for females <i>After Service Retirement and All Beneficiaries:</i> Headcount-Weighted RP-2014 Healthy Annuitant Mortality Table projected 20 years with the two-dimensional improvement scale MP-2015, set forward two years for males and one year for females <i>After Disability Retirement:</i> Headcount-Weighted RP-2014 Healthy Annuitant Mortality Table projected 20 years with the two-dimensional improvement scale MP-2015, set forward nine years for males and females

* Includes inflation of 3.00% plus across the board salary increases of 0.50% plus merit and promotional increases

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NOTE 8 – EMPLOYEES’ RETIREMENT PLAN (Continued)

The long-term expected rate of return on OPEB plan investments was determined using a building-block method in which best-estimates ranges of expected future real rates of return (expected returns, net of OPEB plan investment expense and inflation) are developed for each major asset class. These ranges are combined to produce the long-term expected rate of return by weighing the expected future real rates of return by the target asset allocation percentage and by adding expected inflation and subtracting expected investment expenses and a risk margin.

The target allocation and projected arithmetic real rates of return, after deducting inflation, but before investment expenses, used in the derivation of the long-term expected investment rate of return assumption for each major asset class are summarized below:

Asset Class	Target Allocation	Long-Term Expected Real Rate of Return
Domestic Large Cap Equity	36%	5.78%
Domestic Small Cap Equity	4%	6.45%
Developed International Equity	12%	7.03%
Emerging Markets Equity	3%	9.46%
Domestic Bonds	10%	0.99%
Non-Core Fixed Income	10%	3.46%
Real Estate	5%	4.50%
Covered Calls	20%	5.00%
Total	100%	

The municipal bond rates used to determine the blended discount rate, as discussed above, were 2.85% and 3.80%, which are based on the 20-year municipal bond rate for the Bond Buyer 20-Bond GO Index as of June 30, 2017 and June 30, 2016, respectively.

The discount rates used to measure the total OPEB liability were 5.12% and 5.94% as of June 30, 2017 and June 30, 2016, respectively. The projection of cash flows used to determine the discount rate assumed plan member contributions will be made at the current contribution rate and that employer contributions will be made at rates equal to the actuarially determined contribution rates for the \$450/\$550 HIB Subsidy excluding the implicit subsidy that will continue to be paid on a pay-as-you-go basis. For this purpose, only employer contributions that are intended to fund benefits of current plan members and their beneficiaries are included. Projected employer contributions that are intended to fund the service costs of future plan members and their beneficiaries, as well as projected contributions from future plan members, are not included. Based on those assumptions, the OPEB Plan's fiduciary net position was projected to be available to make projected future benefit payments for current plan members through June 30, 2041. Therefore, the long-term expected rate of return on OPEB Plan investments (7.25%) was applied to periods of projected benefit payments through June 30, 2041, and the 20-year municipal bond rate (2.85%) to determine the total OPEB liability as of June 30, 2017.

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NOTES TO BASIC FINANCIAL STATEMENTS
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NOTE 8 – EMPLOYEES’ RETIREMENT PLAN (Continued)

In accordance with GASB 74 regarding the disclosure of the sensitivity of the net OPEB liability to changes in the discount rate, the following table presents the net OPEB liability of the Plan as of June 30, 2017, calculated using the discount rate of 5.12%, as well as what the Plan’s net OPEB liability would be if it were calculated using a discount rate that is 1-percentage-point lower (4.12%) or 1-percentage point higher (6.12%) than the current rate:

	1% Decrease (4.12%)	Current Discount (5.12%)	1% Increase (6.12%)
Net OPEB Liability	\$163,015	\$145,085	\$129,760

Additionally, in accordance with GASB 74 regarding disclosure of the sensitivity of the net OPEB liability to changes in the trend rate (only applied to implicit subsidy and not the \$450/\$550 cash subsidy), the following table presents the net OPEB liability of the Plan as of June 30, 2017, calculated using the trend rate of 6.50% graded to ultimate 5.00% over 6 years, as well as what the Plan’s net OPEB liability would be if it were calculated using a trend rate that is 1-percentage-point lower (5.50% graded to ultimate 4.00% over 6 years) or 1-percentage-point higher (7.50% graded to ultimate 6.00% over 6 years) than the current rate:

	1% Decrease (5.50% graded to 4.00% ultimate)	Current Discount (6.50% graded to 5.00% ultimate)	1% Increase (7.50% graded to 6.00% ultimate)
Net OPEB Liability	\$142,543	\$145,085	\$147,940

I. Public Employees’ Pension Reform Act (PEPRA)

Assembly Bill 340 (AB 340) created the Public Employees’ Pension Reform Act (PEPRA) that implemented new benefit formulas and final compensation periods, as well as new contribution requirements for new employees hired on or after January 1, 2013, who meet the definition of new member under PEPRA.

The table below provides the details of the new provisions.

Benefit Formula	2.5% at Age 67
Final Compensation Period	Average of last 3 years
Employer Contribution Rate as a percentage payroll	35.98% of Reportable Compensation
Member Contribution Rate as a percentage of payroll	8.84% of Reportable Compensation

The employer contribution rate listed above was in effect until June 30, 2017. In accordance with the provisions of AB 340, the member contribution rate shown above was set at 50 percent of the expected total normal cost rate for the benefits that will apply to new members on January 1, 2013. The total normal cost rate used for this calculation is 44.82% of payroll for new members.

EAST BAY MUNICIPAL UTILITY DISTRICT
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NOTE 9 – RISK MANAGEMENT

The District has purchased commercial insurance for general, property, public officials’ liability and workers’ compensation. During the fiscal year ended June 30, 2017, the District paid \$1,502 for current year coverage.

The District’s liability, property, and workers’ compensation risks are insured by commercial insurance carriers, all of which are subject to the District’s self-insurance retentions, which vary by type of coverage.

Selected other coverages are:

Coverage	Policy Limit	Self-insurance retention
Workers' Compensation	Statutory Limit	\$5,000
All risk property (except flood)	\$200,000	500
Flood	25,000	1,500
Liability	90,000	10,000 Water/ 10,000 Wastewater
Crime	10,000	25
Boiler and Machinery	25,000	25
Pardee and Camanche Dams	25,000	25
Main Wastewater Treatment Plant	25,000	25

Settled claims have not exceeded the District’s policy limits in any of the past five fiscal years.

Claim expenses and liabilities are recorded when it is probable that a loss has occurred and the amount of that loss can be reasonably estimated. As of June 30, 2017, the amount of these liabilities was \$47,454. This amount (which has not been discounted) has been actuarially determined and includes an estimate of incurred but not reported losses. Changes in the reported liability are as follows:

	<u>2017</u>	<u>2016</u>
Liability at beginning of year	\$47,777	\$43,499
Current year claims and changes in estimates	7,618	12,260
Payments of claims	(7,941)	(7,982)
Liability at end of year	<u>\$47,454</u>	<u>\$47,777</u>
Estimated liability:		
Due within one year	\$10,096	\$9,641
Due in more than one year	37,358	38,136
	<u>\$47,454</u>	<u>\$47,777</u>

**EAST BAY MUNICIPAL UTILITY DISTRICT
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NOTE 10 – KNOWN ENVIRONMENTAL MATTERS

Following is a summary of the District's known environmental matters as of June 30, 2017, that meets the requirements of GASB Statement No. 49:

- Under a NPDES permit issued by the San Francisco Regional Water Quality Control Board, discharges from the District's wet weather facilities are prohibited. In 2014, the District signed a Consent Decree on this matter that focuses on the excess wet weather flow entering the District's system and allows discharges to continue while work to reduce them is performed. The Consent Decree requires the District and its seven satellite agencies to do a range of work to reduce flows, including working with property owners to address leaks in their private sewer laterals. The Consent Decree is expected to be in place until 2036, at which time discharges will have ceased. The District's cost to meet the requirements in the Consent Decree is approximately \$5M/year.
- The District submitted a Best Practicable Treatment and Control Evaluation Report to the Central Valley Regional Water Quality Control Board (CVRWQCB) on June 22, 2010, to address potential groundwater impacts from the wastewater treatment facility at Camanche North Shore Recreation Area. Based on the results of this evaluation the no-action alternative was selected as the preferred alternative because the constituents of concern only slightly exceed recommended target groundwater concentrations, and there are no significant impacts upon beneficial uses. On July 15, 2016, the CVRWQCB requested that the District produce a new technical report to further examine the ground water network including the effectiveness of existing monitoring wells and hydraulic connection between the wastewater ponds and the aquifer. The technical report was provided on March, 24, 2017, and indicated that new wells and additional monitoring was necessary in order to determine if there were any significant impacts. The District is still awaiting a response from the CVRWQCB before taking any action. It is possible that future analysis and communication with the CVRWQCB could mandate the District to construct wastewater treatment pond upgrades. At this preliminary planning stage, it is estimated that the cost would be approximately \$6.6M to upgrade the existing facilities or, alternatively, approximately \$7.8M to construct a joint wastewater project with Amador County.
- The CVRWQCB has requested that the District and U.S. Bureau of Land Management (BLM) address three abandoned ponds near Camanche Reservoir that contain mine wastes. The District and BLM have both been named as Potential Responsible Parties and are jointly completing this site investigation/remediation project. An Engineering Evaluation/Cost Analysis was completed in 2013 to present remediation alternatives and a Value Engineering (VE) study was completed in 2014 to analyze life-cycle costs of the recommended alternative consistent with required performance, reliability, quality, safety, and achievement of mission priorities. Subsequent to the VE study, BLM risk assessors audited the site to make recommendations for further financial savings. The modified proposal from BLM that incorporates the findings of their risk assessor reduced initial project costs significantly while addressing the key environmental concerns, which was well received by the CVRWQCB. The final site remedy is estimated to cost \$600 and will be split evenly between the District and BLM. A fully executed cost share agreement is in place and the remediation work is scheduled to be completed in the summer/fall of 2017. The District continues to monitor and review other areas in the vicinity that are influenced by old mining operations.

**EAST BAY MUNICIPAL UTILITY DISTRICT
NOTES TO BASIC FINANCIAL STATEMENTS
FOR THE YEARS ENDED JUNE 30, 2017 AND 2016
(Dollars in Thousands)**

NOTE 10 – KNOWN ENVIRONMENTAL LIABILITIES (Continued)

- The CVRWQCB has requested that the District address elevated concentrations of petroleum hydrocarbons in soil and groundwater associated with former underground storage tanks (USTs) at the District's Bixler facility. The District has completed significant site investigation work, including groundwater and soil gas monitoring, and requested closure of the site from the CVRWQCB. In early 2015, the CVRWQCB requested one more round of ground water monitoring at the site before they can consider closure. The additional monitoring was completed in summer 2015. On March 30, 2016, the CVRWQCB publicly noticed the site for closure. The public comment period closed on May 30, 2016, with no comments received. On July 12, 2016, the CVRWQCB provided notice that there were no objections to closure and the District should proceed with destruction of onsite monitoring wells by December 30, 2016, after which final closure may be granted. All monitoring wells at the site were destroyed in accordance with regulatory requirements by a licensed contractor except for one that could not be located. The location of the missing well has since been found but it appears that the well head had been sheared off and a telecommunications company had installed a utility vault box in the ground near the well and installed horizontal electrical conduit over the top of the well rendering access to the well problematic. Contra Costa County, which has authority over well destruction, has authorized the District to dig down to the top of the well and seal it with pressure-grout. Once this work has been completed the closure shall be final.
- The Alameda County Environmental Health Agency (County) requested that the District conduct additional site investigations at the Adeline Maintenance Center (AMC) Shops to further define the extent of petroleum hydrocarbons in soil and groundwater associated with former USTs. The District completed additional site investigations in accordance with an approved work plan in 2009. The results indicate that elevated concentrations of petroleum hydrocarbons still remain in onsite soil and groundwater in localized areas near the former USTs. In June 2016 the County requested that the District conduct a Sensitive Receptor Survey for the AMC Shops parcel as well as a Site Conceptual Model for the Anderson Building (located within the AMC complex parcel) and that all environmental data collected during previous investigations be posted to the State's GeoTracker website in electronic format, followed by a meeting with the County to agree upon final actions necessary to obtain regulatory closure of the site under the State Water Resource Control Board's Low Threat Closure Policy. The Sensitive Receptor Survey for the AMC Shops parcel was completed and submitted to the County in September 2016, and the District is awaiting the County's response. The District submitted the Site Conceptual Model for the Anderson Building, and the County has requested that groundwater samples be collected and analyzed. The District is currently producing a sampling plan to be submitted to the County prior to collecting the groundwater samples.
- On April 8, 2015, approximately 170 cubic yards of cellular concrete being used at a District construction site was accidentally released into a storm drain in Oakland, CA. The incident occurred when cellular concrete was being added to a 1,500 foot segment of an abandoned 24-inch water main line. The cellular concrete flowed through enclosed storm drain pipes and open creek channels following the release. District staff immediately initiated emergency response and an incident command structure to commence cleanup of the creek; the cleanup took approximately 4 weeks. The cleanup phase has transitioned into a long term restoration phase which is projected to include approximately three years of monitoring at the site to confirm status of water quality and resident biota. Enforcement negotiation is complete; the finale penalty amount was \$426. The District has been monitoring restoration activities and the area has rebounded to its pre-incident condition.

**EAST BAY MUNICIPAL UTILITY DISTRICT
NOTES TO BASIC FINANCIAL STATEMENTS
FOR THE YEARS ENDED JUNE 30, 2017 AND 2016
(Dollars in Thousands)**

NOTE 10 – KNOWN ENVIRONMENTAL LIABILITIES (Continued)

- In October 2015, November 2015, and May 2016, the District experienced unplanned emergency potable water discharges associated with water main breaks. In each of these cases, the potable water releases reached local waterways and resulted in fish kills despite rapid staff response and deployment of industry best management practices to the maximum extent feasible to minimize impacts. The District is in the process of enforcement negotiation with the regulatory agencies for these incidents. Penalty amount is estimated to be less than \$1M.
- In December 2016 and January 2017, during an extremely wet winter, the District experienced several wet weather-related sanitary sewer overflows and incidents of non-compliance at its wet weather facilities when specific permit effluent limits were not met. Enforcement action related to these incidents is currently being negotiated with the San Francisco Regional Water Quality Control Board. Penalties amount is unknown at this time.
- The District operates many facilities throughout Northern California that have NPDES permits, waste discharge requirements, and air permits. The total estimated liability for all known violations is less than \$350.

NOTE 11 - CONTINGENT LIABILITIES

The District is a defendant in a number of lawsuits which have arisen in the normal course of business including challenges over certain rates and charges. The ultimate outcome of these matters is not presently determinable. In the opinion of the District, these actions when finally adjudicated will not have a material adverse effect on the financial position of the District.

NOTE 12 – COMMITMENTS AND CONTINGENCIES

Central Valley Project

In December 1970, the District entered into a contract with the US Bureau of Reclamation for access to up to 150,000 acre feet per year of Central Valley Project (CVP) water from a diversion point on the American River. The successor contract, the Long Term Renewal Contract, was executed in April 2006 with a 40 year term. The Long Term Renewal Contract provides for delivery of up to 133,000 acre feet per year of CVP water in dry years to supplement the District's surface water supplies. Deliveries to the District are limited to a 165,000 acre foot total over any three successive dry years. In years in which the District takes delivery of CVP water, the District's allocated CVP capital cost and the District's operations and maintenance deficit balance will be paid down commensurately with the quantity of water delivered. For example, if the District had to take delivery of 80,000 acre feet in fiscal year 15, the District's CVP capital and deficit balances would each be reduced by approximately 20%. The balances must be paid off by 2030.

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REQUIRED SUPPLEMENTAL INFORMATION

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**EAST BAY MUNICIPAL UTILITY DISTRICT
REQUIRED SUPPLEMENTARY INFORMATION
FOR THE YEAR ENDED JUNE 30, 2017
(Dollars in thousands)**

(1) Pension Plan

Schedule of Changes in Employer's Net Pension Liability (in thousands):

	<u>2017</u>	<u>2016</u>	<u>2015</u>	<u>2014</u>
Total pension liability				
Service cost	\$37,828	\$36,791	\$34,987	\$34,857
Interest	138,135	131,595	127,558	120,810
Change of benefit terms				
Differences between expected and actual experience	5,278	(1,390)	438	(402)
Changes of assumptions	52,596		18,421	
Benefit payments, including refunds of employee contributions	<u>(83,886)</u>	<u>(77,790)</u>	<u>(71,232)</u>	<u>(65,427)</u>
Net change in total pension liability	149,951	89,206	110,172	89,838
Total pension liability - beginning	<u>1,845,912</u>	<u>1,756,706</u>	<u>1,646,534</u>	<u>1,556,696</u>
Total pension liability - ending (a)	<u>\$1,995,863</u>	<u>\$1,845,912</u>	<u>\$1,756,706</u>	<u>\$1,646,534</u>
Plan fiduciary net position				
Contributions - employer	\$65,218	\$64,177	\$61,660	\$53,795
Contributions - employee	14,741	13,260	11,963	10,427
Net investment income	13,934	59,288	216,601	136,630
Benefit payments, including refunds of employee contributions	(83,886)	(77,790)	(71,232)	(65,427)
Administrative expense	<u>(1,289)</u>	<u>(1,269)</u>	<u>(1,233)</u>	<u>(1,200)</u>
Net change in plan fiduciary net position	8,718	57,666	217,759	134,225
Plan fiduciary net position - beginning	<u>1,383,053</u>	<u>1,325,387</u>	<u>1,107,628</u>	<u>973,403</u>
Plan fiduciary net position - ending (b)	<u>\$1,391,771</u>	<u>\$1,383,053</u>	<u>\$1,325,387</u>	<u>\$1,107,628</u>
Plan's net pension liability - ending (a) - (b)	<u>\$604,092</u>	<u>\$462,859</u>	<u>\$431,319</u>	<u>\$538,906</u>

Schedule is intended to show information for 10 years. Additional years will be displayed as they become available.

Unaudited

**EAST BAY MUNICIPAL UTILITY DISTRICT
REQUIRED SUPPLEMENTARY INFORMATION
FOR THE YEAR ENDED JUNE 30, 2017
(Dollars in thousands)**

(2) Pension Plan

Schedule of Employer's Net Pension Liability (in thousands):

	2017	2016	2015	2014
Total pension liability	\$1,995,863	\$1,845,912	\$1,756,706	\$1,646,534
Plan fiduciary net position	(1,391,771)	(1,383,053)	(1,325,387)	(1,107,628)
Net pension liability	<u>\$604,092</u>	<u>\$462,859</u>	<u>\$431,319</u>	<u>\$538,906</u>
Plan fiduciary net position as a percentage of total pension liability:	69.73%	74.93%	75.45%	67.27%
Covered payroll *	\$174,586	\$166,886	\$159,513	\$153,707
Plan net pension liability as percentage of covered employee pay	346.01%	277.35%	270.40%	350.61%

* In accordance with GASB 82, the covered payroll amounts are defined as the payroll on which contributions to a pension plan are based. The covered payroll amounts for fiscal year 2014 through fiscal year 2016, were updated to adopt the provisions of GASB 82.

Schedule is intended to show information for 10 years. Additional years will be displayed as they become available.

(3) Pension Plan

Schedule of Employer's Contributions (in thousands):

Year ended June 30	Actuarially determined contributions	Contributions in relation to the actuarially determined contributions	Contributions deficiency (excess)	Covered-employee payroll *	Contributions as a percentage of covered employee payroll
2007	\$33,698	\$33,698	\$0	\$145,125	23.22%
2008	37,387	37,387	0	152,538	24.51%
2009	39,485	39,485	0	158,193	24.96%
2010	44,031	44,031	0	161,641	27.24%
2011	50,987	50,987	0	160,336	31.80%
2012	52,156	52,156	0	158,481	32.91%
2013	53,795	53,795	0	153,707	35.00%
2014	61,660	61,660	0	159,513	38.66%
2015	64,177	64,177	0	166,886	38.46%
2016	65,218	65,218	0	174,586	37.36%

* Derived by dividing the contributions in relation to the actuarial determined contributions by the contributions as a percentage of covered employee payroll. These amounts may therefore be different from the actual payrolls of the District. However, in accordance with GASB 82, the covered payroll amounts for the actuarial valuations for fiscal year 2013 through current are defined as the payroll on which contributions to the pension plan are based.

**EAST BAY MUNICIPAL UTILITY DISTRICT
REQUIRED SUPPLEMENTARY INFORMATION
FOR THE YEAR ENDED JUNE 30, 2017
(Dollars in thousands)**

(4) Pension Plan

Schedule of Investment Returns:

	2017	2016	2015	2014
Annual money weighted rate of return, net of investment expense	19.72%	4.46%	6.67%	19.42%

Schedule is intended to show information for 10 years. Additional years will be displayed as they become available.

(5) Post-Employment Healthcare Plan

Schedule of Changes in Employer's Net OPEB Liability (in thousands):

	2017	2016
Total OPEB liability		
Service cost	\$4,514	\$4,460
Interest	9,374	9,159
Change of benefit terms		
Changes due to experience gain and assumption changes other than experience study	(3,286)	(309)
Changes due to experience study (including lower discount rate)	12,471	
Benefit payments - cash	(7,685)	(7,394)
Benefit payments - estimated implicit subsidy	(2,164)	(2,241)
Net change in total OPEB liability	13,224	3,675
Total OPEB liability - beginning	158,219	154,544
Total OPEB liability - ending (a)	\$171,443	\$158,219
Plan fiduciary net position		
Employer contributions - cash	\$9,454	\$8,964
Employer contributions - estimated implicit subsidy	2,164	2,241
Employer contributions - total	\$11,618	\$11,205
Employee contributions	184	167
Net investment income	271	938
Benefit payments - cash	(7,685)	(7,394)
Benefit payments - estimated implicit subsidy	(2,164)	(2,241)
Administrative expense	(22)	(20)
Net change in plan fiduciary net position	2,202	2,655
Plan fiduciary net position - beginning	24,156	21,501
Plan fiduciary net position - ending (b)	\$26,358	\$24,156
Plan's net OPEB liability - ending (a) - (b)	\$145,085	\$134,063

Schedule is intended to show information for 10 years. Additional years will be displayed as they become available.

**EAST BAY MUNICIPAL UTILITY DISTRICT
REQUIRED SUPPLEMENTARY INFORMATION
FOR THE YEAR ENDED JUNE 30, 2017
(Dollars in thousands)**

(6) Post-Employment Healthcare Plan

Schedule of Employer's Net OPEB Liability (in thousands):

	2017	2016
Total OPEB liability	\$171,443	\$158,219
Plan fiduciary net position	(26,358)	(24,156)
Employer net OPEB liability	\$145,085	\$134,063
Plan fiduciary net position as a percentage of total OPEB liability	15.37%	15.27%
Covered payroll	\$174,586	\$166,886
Plan net OPEB liability as a percentage of covered payroll	83.10%	80.33%

Schedule is intended to show information for 10 years. Additional years will be displayed as they become available.

(7) Post-Employment Healthcare Plan

Schedule of Employer's Contributions (in thousands):

Year ended June 30	Actuarially determined contributions	Contributions in relation to the actuarially determined contributions	Contributions deficiency (excess)	Covered payroll *	Contributions as a percentage of covered employee payroll
2007	\$5,634	\$5,634	\$0	\$145,125	3.88%
2008	7,216	7,216	0	152,538	4.73%
2009	6,318	6,318	0	158,193	3.99%
2010	7,725	7,725	0	161,641	4.78%
2011	7,494	7,494	0	160,336	4.67%
2012	7,495	7,495	0	158,481	4.73%
2013	7,772	7,772	0	153,707	5.06%
2014	8,457	8,457	0	159,513	5.30%
2015	8,964	8,964	0	166,886	5.37%
2016	9,454	9,454	0	174,586	5.42%

* Derived by dividing the contributions in relation to the actuarial determined contributions by the contributions as a percentage of covered employee payroll. These amounts may therefore be different from the actual payrolls of the District. However, in accordance with GASB 82, the covered payroll amounts for the actuarial valuations for fiscal year 2013 through current are defined as the payroll on which contributions to the pension plan are based.

Unaudited

**EAST BAY MUNICIPAL UTILITY DISTRICT
NOTES TO REQUIRED SUPPLEMENTARY INFORMATION
FOR THE YEAR ENDED JUNE 30, 2017
(Dollars in thousands)**

(8) Notes to Required Supplementary Information

The pension-related information presented in the required supplementary schedules was determined as part of the Pension actuarial valuation at the date indicated. Additional information as of the latest Pension actuarial valuation is as follows:

Valuation date	June 30, 2016
Actuarial cost method	Entry Age Normal Cost Method
Amortization method	Level percent of payroll
Remaining amortization period	Plan changes are amortized over separate decreasing 15-year periods; assumptions changes are amortized over separate decreasing 25-year periods; experience gains/losses are amortized over separate decreasing 20-year periods.
Assets valuation method	Market value of assets less unrecognized returns in each of the last five years. Unrecognized return is equal to the difference between the actual market return and the expected return on the market value, and is recognized over a five year period, further adjusted, if necessary, to be within 30% of the market value.
Actuarial assumptions:	
Net Investment Return	7.25%, net of investment and administrative expenses.
Average projected salary increases*	Ranges from 4.00% to 9.50% based on years of service*
Inflation rate	3.00%
Cost-of-living adjustments	3.00% per annum
Mortality	<i>Pre-retirement:</i> Headcount-Weighted RP-2014 Employee Mortality Table projected 20 years with the two-dimensional improvement scale MP-2015, set forward two years for males and one year for females <i>After Service Retirement and All Beneficiaries:</i> Headcount-Weighted RP-2014 Healthy Annuitant Mortality Table projected 20 years with the two-dimensional improvement scale MP-2015, set forward two years for males and one year for females <i>After Disability Retirement:</i> Headcount-Weighted RP-2014 Healthy Annuitant Mortality Table projected 20 years with the two-dimensional improvement scale MP-2015, set forward nine years for males and females

** Includes inflation of 3.00% plus across the board salary increases of 0.50% plus merit and promotional increases*

Unaudited.

**EAST BAY MUNICIPAL UTILITY DISTRICT
NOTES TO REQUIRED SUPPLEMENTARY INFORMATION
FOR THE YEAR ENDED JUNE 30, 2017
(Dollars in thousands)**

(8) Notes to Required Supplementary Information (Continued)

The OPEB-related information presented in the required supplementary schedules was determined as part of the OPEB actuarial valuation at the date indicated. Additional information as of the latest OPEB actuarial valuation is as follows:

Valuation date	June 30, 2016
Actuarial cost method	Entry Age Normal Cost Method
Amortization method	Level percent of payroll
Remaining amortization period	Plan changes, assumption changes, and experience gains/losses prior to July 1, 2011 are amortized over separate decreasing 30-year amortization periods. On or after July 1, 2011, plan changes are amortized over separate decreasing 15-year periods; assumptions changes are amortized over separate decreasing 25-year periods; and experience gains/losses (including year-to-year health assumption changes) are amortized over separate decreasing 20-year periods.
Assets valuation method	Market value of assets less unrecognized returns in each of the last five years. Unrecognized return is equal to the difference between the actual market return and the expected return on the market value, and is recognized over a five year period, further adjusted, if necessary to be within 30% of the market value.
Actuarial assumptions:	
Net Investment Return	5.12%, net of OPEB Plan investment expense, including inflation
Average projected salary increases*	Ranges from 4.00% to 9.50% based on years of service*
Inflation rate	3.00%
Health care trend	6.50% graded to ultimate 5.00% over 6 years
HIB increases	0.00%
Mortality	<i>Pre-retirement:</i> Headcount-Weighted RP-2014 Employee Mortality Table projected 20 years with the two-dimensional improvement scale MP-2015, set forward two years for males and one year for females <i>After Service Retirement and All Beneficiaries:</i> Headcount-Weighted RP-2014 Healthy Annuitant Mortality Table projected 20 years with the two-dimensional improvement scale MP-2015, set forward two years for males and one year for females <i>After Disability Retirement:</i> Headcount-Weighted RP-2014 Healthy Annuitant Mortality Table projected 20 years with the two-dimensional improvement scale MP-2015, set forward nine years for males and females

* Includes inflation of 3.00% plus across the board salary increases of 0.50% plus merit and promotional increases

Unaudited.

SUPPLEMENTAL INFORMATION

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EAST BAY MUNICIPAL UTILITY DISTRICT
EMPLOYEE RETIREMENT SYSTEM TRUST FUND
COMBINING BALANCE SHEET

June 30, 2017

(With summarized comparative financial information as of June 30, 2016)

(DOLLARS IN THOUSANDS)

	2017			2016 Total
	Pension plan benefits	Post- employment healthcare benefits	Total	
Assets:				
Cash and cash equivalents, at fair value	\$48,032	\$956	\$48,988	\$40,657
Invested securities lending collateral	106,733	2,125	108,858	119,265
Prepaid expenses		518	518	502
Receivables:				
Brokers, securities sold	4,362	87	4,449	1,444
Employer	914	129	1,043	3,770
Plan members	220	0	220	781
Interest and dividends	2,295	46	2,341	2,237
Total receivables	7,791	262	8,053	8,232
Investments, at fair value:				
U.S. government obligations	65,641	1,307	66,948	83,039
Municipal bonds	2,093	42	2,135	2,367
Domestic corporate bonds	162,906	3,243	166,149	150,784
International bonds	16,304	324	16,628	20,257
Domestic stocks	986,155	19,630	1,005,785	854,501
International stocks	217,717	4,334	222,051	183,577
Real estate	82,637	1,645	84,282	83,140
Total investments	1,533,453	30,525	1,563,978	1,377,665
Total assets	1,696,009	34,386	1,730,395	1,546,321
Liabilities:				
Accounts payable and accrued expenses	2,021	40	2,061	1,755
Payables to brokers, securities purchased	6,699	133	6,832	7,172
Securities lending collateral	106,733	2,125	108,858	119,265
Total liabilities	115,453	2,298	117,751	128,192
Net position held in trust for pension benefits and post-employment healthcare benefits				
	<u>\$1,580,556</u>	<u>\$32,088</u>	<u>\$1,612,644</u>	<u>\$1,418,129</u>

See accompanying notes to financial statements

EAST BAY MUNICIPAL UTILITY DISTRICT
EMPLOYEES' RETIREMENT SYSTEM TRUST FUND
COMBINING STATEMENT OF CHANGES IN NET POSITION

For the Year Ended June 30, 2017

(With summarized comparative financial information for the year ended June 30, 2016)

(DOLLARS IN THOUSANDS)

	2017			2016 Total
	Pension plan benefits	Post- employment healthcare benefits	Total	
Additions:				
Contributions:				
Employer	\$67,096	\$9,764	\$76,860	\$74,672
Plan members	15,820	198	16,018	14,925
Total contributions	<u>82,916</u>	<u>9,962</u>	<u>92,878</u>	<u>89,597</u>
Investment income:				
Net appreciation (depreciation) in fair value of investments:				
Traded securities	173,632	3,251	176,883	(10,122)
Real estate	1,305	24	1,329	2,646
Interest	6,607	124	6,731	5,879
Dividends	20,628	386	21,014	19,346
Real estate operating income, net	1,099	21	1,120	1,098
Total investment income	<u>203,271</u>	<u>3,806</u>	<u>207,077</u>	<u>18,847</u>
Less:				
Investment expense	(4,522)	(85)	(4,607)	(4,293)
Borrowers' rebates and other agent fees on securities lending transactions	<u>(772)</u>	<u>(15)</u>	<u>(787)</u>	<u>(349)</u>
Net investment income	<u>197,977</u>	<u>3,706</u>	<u>201,683</u>	<u>14,205</u>
Total additions, net	<u>280,893</u>	<u>13,668</u>	<u>294,561</u>	<u>103,802</u>
Deductions:				
Benefits paid	90,240	7,912	98,152	91,152
Refund of contributions	465		465	419
Administrative expenses	1,403	26	1,429	1,311
Total deductions	<u>92,108</u>	<u>7,938</u>	<u>100,046</u>	<u>92,882</u>
Change in net position	188,785	5,730	194,515	10,920
Net position:				
Beginning of year	<u>1,391,771</u>	<u>26,358</u>	<u>1,418,129</u>	<u>1,407,209</u>
End of year	<u>\$1,580,556</u>	<u>\$32,088</u>	<u>\$1,612,644</u>	<u>\$1,418,129</u>

See accompanying notes to financial statements

**INDEPENDENT AUDITOR'S REPORT ON
INTERNAL CONTROL OVER FINANCIAL REPORTING
AND ON COMPLIANCE AND OTHER MATTERS BASED ON AN
AUDIT OF FINANCIAL STATEMENTS PERFORMED IN ACCORDANCE
WITH *GOVERNMENT AUDITING STANDARDS***

Board of Directors
East Bay Municipal Utility District
Oakland, California

We have audited, in accordance with the 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, the basic financial statements of the East Bay Municipal Utility District, as of and for the year ended June 30, 2017 and the related notes to the financial statements, and have issued our report thereon dated September 28, 2017. Our report included an emphasis of a matter paragraph disclosing the implementation of a new accounting principle.

Internal Control Over Financial Reporting

In planning and performing our audit of the financial statements, we considered the District's internal control over financial reporting (internal control) to determine the audit procedures that are appropriate in the circumstances for the purpose of expressing our opinions on the financial statements, but not for the purpose of expressing an opinion on the effectiveness of the District's internal control. Accordingly, we do not express an opinion on the effectiveness of the District's internal control.

A deficiency in internal control exists when the design or operation of a control does not allow management or employees, in the normal course of performing their assigned functions, to prevent, or detect and correct, misstatements on a timely basis. *A material weakness* is a deficiency, or a combination of deficiencies, in internal control, such that there is a reasonable possibility that a material misstatement of the District's financial statements will not be prevented, or detected and corrected on a timely basis. *A significant deficiency* is a deficiency, or a combination of deficiencies, in internal control that is less severe than a material weakness, yet important enough to merit attention by those charged with governance.

Our consideration of internal control was for the limited purpose described in the first paragraph of this section and was not designed to identify all deficiencies in internal control that might be material weaknesses or significant deficiencies. Given these limitations, during our audit we did not identify any deficiencies in internal control that we consider to be material weaknesses. However, material weaknesses may exist that have not been identified.

Compliance and Other Matters

As part of obtaining reasonable assurance about whether the District's financial statements are free from material misstatement, we performed tests of its compliance with certain provisions of laws, regulations, contracts, and grant agreements, noncompliance with which could have a direct and material effect on the determination of financial statement amounts. However, providing an opinion on compliance with those provisions was not an objective of our audit, and accordingly, we do not express such an opinion. The results of our tests disclosed no instances of noncompliance or other matters that are required to be reported under *Government Auditing Standards*.

We have also issued a separate Memorandum on Internal Control dated September 28, 2017 which is an integral part of our audit and should be read in conjunction with this report.

Purpose of this Report

The purpose of this report is solely to describe the scope of our testing of internal control and compliance and the results of that testing, and not to provide an opinion on the effectiveness of the District's internal control or on compliance. This report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering the District's internal control and compliance. Accordingly, this communication is not suitable for any other purpose.

Maze + Associates

Pleasant Hill, California
September 28, 2017

Financial Trends

These schedules contain trend information to help understand how the District's financial performance and well-being have changed over time.

Revenue Capacity

These schedules contain information to help the reader assess the District's revenue sources and rate structures.

Debt Capacity

These schedules contain information to help the reader assess the affordability of the District's current levels of outstanding debt and the District's ability to issue additional debt in the future.

Demographic and Economic Information

These schedules offer demographic, economic and District indicators to help the reader understand the environment within which the District financial activities take place.

Operating Information

These schedules contain service and infrastructure data to help the reader understand how the information in the District's financial report relates to the services the District provides and the activities it performs.

Financial Trends Section

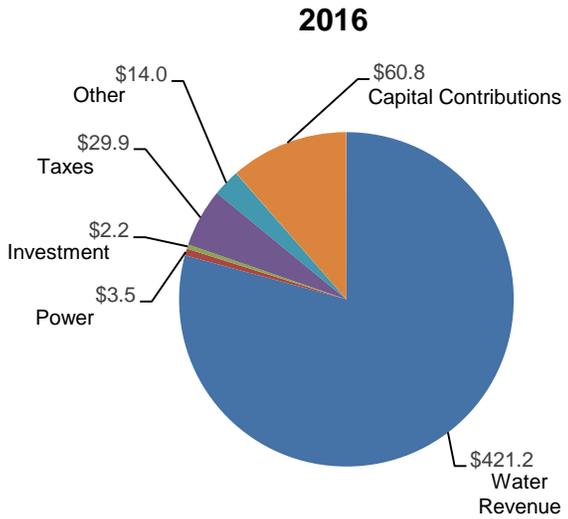
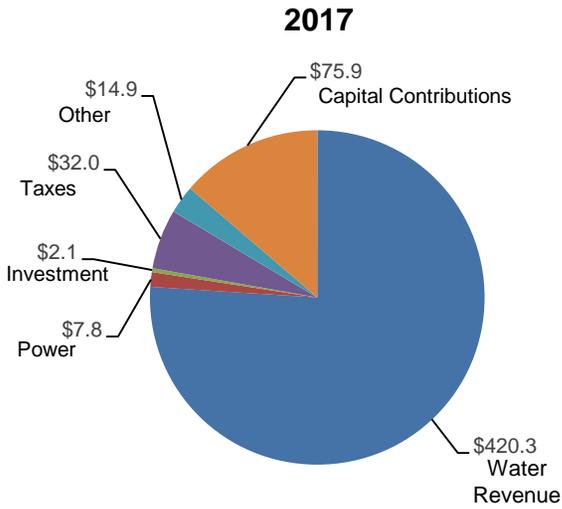
- Comparative Highlights
- Ten-Year Summary of Financial Data
- Changes in Net Position
- Net Position by Component

**Financial Trends
Comparative Highlights**

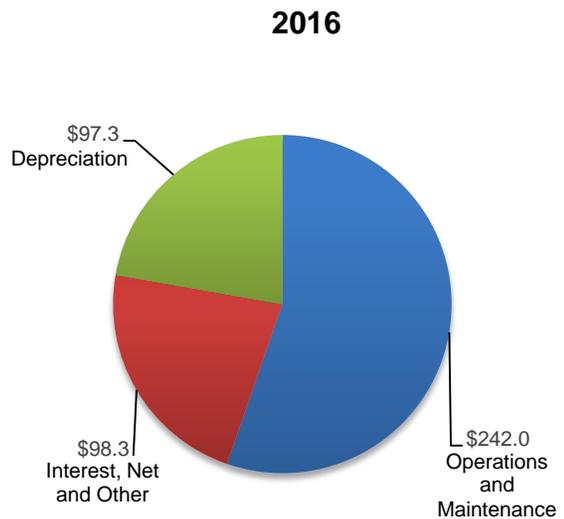
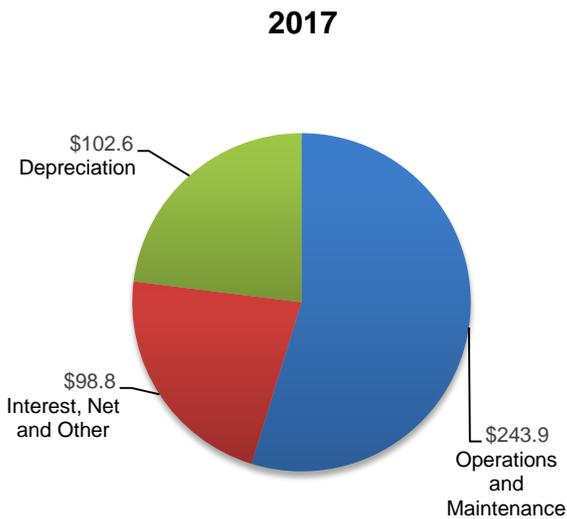
Fiscal Years 2017 and 2016

Water System

**What We Received:
(In Millions)**



**How It Was Used:
(In Millions)**



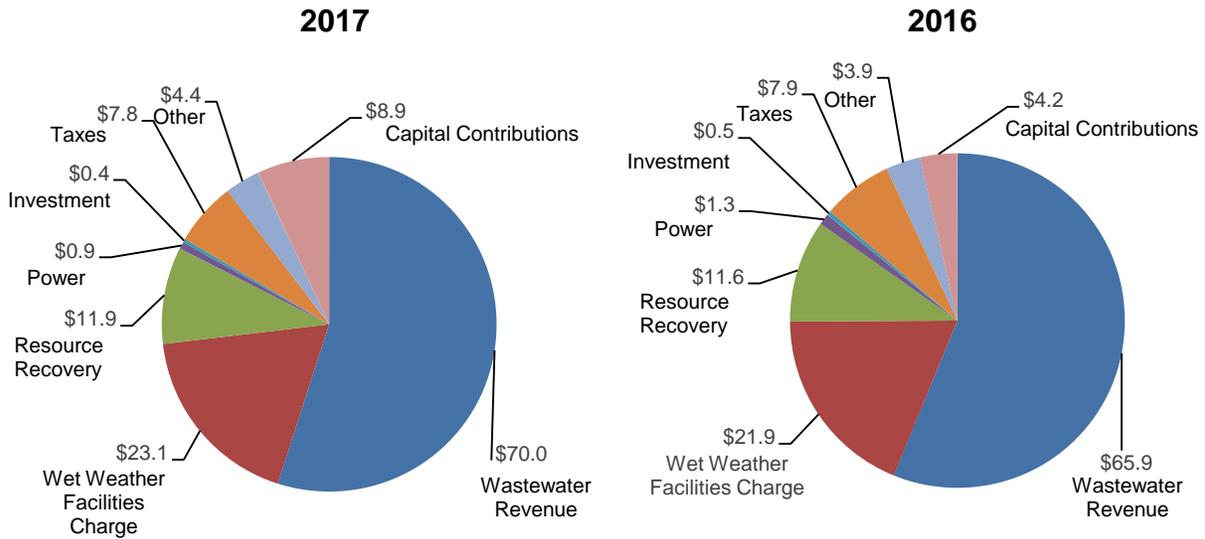
Sources: Financial Statements

Financial Trends
Comparative Highlights(continued)

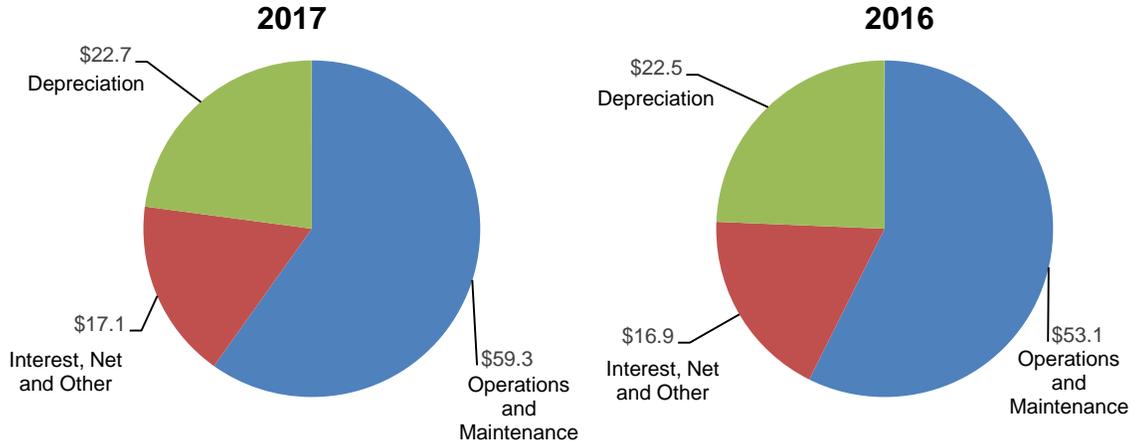
Fiscal Years 2017 and 2016

Wastewater System

What We Received:
(In Millions)



How It Was Used:
(In Millions)



Sources: Financial Statements

Financial Trends
Ten-Year Summary of Financial Data

Fiscal Years 2008 to 2017
(in Millions)

	2017	2016	2015	2014	2013	2012	2011	2010*	2009*	2008*
Fiscal Year Ended June 30										
Water System										
Revenues										
Water Revenue	\$ 420.3	\$ 421.2	\$ 362.1	\$ 367.6	\$ 336.1	\$ 306.2	\$ 283.6	\$ 271.0	\$ 287.3	\$ 270.6
Taxes	32.0	29.9	27.9	25.5	26.4	23.4	22.2	22.9	23.4	22.7
Investment	2.1	2.2	3.6	2.2	2.6	4.7	5.3	10.8	25.6	40.4
Power	7.8	3.5	2.2	1.4	3.6	4.6	8.1	6.2	4.3	3.1
Capital Contributions	75.9	60.8	71.5	49.0	55.8	45.2	45.8	39.9	38.3	50.5
Other ⁽¹⁾	14.9	14.0	15.3	19.9	12.8	16.2	68.3	7.7	6.2	29.4
Total Revenues	552.9	531.6	482.6	465.6	437.3	400.3	433.3	358.5	385.1	416.7
Expenses										
Operations and Maintenance	243.9	242.0	211.6	237.3	223.0	215.2	211.2	206.5	224.5	209.9
Depreciation	102.6	97.3	94.1	90.4	87.3	83.7	76.2	74.5	71.5	70.7
Interest, Net and Other ⁽²⁾⁽³⁾	98.8	98.3	101.2	116.3	101.3	133.2	146.5	69.9	81.8	93.2
Total Expenses	445.2	437.6	406.9	444.0	411.6	432.1	433.9	350.9	377.8	373.8
Changes in Net Position	\$ 107.8	\$ 94.0	\$ 75.7	\$ 21.6	\$ 25.7	\$ (31.8)	\$ (0.6)	\$ 7.6	\$ 7.3	\$ 42.9

* Restated to meet current formatting.

⁽¹⁾ Other revenue in 2011 includes receipts of \$53 million from Chevron for the RARE facilities.

⁽²⁾ Other expense in 2011 includes the \$53 million sale of the RARE facilities to Chevron.

⁽³⁾ Other expense in 2012 includes \$25 million GASB 64 expense due to changing SWAP counter parties. See Note 6F.

Sources: Financial Statements

Financial Trends
Ten-Year Summary of Financial Data

Fiscal Years 2008 to 2017
 (in Millions)

	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008*
Wastewater System										
Revenues										
Wastewater Revenue	\$ 70.0	\$ 65.9	\$ 65.1	\$ 61.7	\$ 58.8	\$ 55.2	\$ 50.9	\$ 48.8	\$ 47.1	\$ 46.2
Wet Weather										
Facilities Charges	23.1	21.9	21.8	19.4	18.3	17.2	16.1	15.3	14.3	13.7
Resource Recovery	11.9	11.6	11.3	10.6	9.3	9.1	9.4	7.6	7.7	6.9
Power	0.9	1.3	1.1	1.1	0.7	0.3	-	-	-	-
Taxes	7.8	7.9	8.5	9.9	9.4	8.3	7.4	7.4	7.4	7.2
Investment	0.4	0.5	0.2	0.3	2.6	0.6	1.3	0.8	3.1	5.8
Capital Contributions	8.9	4.2	3.1	1.2	1.6	2.8	3.1	2.9	9.0	2.8
Other	4.4	3.9	4.5	5.2	3.4	3.1	2.4	1.2	0.9	0.7
Total Revenues	127.3	117.2	115.6	109.4	104.1	96.6	90.6	84.0	89.5	83.3
Expenses										
Operations and Maintenance	59.3	53.1	54.8	56.0	52.5	52.5	51.8	46.2	50.1	47.6
Depreciation	22.7	22.5	24.2	22.2	21.9	19.7	19.1	19.4	18.3	16.4
Interest, Net and Other	17.1	16.9	25.1	17.6	18.5	19.9	16.0	13.0	13.6	15.1
Total Expenses	99.0	92.5	104.1	95.8	92.9	92.1	86.9	78.6	82.0	79.1
Changes in Net Position	\$ 28.3	\$ 24.7	\$ 11.5	\$ 13.6	\$ 11.2	\$ 4.5	\$ 3.7	\$ 5.4	\$ 7.5	\$ 4.2

* Restated to meet current formatting.

Sources: Financial Statements

Financial Trends

Changes in Net Position

Fiscal Years 2008 to 2017
(In Millions)

	Fiscal Year Ended June 30									
	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008*
Operating Revenues										
Charges for services:										
Water	\$ 420.3	\$ 421.2	\$ 362.1	\$ 367.6	\$ 336.1	\$ 306.2	\$ 283.6	\$ 271.0	\$ 287.3	\$ 270.6
Wastewater	105.0	99.4	98.2	91.7	86.4	81.5	76.4	71.7	69.1	66.7
Power	8.7	4.8	3.3	2.5	4.3	4.9	8.1	6.2	4.3	3.1
Total Operating Revenues	534.0	525.4	463.6	461.8	426.8	392.6	368.1	348.9	360.7	340.4
Operating Expenses										
Water	346.4	339.3	305.7	327.8	310.3	299.0	287.4	281.1	296.0	280.5
Wastewater	81.9	75.6	79.0	78.3	74.4	72.2	70.9	65.5	68.4	64.0
Total Operating Expenses	428.3	414.9	384.7	406.1	384.7	371.2	358.3	346.6	364.4	344.5
Operating Activities	105.7	110.5	78.9	55.7	42.1	21.4	9.8	2.3	(3.7)	(4.1)

* Restated to meet current formatting.

Statistical Section (continued)

East Bay Municipal Utility District

Financial Trends

Changes in Net Position (continued)

Fiscal Years 2008 to 2017
(In Millions)

	Fiscal Year Ended June 30									
	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008*
General Revenues and										
Other Changes in Net Position										
Non-Operating Activities										
Investment income	\$ 2.5	\$ 2.7	\$ 3.8	\$ 2.5	\$ 5.2	\$ 5.2	\$ 6.6	\$ 11.6	\$ 28.6	\$ 46.3
Taxes and subventions	39.8	37.8	36.4	35.4	35.8	31.7	29.6	30.3	30.8	29.9
Interest and amortization of bond expenses	(109.7)	(109.3)	(124.3)	(121.1)	(116.3)	(121.3)	(105.8)	(80.9)	(92.3)	(106.7)
Other income (expense)	13.0	12.0	17.8	12.4	12.7	(12.3)	14.0	6.9	4.1	28.4
Capital grants and contributions	84.8	65.0	74.6	50.2	57.4	48.0	48.9	42.8	47.3	53.3
Total Non-Operating Activities	30.4	8.1	8.3	(20.6)	(5.2)	(48.7)	(6.7)	10.7	18.5	51.2
Changes in Net Position⁽¹⁾	\$ 136.1	\$ 118.6	\$ 87.2	\$ 35.1	\$ 36.9	\$ (27.3)	\$ 3.1	\$ 13.0	\$ 14.8	\$ 47.1

* Restated to meet current formatting.

⁽¹⁾ Fiscal year 2015 of \$87.2 is for operating items only and does not include the GASB 68 adjustment. See Note 8 in the financial statements for details.
Fiscal year 2012 of \$(27.3) is for operating items only and does not include the GASB 65 adjustment. See Note 6G in the financial statements for details

Financial Trends
Net Position by Component

Fiscal Years 2008 to 2017
(In Millions)

	2017	2016	2015**	2014	2013	2012*	2011	2010	2009	2008
	Fiscal Year Ended June 30									
<u>Business-type activities</u>										
Net investment in capital assets	\$ 1,166.1	\$ 1,249.6	\$ 1,047.3	\$ 1,083.4	\$ 1,031.4	\$ 983.5	\$ 1,202.7	\$ 1,293.5	\$ 1,304.6	\$ 1,182.8
Restricted for construction	19.8	19.7	19.6	21.8	21.1	22.7	42.9	66.8	84.5	85.4
Restricted for debt service	4.2	12.7	13.6	32.8	36.9	73.5	63.8	66.5	58.8	55.1
Restricted-other	235.9	239.7	242.9	243.0	256.5	251.4	25.5	3.0	3.1	3.0
Unrestricted	102.4	(129.4)	(49.7)	282.7	282.7	260.5	297.5	199.5	165.3	275.2
Total business-type activities net position	\$ 1,528.4	\$ 1,392.3	\$ 1,273.7	\$ 1,663.7	\$ 1,628.6	\$ 1,591.6	\$ 1,632.4	\$ 1,629.3	\$ 1,616.3	\$ 1,601.5

* Restated for GASB 65 in 2012.

** Implementation of GASB 68 in 2015.

Revenue Capacity Section

- Ten-Year Summary of Revenue by Source
- Rate History
- Ten-Year Summary of Net Revenue and Debt Service Coverage

**Revenue Capacity
Ten-Year Summary of Revenue by Source**

Fiscal Years 2008 to 2017

Water System
(In Millions)

	Fiscal Year Ended June 30									
	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008
Water	\$420.3	\$421.2	\$362.1	\$367.6	\$336.1	\$306.2	\$283.6	\$271.0	\$287.3	\$270.6
Taxes	32.0	29.9	27.9	25.5	26.4	23.4	22.2	22.9	23.4	22.7
Interest	2.1	2.2	3.5	1.7	3.7	6.4	5.7	9.7	24.5	40.6
Power	7.8	3.5	2.2	1.4	3.6	4.6	8.1	6.2	4.3	3.1
Rental & Other ⁽¹⁾	14.9	14.0	15.4	20.4	11.7	14.5	67.9	7.0	4.1	27.7
Total	\$477.0	\$470.8	\$411.1	\$416.6	\$381.5	\$355.1	\$387.5	\$316.8	\$343.6	\$364.7

⁽¹⁾ Includes revenue of \$53 million from the sale of the RARE facilities to Chevron in 2011 and \$6 million from the sale of land in 2014.

Note: Interest is exclusive of the change in fair market value of investments in the year, which was included in Rental & Other on this page.

Sources: Financial Statements

**Revenue Capacity
Ten-Year Summary of Revenue by Source**

Fiscal Years 2008 to 2017

Wastewater System
(In Millions)

	Fiscal Year Ended June 30									
	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008*
Wastewater	\$ 70.0	\$ 65.9	\$ 65.1	\$ 61.7	\$ 58.8	\$ 55.2	\$ 50.9	\$ 48.8	\$ 47.1	\$ 46.2
Wet Weather Facilities	23.1	21.9	21.8	19.4	18.3	17.2	16.1	15.3	14.3	13.7
Resource Recovery	11.9	11.6	11.3	10.6	9.3	9.1	9.4	7.6	7.7	6.9
Power	0.9	1.3	1.1	1.1	0.7	0.3	-	-	-	-
Taxes	7.8	7.9	8.5	9.9	9.4	8.3	7.4	7.4	7.4	7.2
Interest	0.4	0.5	0.3	0.2	0.9	1.7	2.0	1.2	2.9	5.7
Other	4.4	3.9	4.4	5.3	5.0	2.1	1.6	0.6	1.2	0.8
Total	\$ 118.5	\$ 113.0	\$ 112.5	\$ 108.2	\$ 102.4	\$ 93.9	\$ 87.4	\$ 80.9	\$ 80.6	\$ 80.5

* Restated to meet current formatting.

Note: Interest is exclusive of the change in fair market value of investments in the year, which was included in Other on this page.

Sources: Financial Statements

**Revenue Capacity
Rate History**

Fiscal Years 2008 to 2017

Fiscal Year	Water		Wastewater	
	Monthly Base Rate	Rate per 748 (1ccf) Gallons	Monthly Base Rate	Rate per 748 (1ccf) Gallons
2008	9.08	1.73	9.64	0.51
2009	9.53	1.82	10.02	0.53
2010	10.13	2.00	10.42	0.56
2011	10.89	2.15	10.95	0.59
2012	11.54	2.28	11.61	0.63
2013	12.23	2.42	12.30	0.66
2014	13.42	2.66	13.18	0.73
2015	14.69	2.91	14.33	0.79
2016	19.34	2.95	12.57	1.04
2017	20.69	3.16	13.19	1.09

Notes: Rates are based on a 5/8" meter, which is the standard household meter size.

Revenue Capacity
Ten-Year Summary of Net Revenue and Debt Service Coverage

Fiscal Years 2008 to 2017

Water System

(In Millions)

Fiscal Year	Total Revenue (1)	Operations & Maintenance Expense (2)	Net Revenue Available for Debt Service	Debt Service	Coverage Ratio
2008*	\$ 378.2	\$ 154.9	\$ 223.3	\$ 119.5	1.87
2009*	353.8	176.2	177.6	121.3	1.46
2010*	351.7	156.1	195.6	126.6	1.54
2011*	374.7	159.5	215.2	143.7	1.50
2012*	381.4	174.4	207.0	130.7	1.58
2013	399.4	170.8	228.6	133.7	1.71
2014	398.6	188.2	210.4	126.4	1.66
2015	425.1	182.9	242.2	145.7	1.66
2016	480.3	208.8	271.5	164.2	1.65
2017	497.8	187.9	309.9	165.6	1.87

* Restated to match current format which includes capacity fees

(1) Gross Revenues include operating revenue, investment earnings, facilities reserve charges, grant revenues, rent and other revenues, and rate stabilization fund transfers.

(2) Operating & Maintenance Costs include operating expenses and before depreciation, amortization, debt service, pension expenses and expenses paid with property tax revenues.

Sources: Financial Statements and Official Statements

Revenue Capacity
Ten-Year Summary of Net Revenue and Debt Service Coverage

Fiscal Years 2008 to 2017

Wastewater System

(In Millions)

Fiscal Year	Total Revenue (1)	Operations & Maintenance Expense (2)	Net Revenue Available for Debt Service	Debt Service	Coverage Ratio
2008*	\$ 75.3	\$ 41.6	\$ 33.7	\$ 20.2	1.67
2009*	74.6	44.6	30.0	20.4	1.47
2010*	74.7	41.3	33.4	19.6	1.70
2011*	82.3	46.3	36.0	21.4	1.68
2012	88.7	48.8	39.9	26.4	1.51
2013	92.0	47.0	45.0	28.3	1.59
2014	96.5	50.8	45.7	28.6	1.60
2015	100.3	51.4	48.9	28.0	1.75
2016	108.1	50.7	57.4	29.1	1.98
2017	118.9	53.6	65.3	29.1	2.24

* Restated to match current format which includes capacity fees

(1) Gross Revenues include operating revenue, investment earnings, facilities reserve charges, capacity fees, grant revenues, rent and other revenues, and rate stabilization fund transfers.

(2) Operating & Maintenance Costs include operating expenses and before depreciation, amortization, debt service, pension expenses and expenses paid with property tax revenues.

Debt Capacity Section

- Debt Ratings
- Outstanding Debt by Type and per Account
- Authorized but Unissued Revenue Bonds and Outstanding Short-Term Debt
- Ratio of Net General Obligation Bonded Debt to Annual Billings and Net General Bonded Debt per Account
- Direct and Overlapping Debt
- Summary of Debt Outstanding

**Debt Capacity
Debt Ratings**

June 30, 2017

District Debt by Type	Rating by		
	Standard & Poor's	Moody's Investors Service	Fitch
Water System			
Fixed Rate Revenue Bonds	AAA	Aa1	AA+
Variable Rate Revenue Bonds			
Long-term Underlying Rating	AAA	Aa1	-
Short-term Rating	A-1+	VMIG-1	-
Commercial Paper Notes	A-1+	P-1	-
Wastewater System			
General Obligation Bonds	AAA	Aa1	-
Fixed Rate Revenue Bonds	AAA	Aa2	AA+
Extendable Commercial Paper	A-1+	P-1	F1+

Sources: Financial Statements

Debt Capacity
Outstanding Debt by Type and per Account

Fiscal Years 2008 to 2017

Water System

(In thousands)

Fiscal Year	General	Revenue	Loans	Commercial	Total	Accounts	Total
	Obligation Bonds (1)	Bonds (1)	Payable (1)	Paper Notes (1)	Outstanding Debt	(2)	Outstanding Debt Per Account
2008	\$ -	\$ 1,935,620	\$ 15,480	\$ 315,000	\$ 2,266,100	382	\$ 5.93
2009	-	1,899,360	32,769	315,300	2,247,429	382	5.88
2010	-	2,354,095	29,028	290,300	2,673,423	382	7.00
2011	-	2,314,425	26,501	312,900	2,653,826	383	6.93
2012	-	2,273,090	17,970	312,900	2,603,960	378	6.89
2013	-	2,210,830	17,002	372,900	2,600,732	379	6.86
2014	-	2,235,960	16,011	359,800	2,611,771	381	6.86
2015	-	2,319,730	14,996	359,800	2,694,526	382	7.05
2016	-	2,271,510	13,956	359,800	2,645,266	382	6.92
2017	-	2,417,730	12,891	359,800	2,790,421	383	7.29

Wastewater System

(In thousands)

Fiscal Year	General	Revenue	Loans	Commercial	Total	Accounts	Total
	Obligation Bonds (1)	Bonds (1)	Payable (1)	Paper Notes (1)	Outstanding Debt	(2)	Outstanding Debt Per Account
2008	\$ 32,165	\$ 343,235	\$ 29,879	\$ 15,000	\$ 420,279	176	\$ 2.39
2009	29,785	305,165	25,338	15,000	375,288	176	2.13
2010	27,255	298,215	20,652	15,000	361,122	176	2.05
2011	24,545	449,680	-	15,000	489,225	177	2.76
2012	21,650	440,085	-	15,000	476,735	174	2.74
2013	18,555	430,160	-	15,000	463,715	175	2.65
2014	14,160	419,880	-	15,000	449,040	176	2.55
2015	10,910	397,965	-	15,000	423,875	176	2.41
2016	7,345	388,530	-	15,000	410,875	176	2.33
2017	3,515	390,110	-	15,000	408,625	177	2.31

Source: (1) Financial Summary

(2) Customer Information System

**Debt Capacity
Authorized but Unissued Revenue Bonds
and Outstanding Short-Term Debt**

As of June 30, 2017
(In Thousands)

Water System

Authorized but unissued revenue bonds	\$	764,230
Outstanding short-term debt (due within one year)	\$	57,835

Wastewater System

Authorized but unissued revenue bonds	\$	186,025
Outstanding short-term debt (due within one year)	\$	13,550

Debt Capacity

**Ratio of Net General Obligation Bonded Debt to Annual Billings
and Net General Bonded Debt per Account**

Fiscal Years 2008 to 2017
(In Thousands)

Water System					
Fiscal Year	Accounts (1)	General Obligation Bonded Debt (2)	General Bonded Debt Per Account	Annual Billings (2)	Percentage of General Bonded Debt To Annual Billings
2008	382	\$ -	\$ -	\$ 270,564	0.00%
2009	382	-	-	287,313	0.00%
2010	382	-	-	271,022	0.00%
2011	383	-	-	283,644	0.00%
2012	378	-	-	306,228	0.00%
2013	379	-	-	336,066	0.00%
2014	381	-	-	367,547	0.00%
2015	382	-	-	362,136	0.00%
2016	382	-	-	421,240	0.00%
2017	383	-	-	420,293	0.00%

Wastewater System					
Fiscal Year	Accounts (1)	General Obligation Bonded Debt (2)	General Bonded Debt Per Account	Annual Billings (2)	Percentage of General Bonded Debt To Annual Billings
2008*	176	\$ 32,165	\$ 0.18	\$ 46,161	69.68%
2009*	176	29,785	0.17	47,085	63.26%
2010*	176	27,255	0.15	48,764	55.89%
2011*	177	24,545	0.14	50,910	48.21%
2012	174	21,650	0.12	55,191	39.23%
2013	175	18,555	0.11	58,784	31.56%
2014	176	14,160	0.08	61,775	22.92%
2015	176	10,910	0.06	65,108	16.76%
2016	176	7,345	0.04	65,916	11.14%
2017	177	3,515	0.02	69,999	5.02%

* Restated due to report duplication of certain accounts in previous years.

Source: (1) Customer Information System
(2) Financial and Statistical Reports

**Debt Capacity
Direct and Overlapping Debt**

Fiscal Year 2017

Wastewater System (Special District No. 1)

2016-17 Assessed Valuation: **\$ 97,450,690,427**

<u>Direct and Overlapping Tax and Assessment Debt:</u>	<u>% Applicable</u>	<u>Debt 6/30/17</u>
Bay Area Rapid Transit District	15.084 %	\$ 134,418,803
Peralta Community College District	100.000	394,480,000
Alameda Unified School District	100.000	135,566,829
Albany Unified School District	100.000	28,910,000
Berkeley Unified School District	100.000	250,795,000
Oakland Unified School District	100.000	928,325,000
Piedmont Unified School District	100.000	92,113,678
West Contra Costa Unified School District	19.962	210,480,985
Other School Districts	Various	111,994,273
City of Alameda	100.000	7,925,000
City of Albany	100.000	15,035,000
City of Berkeley	100.000	86,465,000
City of Oakland	99.983	216,618,169
East Bay Municipal Utility District, Special District No. 1	100.000	3,515,000
East Bay Regional Park District	23.266	28,754,449
West Contra Costa Healthcare District Parcel Tax Obligations	18.634	10,627,902
City of El Cerrito Parcel Tax Obligations	99.889	1,313,540
City of Alameda Community Facilities District No. 1	100.000	4,270,000
City of Alameda Community Facilities District No. 13-1	100.000	15,415,000
City of Berkeley Community Facilities District No. 1	100.000	3,355,000
1915 Act bonds	100.000	16,204,100
Sub-total Direct Tax and Assessment Debt		\$ 3,515,000
Sub-total Overlapping Tax and Assessment Debt		2,693,067,728
Total Direct and Overlapping Tax and Assessment Debt		\$ 2,696,582,728
<u>Ratios to 2016-17 Assessed Valuation:</u>		
Total Direct Debt (\$3,515,000)	0.004 %	
Total Direct and Overlapping Tax and Assessment Debt	2.77 %	

(continued)

Source: California Municipal Statistics, Inc.

**Debt Capacity
Direct and Overlapping Debt (Continued)**

Fiscal Year 2017

Wastewater System (Special District No. 1)

<u>Overlapping General Fund Debt:</u>	<u>(1) % Applicable</u>	<u>Debt 6/30/17</u>
Alameda County General Fund Obligations	36.120 %	\$ 309,455,391
Alameda County Pension Obligation Bonds	36.120	10,012,279
Contra Costa County General Fund Obligations	3.107	6,908,554
Contra Costa County Pension Obligation Bonds	3.107	5,773,738
Alameda-Contra Costa Transit District Certificates of Participation	45.420	8,005,275
Peralta Community College District Pension Obligation Bonds	100.000	159,637,846
Oakland Unified School District Certificates of Participation	100.000	32,165,000
Other School District Certificates of Participation	Various	3,165,326
City of Alameda Cetificates of Participation	100.000	9,210,000
City of Berkeley General Fund Obligations and Pension Obligation Bonds	100.000	28,515,000
City of Oakland General Fund Obligations	99.983	146,962,512
City of Oakland Pension Obligation Bonds	99.983	296,803,359
Other City General Fund and Pension Obligation Bonds	Various	26,076,217
Morada-Orinda Fire Protection District Pension Obligation Bonds	0.029	4,775
Total Gross Overlapping General Fund Debt		\$ 1,042,695,272
Less: Contra Costa County Obligations supported from revenue funds		2,373,527
City of Richmond obligations supported from port revenues		1,855,781
Total Net Overlapping General Fund Debt		\$ 1,038,465,964
 <u>Overlapping Tax Increment Debt (Successor Agencies):</u>	 0.076-100.000 %	 \$ 545,818,571
Total Direct Debt		\$ 3,515,000
Gross Overlapping Debt		4,281,581,571
Net Overlapping Debt		4,277,352,263
Gross Combined Total Debt		\$ 4,285,096,571
Net Combined Total Debt		\$ 4,280,867,263

(1) Percentage of overlapping agency's assessed valuation located within boundaries of the district.

Ratios to Adjusted Assessed Valuation:

Gross Combined Total Debt	4.40 %
Net Combined Total Debt	4.39 %

Ratios to Redevelopment Successor Agencies Incremental Valuation (\$20,465,228,221)

Total Overlapping Tax Increment Debt	2.67 %
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Source: California Municipal Statistics, Inc.

**Debt Capacity
Summary of Debt Outstanding***

As of June 30, 2017
(Thousands of Dollars)

Water System

Revenue Bonds

Series 2008A	\$	105,250
Series 2010A		7,020
Series 2010B		400,000
Series 2012A		81,750
Series 2012B		249,450
Series 2013A		28,065
Series 2014A		128,315
Series 2014B		233,450
Series 2014C		75,000
Series 2015A		429,360
Series 2015B		74,335
Series 2015C		110,715
Series 2017A		185,355
Series 2017B		309,665

Total Water System Debt Outstanding	\$	2,417,730
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Wastewater System

General Obligation Bonds

Series G	\$	3,515
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Revenue Bonds

Series 2010A		7,805
Series 2010B		150,000
Series 2012A		20,000
Series 2014A		72,040
Series 2015A		68,370
Series 2015B		2,475
Series 2017A		69,420

Total Wastewater System Debt Outstanding	\$	393,625
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*Debt outstanding does not include State low interest loans, commercial paper or outstanding refunded but not yet called debt.

Source: Financial Statements

Demographic and Economic Information Section

- District Information
- Principal Water Rate Payers by Type of Customer
- Billed Water Consumption by Type of Customer
- Consumption and Account Comparative Highlights
- Area Employment Information

Demographic and Economic Information

District Information

Fiscal Year 2017

		<u>Water System</u>	<u>Wastewater System</u>
Established		1923	1944
Service Area	(square miles)	332	88
Population Served	(in thousands)	1,410	685
Unemployment Rate	(Alameda County - %)	4.0	4.0
Facilities:			
Miles of aqueducts		105.21	-
Miles of pipeline		4,131	-
Miles of tunnels		21.25	-
Miles of interceptors		-	29
Number of treatment plants*		10	-
Number of pumping stations		140	15
Number of treated water reservoirs		170	-
Number of reservoirs		177	-
Total District untreated water reservoir capacity	(acre feet)	766,740	-
Water demand per fiscal year			
District-provided water	(acre feet)	175,879	-
Water recycling per day	(in million gallons)	-	6.90
Wastewater treatment capacity			
Primary treatment		-	320
Secondary treatment		-	168
Energy Recovery	(%)	-	130
Number of active employees		1,585	247
Average years of service of employees		12	12

* Includes one standby treatment plant

Sources: State of California, Environmental Compliance, Urban Water Management Plan, Engineering, Finance, Water Consumption Report and Human Resources

**Demographic and Economic Information
Principal Water Rate Payers by Type of Customer**

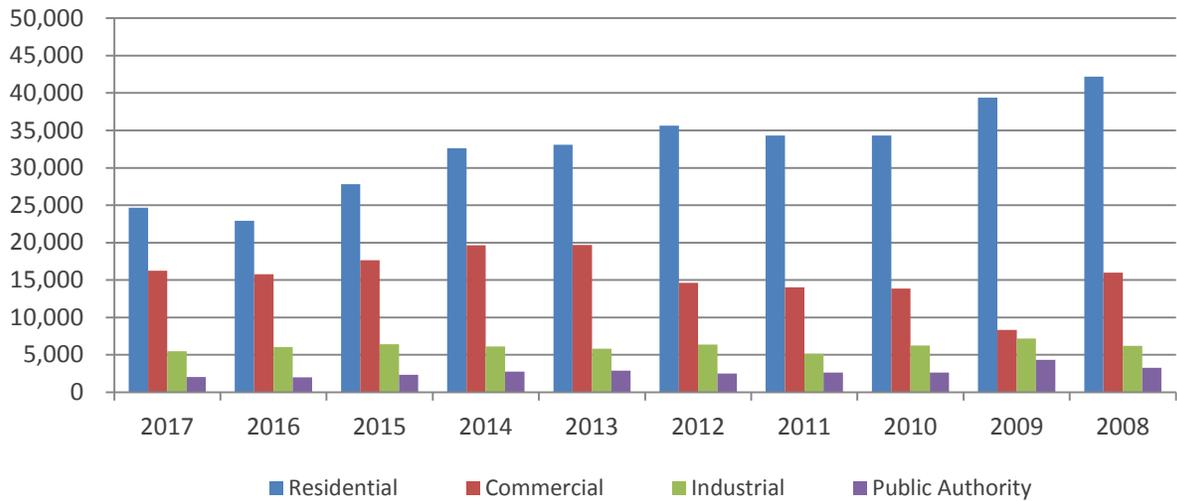
Fiscal Years 2008 to 2017
(In Thousands)

	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008
	Billings									
	%	%	%	%	%	%	%	%	%	%
Residential	\$ 231,504	\$ 224,003	\$ 199,467	\$ 208,790	\$ 209,119	\$ 191,034	\$ 173,911	\$ 165,157	\$ 173,911	\$ 167,060
	55.08%	53.18%	50.81%	55.08%	56.81%	62.23%	62.38%	61.31%	60.94%	60.53%
Commercial	133,073	137,403	113,934	112,769	85,702	76,109	69,045	64,198	68,433	62,304
	31.66%	32.62%	31.46%	31.46%	30.68%	25.50%	24.85%	24.34%	23.69%	23.82%
Industrial	30,524	35,739	26,145	23,711	20,796	20,965	23,269	24,549	27,570	23,582
	7.26%	8.48%	7.22%	7.22%	6.45%	6.19%	6.85%	8.20%	9.06%	9.60%
Public Authority	16,061	16,614	14,253	15,199	14,370	12,151	11,926	11,864	12,381	12,000
	3.82%	3.94%	3.94%	3.94%	4.14%	4.28%	3.97%	4.20%	4.38%	4.31%
Other	9,131	7,481	8,337	7,078	6,079	5,970	5,492	5,254	5,018	5,618
	2.17%	1.78%	2.30%	2.30%	1.93%	1.81%	1.95%	1.94%	1.94%	1.75%
Total annual billings	\$ 420,293	\$ 421,240	\$ 362,136	\$ 367,547	\$ 336,066	\$ 306,229	\$ 283,643	\$ 271,022	\$ 287,313	\$ 270,564
	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Top 1 Rate Payer	\$ 16,139	\$ 18,023	\$ 13,709	\$ 12,638	\$ 9,175	\$ 9,402	\$ 9,957	\$ 13,120	\$ 12,075	\$ 11,380
	3.84%	4.28%	3.79%	3.44%	3.44%	2.73%	3.07%	3.51%	4.84%	4.20%
Top 10 Rate Payers	41,967	46,702	37,498	35,760	31,128	26,449	26,267	28,645	29,122	27,796
	9.99%	11.09%	10.35%	9.73%	9.26%	8.64%	9.26%	10.57%	10.14%	10.27%

Source: Customer Information System

Demographic and Economic Information
Billed Water Consumption by Type of Customer
(In millions of gallons)

Fiscal Years 2008 to 2017



Fiscal Year	Type of Customer				Total
	Residential	Commercial	Industrial	Public Authority	
2008	42,172	15,971	6,198	3,280	67,621
2009	39,366	8,323	7,189	4,332	59,210
2010	34,317	13,880	6,228	2,652	57,077
2011	34,330	14,016	5,145	2,646	56,137
2012	35,657	14,632	6,363	2,521	59,173
2013	33,083	19,686	5,818	2,878	61,465
2014	32,604	19,666	6,120	2,752	61,142
2015	27,827	17,657	6,402	2,314	54,200
2016	22,925	15,786	6,048	1,977	46,736
2017	24,656	16,226	5,496	2,056	48,434

Source: Customer Information System

**Demographic and Economic Information
Consumption and Account Comparative Highlights**

Fiscal Years 2017 and 2016

Water System	2017	2016
During the Year:		
Total Water Production, millions of gallons	57,311	53,390
Average Daily Water Production, MGD*	157	146
Maximum Daily Water Production, MGD	222	186
Minimum Daily Water Production, MGD	112	118
At Year End:		
Number of Accounts	383,284	382,114
Number of Active Employees	1,585	1,564
Miles of Water Distribution Pipe	4,131	4,130
Operating Distribution Storage Capacity, millions of gallons	607	652

Wastewater System

During the Year:		
Average Daily Wastewater Flow, MGD	69	56
At Year End:		
Number of Accounts	176,921	176,286
Number of Active Employees	247	252

*=millions of gallons per day

**Demographic and Economic Information
Area Employment Information**

Fiscal Years 2016 to 2017

Rank	Company	Estimated Total Employees	Percentage of Total County Employment
1	Kaiser Permanente Medical Group Inc.	28,481	2.16%
2	Chevron Corporation	16,257	1.23%
3	Safeway Inc.	11,553	0.88%
4	County of Alameda	8,690	0.66%
5	AAA Nothern California, Nevada & Utah	7,483	0.57%
6	John Muir Health	6,181	0.47%
7	Wells Fargo Bank	5,326	0.40%
8	PG&E Corporation	5,154	0.39%
9	UPS	4,980	0.38%
10	Lam Research Corporation	4,500	0.34%

Previous years data unavailable.

Source: County of Alameda and County of Contra Costa Area Employment, CAFR FY2016.

Operating Information Section

- Full-Time Equivalent District Positions by Function/Program
- Assessed Valuation of Taxable Property
- Ten-Year Summary of Property, Plant and Equipment
- Capital Asset Statistics by Function/Program
- Operating Indicators by Function/Program
- Ten-Year Summary of Expense by Source

Operating Information

Full Time Equivalent District Positions by Function/Program

Fiscal Years 2008 to 2017

<u>Function/Program</u>	<u>Fiscal Year Ended June 30</u>									
	<u>2017</u>	<u>2016</u>	<u>2015</u>	<u>2014</u>	<u>2013</u>	<u>2012</u>	<u>2011</u>	<u>2010</u>	<u>2009</u>	<u>2008</u>
Maintenance and Construction	764.0	760.0	732.5	732.5	732.0	699.0	660.0	660.0	603.5	603.5
Water Operations and Maintenance	188.0	189.0	196.5	196.5	197.5	196.5	232.5	235.5	282.5	279.5
Water Resources	37.5	39.0	38.0	40.0	44.0	46.0	44.0	44.0	42.0	42.0
Natural Resources	68.5	69.5	69.5	69.5	69.5	69.5	69.5	70.5	68.0	68.0
Engineering and Construction	267.5	264.0	250.5	250.5	250.5	258.5	255.5	257.5	253.5	254.5
Office of the General Manager	25.5	25.5	26.5	25.5	25.5	29.5	29.5	29.5	33.5	33.5
Finance	99.5	98.5	97.5	96.5	97.5	55.0	57.0	57.0	54.0	54.0
Information Systems	94.0	96.0	92.0	93.0	95.0	94.0	94.0	94.0	93.0	93.0
Administration Department	2.0	2.0	2.0	56.0	57.0	103.5	106.5	106.5	107.5	107.5
Customer and Community Services ⁽¹⁾	153.5	151.5	142.5	101.0	104.0	138.0	138.0	144.0	137.0	137.0
Human Resources	56.5	58.5	58.0	47.5	47.5	49.5	48.5	48.5	49.5	49.5
Office of General Counsel	17.0	17.0	17.0	17.0	17.0	16.5	16.5	16.5	16.5	16.5
Water Recycling Program	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
Wastewater	286.5	285.5	288.5	286.5	286.5	284.5	286.5	283.5	285.5	284.5
Total	<u>2068.0</u>	<u>2064.0</u>	<u>2019.0</u>	<u>2,020.0</u>	<u>2,031.5</u>	<u>2,048.0</u>	<u>2,046.0</u>	<u>2,055.0</u>	<u>2,034.0</u>	<u>2,031.0</u>

Note: Budgeted full-time equivalent positions available by Function/Program, actual headcount at year end for Water System and Wastewater System listed in: Demographic and Economic Information - Consumption and Account Comparative Highlights.

Operating Information
Assessed Valuation of Taxable Property

Fiscal Years 2008 to 2017
(In Millions)

	Fiscal Year Ended June 30									
	2017	2016	2015	2014	2013	2012	2011	2010*	2009*	2008
Water System										
Alameda County	\$ 126,352	\$ 119,325	\$ 112,041	\$ 103,645	\$ 98,957	\$ 94,461	\$ 92,498	\$ 91,896	\$ 93,523	\$ 95,616
Contra Costa County**	107,515	102,552	96,463	89,672	83,087	81,219	79,598	79,539	82,362	85,734
Total	\$ 233,867	\$ 221,877	\$ 208,504	\$ 193,317	\$ 182,044	\$ 175,680	\$ 172,096	\$ 171,435	\$ 175,885	\$ 181,350
Wastewater System										
Alameda County	\$ 97,459	\$ 91,776	\$ 85,883	\$ 79,134	\$ 75,006	\$ 71,934	\$ 70,659	\$ 70,004	\$ 71,451	\$ 72,332
Contra Costa County	5,976	5,674	5,291	4,843	4,437	4,216	4,335	4,368	4,319	4,395
Total	\$ 103,435	\$ 97,450	\$ 91,174	\$ 83,977	\$ 79,443	\$ 76,150	\$ 74,994	\$ 74,372	\$ 75,770	\$ 76,727

Net assessed valuations, plus homeowners' exemptions, the taxes on which are paid by the State. All valuations are stated on a 100% of full cash value basis.

* Revised valuations for all years with reduction for Redevelopment Agencies removed.

** Minor revision in Contra Coasta County assessed valuation from amounts previously reported due to a change in source data used.

Source: Alameda and Contra Costa Counties

Operating Information
Ten-Year Summary of Property, Plant and Equipment

Fiscal Years 2008 to 2017

Water System
(In Millions)

	Fiscal Year Ended June 30									
	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008
Structures, Buildings and Equipment	\$5,264.5	\$5,131.1	\$4,919.4	\$4,779.4	\$ 4,600.4	\$ 4,473.1	\$ 4,040.1	\$ 3,864.4	\$ 3,705.1	\$ 3,591.6
Less Accumulated Depreciation	<u>(1,793.9)</u>	<u>(1,696.6)</u>	<u>(1,602.8)</u>	<u>(1,510.2)</u>	<u>(1,423.7)</u>	<u>(1,337.9)</u>	<u>(1,253.7)</u>	<u>(1,177.5)</u>	<u>(1,104.2)</u>	<u>(1,035.0)</u>
Subtotal	<u>3,470.6</u>	<u>3,434.5</u>	<u>3,316.6</u>	<u>3,269.2</u>	<u>3,176.7</u>	<u>3,135.2</u>	<u>2,786.4</u>	<u>2,686.9</u>	<u>2,600.9</u>	<u>2,556.6</u>
Land and Rights-of-Way	64.5	58.7	58.4	55.2	55.5	55.4	52.9	53.5	50.9	49.9
Construction in Progress	<u>405.4</u>	<u>303.0</u>	<u>309.4</u>	<u>243.2</u>	<u>252.5</u>	<u>209.8</u>	<u>716.6</u>	<u>783.1</u>	<u>705.6</u>	<u>422.7</u>
Total Capital Assets, Net	<u>\$ 3,940.5</u>	<u>\$ 3,796.2</u>	<u>\$ 3,684.4</u>	<u>\$ 3,567.6</u>	<u>\$ 3,484.7</u>	<u>\$ 3,400.4</u>	<u>\$ 3,555.9</u>	<u>\$ 3,523.5</u>	<u>\$ 3,357.4</u>	<u>\$ 3,029.2</u>

Sources: Financial Statements

Operating Information

Ten-Year Summary of Property, Plant and Equipment

Fiscal Years 2008 to 2017

Wastewater System
(In Millions)

Fiscal Year Ended June 30

	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008
Structures, Buildings and Equipment	\$ 1,073.5	\$ 1,027.6	\$ 991.7	\$ 969.6	\$ 899.9	\$ 877.7	\$ 815.8	\$ 797.2	\$ 768.5	\$ 744.8
Less Accumulated Depreciation	<u>(441.3)</u>	<u>(418.7)</u>	<u>(396.1)</u>	<u>(371.9)</u>	<u>(353.6)</u>	<u>(331.9)</u>	<u>(312.1)</u>	<u>(293.0)</u>	<u>(273.6)</u>	<u>(255.6)</u>
Subtotal	<u>632.2</u>	<u>608.9</u>	<u>595.6</u>	<u>597.7</u>	<u>546.3</u>	<u>545.8</u>	<u>503.7</u>	<u>504.2</u>	<u>494.9</u>	<u>489.2</u>
Land and Rights-of-Way	21.3	21.2	21.0	20.2	20.0	20.0	19.9	19.7	19.7	19.5
Construction in Progress	<u>57.2</u>	<u>63.4</u>	<u>65.0</u>	<u>59.1</u>	<u>100.3</u>	<u>87.6</u>	<u>112.2</u>	<u>81.8</u>	<u>57.9</u>	<u>46.3</u>
Total Capital Assets, Net	\$ 710.7	\$ 693.5	\$ 681.6	\$ 677.0	\$ 666.6	\$ 653.4	\$ 635.8	\$ 605.7	\$ 572.5	\$ 555.0

Sources: Financial Statements

**Operating Information
Capital Asset Statistics by Function/Program**

Fiscal Years 2008 to 2017

<u>Function/Program</u>	Fiscal Year Ended June 30									
	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008
Water System										
Water mains (miles)	4,131	4,130	4,126	4,115	4,110	4,110	4,110	4,110	4,110	4,110
Fire hydrants	30,340	30,211	30,113	30,576	30,453	30,421	30,319	30,247	30,203	30,050
Reservoir storage at June 30 (in acre feet)	735,260	652,280	382,050	466,250	610,000	631,580	670,580	719,680	657,270	472,330
Wastewater System										
Sanitary sewers (miles) Owned by various communities										
Storm sewers (miles) Owned by various communities										
Treatment capacity (thousands of gallons per day)	168,000	168,000	168,000	168,000	168,000	168,000	168,000	168,000	168,000	168,000

Source: Engineering Department and Accounting Department

Operating Information
Operating Indicators by Function/Program

Fiscal Years 2008 to 2017

<u>Function/Program</u>	Fiscal Year Ended June 30									
	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008
Water System										
New connections	760	741	1,041	621	534	426	477	514	735	1,535
Water main breaks	918	1,189	1,027	980	813	825	726	852	1,238	916
Average daily production (millions of gallons)	157	146	146	187	184	178	174	174	182	205
Peak daily production (millions of gallons)	222	186	186	288	253	251	260	253	262	288
Wastewater System										
Average daily sewage treatment (millions of gallons)	69	56	56	60	61	62	71	68	66	69

Source: NBO/CMS/Annual Report/Wastewater

**Operating Information
Ten-Year Summary of Expense by Source**

Fiscal Years 2008 to 2017
(In Millions)

	Fiscal Year Ended June 30									
	2017	2016	2015	2014	2013	2012	2011*	2010*	2009*	2008*
Interest and Amortization of Bonds	\$ 109.7	\$ 109.3	\$ 124.3	\$ 121.1	\$ 116.3	\$ 121.3	\$ 105.8	\$ 80.9	\$ 92.3	\$ 106.7
Depreciation on Utility Plant	125.2	119.8	118.3	112.7	109.2	103.5	95.2	94.0	89.8	87.1
Water Treatment and Distribution	113.6	106.5	100.0	97.6	89.6	91.8	84.2	86.0	83.5	80.8
General Administration	43.6	49.7	45.7	57.7	61.7	46.9	52.2	49.5	63.7	61.9
Raw Water ⁽¹⁾	37.6	64.4	43.5	41.1	33.1	31.8	31.1	28.9	36.3	29.6
Sewer Treatment Plant Operations	35.1	33.3	32.5	31.7	28.7	30.4	28.7	25.2	25.9	24.8
Financial and Risk Management	21.6	19.6	19.3	17.0	17.2	18.2	18.1	17.5	20.8	17.9
Customer Accounting and Collecting	19.9	19.1	19.9	20.3	18.5	18.9	17.5	16.1	16.5	14.8
Facilities Management	5.2	6.3	6.9	9.0	8.8	11.8	12.2	8.1	5.7	6.9
Sewer Lines and Pumping	14.6	13.4	13.9	13.7	12.5	12.5	13.4	12.9	13.2	12.0
Recreation Areas, Net	<u>5.7</u>	<u>5.6</u>	<u>5.3</u>	<u>5.2</u>	<u>5.3</u>	<u>5.5</u>	<u>5.7</u>	<u>8.4</u>	<u>9.0</u>	<u>8.6</u>
Total:	\$ 531.8	\$ 547.0	\$ 529.6	\$ 527.1	\$ 500.9	\$ 492.6	\$ 464.1	\$ 427.5	\$ 456.7	\$ 451.1

* Restated to meet current formatting.

⁽¹⁾ Includes \$21 million, \$2 million and \$6 million from the purchase of additional drought water supply in 2016, 2015 and 2014, respectively.

Sources: Financial Statements



Capacity Charge Funds

Capacity Charge Funds

Government Code Section 66013 requires local agencies that collect capacity charges to deposit and account for these fees in a separate capital facilities fund. In addition, local agencies are required to annual provide the information in this report to the public upon request. Government Code Section 66013 (b) (3) defines “*Capacity charge*” means a charge for public facilities at the time the charge is imposed or charges for new public facilities to be acquired or constructed in the future that are of proportional benefit to the person or property being charged, including supply or capacity contracts for rights or entitlements, real property interests, and entitlements and other rights of the local agency involving capital expense related to its use of the use of existing or new public facilities.”

Government Code Section 66013 (d) outlines the reporting requirements on the capital facilities funds and expenditures. Government Code Section 66013 (f) (2) exempts capacity charges that are used to pay existing debt service from the reporting requirements of Section 66013 (d). Two of the District’s capacity charges are used to pay existing debt service; therefore, they are exempt from the reporting requirements. For the purpose of enhancing transparency, the District has provided the reporting information on its capacity charges that are exempt from Section 66013 (d).

The District has the following capacity charge funds:

Future Water Supply (FWS) Fund. This fund collects System Capacity Charges for new water service connections to pay for their share of the debt service costs of FWS projects. Because the FWS Fund is used to pay the debt service on existing debt for FWS projects, it is exempt from the reporting requirements of Government Code Section 66013 (d). Changes in this fund for FY17 are shown in the table below.

FY17 Future Water Supply Fund	
Balance 7/1/16	19,169,374
Additions	15,890,366
Costs Applied	-15,890,366
Interest Earnings	153,195
Balance 6/30/17	19,322,569

System Capacity Buy-In Component. In addition to the FWS, the System Capacity Charges for new water service connections include a buy-in component to pay for the proportional share of the existing water system infrastructure. The revenue from the System Capacity Buy-In component is used to pay the debt service on existing water system infrastructure debt and is exempt from the reporting requirements of Government Code Section 66013 (d). As shown in the table below, the revenues from the System Capacity Buy-In Component are used directly to pay debt service; therefore, there is no fund balance nor interest earnings.

FY17 System Capacity Buy-In Component	
Balance 7/1/16	0
Additions	35,753,130
Costs Applied	-35,753,130
Interest Earnings	0
Balance 6/30/17	0

Wastewater Equipment Replacement Fund (ERF). This fund collects a fee for the amount of the capacity used by new wastewater connections and is used to pay for equipment replacements. Changes in this fund for FY17 are shown in the table below.

FY17 Wastewater Equipment Replacement Fund	
Balance 7/1/16	5,779,330
Additions	7,974,514
Costs Applied	-3,748,994
Interest Earnings	57,519
Balance 6/30/17	10,062,369

**Recorded Spending By Fund (Fiscal Year 2017)
(in Thousands)**

Debt Service Expenditure/Project	FY17 Expenditures	FY17 Expenditures Funded by Capacity Fees
<u>Future Water Supply Fund</u> Debt Service on Existing FWS projects	\$45,339	\$15,890
<u>System Capacity Buy-In Component</u> Debt Service on Existing Water System Infrastructure	123,903	35,573
<u>Wastewater Equipment Replacement Fund</u> Routine Capital Equipment Replacement (100% of Costs)	3,749	3,749

Projected Spending By Fund (Fiscal Year 2018)

Project	Projected FY18 Expenditures (\$thousands)	FY18 Projected Expenditures Funded by Capacity Fees (\$thousands)
<u>Future Water Supply Fund</u> Debt Service on Existing FWS projects	\$45,339	\$10,000
<u>System Capacity Buy-In Component</u> Debt Service on Existing Water System Infrastructure	123,903	17,000
<u>Wastewater Equipment Replacement Fund</u> Routine Capital Equipment Replacement (100% of Costs)	2,500	2,500



General Information and Purpose

Water System

Wastewater System

Trustee Contacts by Issue

Contacts at East Bay Municipal Utility District

EBMUD Web site

EAST BAY MUNICIPAL UTILITY DISTRICT
CONTINUING DISCLOSURE INFORMATION STATEMENT
(OPERATING AND FINANCIAL DATA PROVIDED IN ADDITION TO
AUDITED FINANCIAL STATEMENTS SEPARATELY FILED)

GENERAL INFORMATION AND PURPOSE

The purpose of this document is to provide information about the East Bay Municipal Utility District (the “District”). The information in this Continuing Disclosure Information Statement is provided in order to comply with the District’s contractual commitment established by certain continuing disclosure undertakings of the District, entered into in accordance with Securities and Exchange Commission Rule 15c2-12 (the “Rule”), to provide certain information specified therein. Certain information in this Continuing Disclosure Information Statement is not required to be provided by the District’s continuing disclosure undertakings. By providing such information, the District does not undertake or agree to provide such information in any future year. The District makes no representation that this Continuing Disclosure Information Statement contains all information material to a decision to purchase or sell any of the District’s bonds.

The information set forth herein has been furnished by the District and includes information obtained from other sources, which are believed to be reliable. Any statements herein involving matters of opinion or estimates, whether or not so expressly stated, are set forth as such and not as representations of fact, and no representation is made that such opinion or estimates will be realized. The information and expressions of opinion contained in this Continuing Disclosure Information Statement are provided as of the respective dates specified herein and are subject to change without notice, and the filing of this Continuing Disclosure Information Statement shall not, under any circumstances, create any implication that there has been no change in the affairs of the District or in the other matters described herein since the date as of which such information is provided. The District reserves the right to amend this information at any time.

Investors may obtain further information about the District by obtaining a copy of the District’s most recent official statement (which will contain information accurate as of the date of such official statement) from the Municipal Securities Rulemaking Board at <http://emma.msrb.org/>. Information requests may also be directed to:

Director of Finance
East Bay Municipal Utility District
375 Eleventh Street
Oakland, California 94607-4240
Phone: (510) 287-0231

This information statement provides information about the East Bay Municipal Utility District. Generally, this document relates to debt issued by the District under three security structures:

- **General Obligation Bonds**
- **Water System Revenue Bonds**
- **Wastewater System Revenue Bonds**

As of September 15, 2010, the District covenanted and agreed that it will not in the future issue any additional senior lien water system revenue bonds or senior lien wastewater system revenue bonds previously issued under the District's Senior Water Bond Resolution and Senior Wastewater Bond Resolution, respectively. Certain of the District's bonds that were once designated as Water System Subordinated Revenue Bonds and Wastewater System Subordinated Revenue Bonds, respectively, are now referred to as Water System Revenue Bonds and Wastewater System Revenue Bonds, respectively, in order to reflect that the lien securing the prior senior lien water system revenue bonds and prior senior lien wastewater system revenue bonds has been closed. There are no senior lien water system revenue bonds or senior lien wastewater system revenue bonds remaining outstanding.

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Debt Outstanding

The following Table 1 summarizes the District’s Water System outstanding long-term debt. All information is presented as of June 30, 2017.

TABLE 1: SUMMARY OF WATER SYSTEM DEBT OUTSTANDING

<i>Issue</i>	<i>Date of Issue</i>	<i>Last Maturity</i>	<i>Amount Issued</i>	<i>Outstanding June 30, 2017</i>
Water System Revenue Bonds				
Revenue Refunding Bonds, Series 2008A ⁽¹⁾	03/20/08	06/01/38	\$ 322,525,000	\$ 105,250,000
Revenue/Refunding Bonds, Series 2010A	02/03/10	06/01/36	192,830,000	7,020,000
Revenue Bonds, Series 2010B (Build America Bonds)	02/23/10	06/01/40	400,000,000	400,000,000
Revenue Refunding Bonds, Series 2012A	10/10/12	06/01/37	191,750,000	81,750,000
Revenue Refunding Bonds, Series 2012B	11/13/12	06/01/26	358,620,000	249,450,000
Revenue Refunding Bonds, Series 2013A	03/05/13	06/01/21	48,670,000	28,065,000
Revenue Refunding Bonds, Series 2014A	06/11/14	06/01/35	128,315,000	128,315,000
Revenue Refunding Bonds, Series 2014B	06/11/14	06/01/30	242,730,000	233,450,000
Revenue Bonds, Series 2014C	06/26/14	06/01/44	75,000,000	75,000,000
Revenue Refunding Bonds, Series 2015A	03/03/15	06/01/37	429,360,000	429,360,000
Revenue Bonds, Series 2015B (Green Bonds)	06/17/15	06/01/45	74,335,000	74,335,000
Revenue Bonds, Series 2015C	06/17/15	06/01/45	110,715,000	110,715,000
Revenue Bonds, Series 2017A (Green Bonds)	06/22/17	06/01/45	185,355,000	185,355,000
Revenue/Refunding Bonds, Series 2017B	06/22/17	06/01/37	<u>309,665,000</u>	<u>309,665,000</u>
Total Water System Revenue Bonds			\$3,069,870,000	\$2,417,730,000
Parity Debt:				
Safe Drinking Water State Revolving Fund Loan (Upper San Leandro Reservoir)	01/01/03	01/01/24	2,188,000	833,906 ⁽²⁾
State Water Resources Control Board Loan (East Bayshore Recycled Water Project)	05/22/08	04/01/28	<u>20,100,000</u>	<u>12,057,843</u>
Total Parity State Loans			\$ 22,288,000	\$ 12,891,749
Subordinate Debt:				
Commercial Paper Notes (Water Series)	Various	Various	<u>359,800,000⁽³⁾</u>	<u>359,800,000</u>
Total Debt			<u>\$3,451,958,000</u>	<u>\$2,790,421,749</u>

⁽¹⁾ Liquidity support currently provided by Standby Bond Purchase Agreements with Wells Fargo Bank, National Association (Series 2008A-1 Bonds and Series 2008A-4 Bonds, expiring December 9, 2019) and U.S. Bank National Association (Series 2008A-2 and Series 2008A-3 Bonds, expiring July 2, 2018). The District has entered into interest rate swap agreements that provide a hedge for the Series 2008A Bonds.

⁽²⁾ Reflects July 1, 2017 payment made in Fiscal Year 2016-17.

⁽³⁾ Commercial paper notes may be issued by the District in an amount up to the statutory limit described herein.

Source: The District.

The following Table 2 summarizes the District’s Wastewater System outstanding long-term debt. All information is presented as of June 30, 2017.

TABLE 2: SUMMARY OF WASTEWATER SYSTEM DEBT OUTSTANDING

	<i>Date of Issue</i>	<i>Last Maturity</i>	<i>Amount Issued</i>	<i>Outstanding June 30, 2017</i>
<u>Wastewater System Revenue Bonds:</u>				
Revenue/Refunding Bonds, Series 2010A	10/20/10	06/01/29	\$ 58,095,000	\$ 7,805,000
Revenue Bonds, Series 2010B (Build America Bonds)	10/20/10	06/01/40	150,000,000	150,000,000
Revenue Refunding Bonds, Series 2012A	10/10/12	06/01/37	20,000,000	20,000,000
Revenue Refunding Bonds, Series 2014A	08/28/14	06/01/31	82,150,000	72,040,000
Revenue Refunding Bonds, Series 2015A	03/03/15	06/01/38	68,370,000	68,370,000
Revenue Refunding Bonds, Series 2015B	03/03/15	06/01/30	2,795,000	2,475,000
Revenue/Refunding Bonds, Series 2017A	06/14/17	06/01/45	<u>69,420,000</u>	<u>69,420,000</u>
Total Wastewater System Revenue Bonds			\$450,830,000	\$390,110,000
<u>Subordinate Debt:</u>				
Commercial Paper Notes (Wastewater Series)	Various	Various	15,000,000 ⁽¹⁾	15,000,000
<u>General Obligation Bonds:</u>				
Refunding Series G	02/27/14	04/01/18	<u>14,160,000</u>	<u>3,515,000</u>
Total Debt			<u>\$479,990,000</u>	<u>\$408,625,000</u>

⁽¹⁾ Commercial paper notes may be issued in an amount up to the statutory limit described herein.
Source: The District.

Commercial Paper Program

The District has authorized two short-term commercial paper borrowing programs: an extendable municipal commercial paper program and a traditional commercial paper program.

Under the extendable municipal commercial paper program, commercial paper may be issued for the Water System or the Wastewater System at prevailing interest rates for periods of not more than 120 days from the date of issuance with the option by the District to extend the maturity for another 150 days. The extendable municipal commercial paper program is not supported by any liquidity or revolving credit agreement. As of June 30, 2017, \$15,000,000 principal amount of extendable commercial paper notes was outstanding under the District’s extendable municipal commercial paper program, consisting of \$0 of Extendable Municipal Commercial Paper Notes (Water Series) and \$15,000,000 of Extendable Municipal Commercial Paper Notes (Wastewater Series), with an average weighted remaining life to maturity of 46 days.

The District has further authorized a traditional commercial paper program as an additional or alternative short-term borrowing mechanism. Commercial paper notes under the traditional commercial paper program may be issued for the Water System (“Commercial Paper Notes (Water Series)”) or the Wastewater System (“Commercial Paper Notes (Wastewater Series)”) at prevailing interest rates for periods of not more than 270 days from the date of issuance. The District has secured liquidity arrangements from various banking institutions in order to provide an additional source of repayment for commercial paper notes issued pursuant to its traditional commercial paper program. As of June 30, 2017, \$359,800,000 principal amount of commercial paper notes was outstanding under the District’s

traditional commercial paper program, consisting of \$359,800,000 of Commercial Paper Notes (Water Series) and \$0 of Commercial Paper Notes (Wastewater Series), with an average weighted remaining life to maturity of 29 days.

Short-term indebtedness (including commercial paper notes under either of the above-mentioned programs, and/or other forms of bonds, notes or other evidences of short-term indebtedness, including bank credit) may be issued by the District under the authority of Chapter 7.5 of the Municipal District Act in a maximum aggregate principal amount outstanding at any one time of up to the lesser of either (1) the annual average of the total revenue for the three preceding years or, (2) 25% of the District's outstanding bonds.

The Water System and the Wastewater System commercial paper notes are payable from and secured by a pledge of the respective System's revenues on a basis subordinate to the Water System and Wastewater System revenue bonds.

The proceeds of the District's commercial paper notes may be used to finance or refinance the costs of (i) the planning, design, engineering, acquisition or construction of facilities for the storage, transmission or distribution of water; the storage, transmission or treatment of sewage or byproducts of sewage treatment; or the generation or transmission of electricity, (ii) the replacement of works of the District that have been damaged or demolished by reason of fire, flood, earthquake, sabotage or acts of God or the public enemy, (iii) any expenses or charges incurred in connection with the foregoing purposes and to reimburse the District for expenditures for any such purposes, or for the purpose of paying commercial paper notes issued for the foregoing purposes. There were no unused proceeds on June 30, 2017.

Investment Policy

The District's investment policy can be summarized as follows:

Funds of the District are invested in accordance with the Government Code of the State of California, the Municipal Utility District Act (the "MUD Act") and the District's Investment Policy. Investments shall be in securities with a range of maturities to provide a high rate of return on investments while providing adequate security and liquidity to pay demands when due. Criteria for selecting investments are to:

- adhere to the prudent investor standard; and
- conform with the Code and MUD. Act; and
- have the following objectives, in order of priority:
 1. *Safety* - The District's ability to recover principal and interest. Investments shall be made that will seek to insure the preservation of principal and interest and minimize risk to the greatest extent possible. It is the primary duty of the Treasurer to protect, preserve and maintain cash and investments on behalf of the District.
 2. *Liquidity* - The District's ability to have cash available when needed to support expenditure cycles and budgetary objectives.
 3. *Yield* – The District's ability to provide maximum return on the District's investments while conforming to the safety and liquidity criteria above.

4. *Diversity* – The District’s ability to maintain an investment portfolio that includes a range of security types for the District. In order to accomplish this, each investment option shall have defined limits on the maximum share of the portfolio, single issuer and single issue holdings, and maturity, rating and other restrictions where applicable.

Investment Options

The following are investment options for the District under the Government Code of the State of California.

1. US Treasury Notes, Bonds and Bills
2. The State of California Local Agency Investment Fund
3. Obligations issued by Federal Agencies
4. Banker’s Acceptances
5. Commercial Paper
6. Medium Term Corporate Notes
7. Collateralized Repurchase Agreements
8. Certificates of Time Deposit
9. Negotiable Certificates of Deposit
10. Money Market Mutual Funds
11. California Municipal Bonds
12. California Asset Management Program (CAMP)

The District does not enter into reverse repurchase agreements or otherwise borrow for purposes of investing. The District does not invest in highly volatile derivatives and other such securities. The District has, however, entered into interest rate swap transactions to hedge interest rate exposure on outstanding variable rate water system revenue bonds.

Pursuant to the District’s investment policy, all securities purchased from dealers and brokers are held in safekeeping by the trust department of a state or national bank on a payment vs. delivery basis. Collateral is delivered or assigned under a tri-party agreement for all repurchase agreements. Trade confirmations are reviewed for conformity to the original transaction by an individual other than the one who originated the transaction. Transactions are ratified by the General Manager and reported quarterly to the Finance/Administration Committee of the District’s Board of Directors.

District Population

The District occupies approximately 332 square miles in 20 incorporated and 15 unincorporated communities in both Alameda and Contra Costa Counties. It covers the eastern shore of San Francisco Bay from Carquinez Strait in the north to and including San Lorenzo in the south and it extends approximately 20 miles east, beyond the Oakland-Berkeley hills, into Contra Costa County.

The District’s Water System serves this entire area, reaching approximately 1.4 million people, or approximately 51% of the combined population of Alameda County and Contra Costa County. The District’s Wastewater System treats and disposes of the wastewater from an area within the District designated as Special District No. 1, serving approximately 685,000 people in an approximately 88 square mile area of the two counties, extending from Richmond in the north, southward to San Leandro.

Table 3 shows the population trends for the six largest cities in the District, Alameda and Contra Costa Counties and the State for the five years 2013 to 2017.

**TABLE 3: DISTRICT WATER SYSTEM SIX LARGEST CITIES
ALAMEDA, CONTRA COSTA COUNTIES AND CALIFORNIA
POPULATION TRENDS⁽¹⁾**

	2013	2014	2015	2016	2017
Oakland	407,660	412,290	417,993	423,191	426,074
Berkeley	116,355	117,705	119,246	119,997	121,238
Richmond	107,275	108,129	109,239	110,886	111,785
San Leandro	86,395	87,058	87,866	87,882	88,274
Alameda	76,086	76,792	77,653	79,338	79,928
Walnut Creek	66,964	67,665	68,346	70,340	70,974
Total Six Cities	860,735	869,639	880,343	891,634	898,273
Alameda County	1,567,091	1,588,348	1,611,318	1,629,233	1,645,359
Contra Costa County	1,083,721	1,097,644	1,111,899	1,126,824	1,139,513
California	38,238,492	38,572,211	38,915,880	39,189,035	39,523,613

⁽¹⁾ As of January 1 of each year.

Source: State of California, Department of Finance, *E-4 Population Estimates for Cities, Counties and the State, 2011-2017, with 2010 Census Benchmark*. Sacramento, California, May 2017.

Table 4 shows the population trends for the seven largest cities within the District’s Wastewater System service area, Alameda and Contra Costa Counties and the State for the five years 2013 to 2017. The District’s Wastewater System treats domestic, commercial and industrial wastewater for the six cities of Alameda, Albany, Berkeley, Emeryville, Oakland and Piedmont (the “six participating cities”), and for the Stege Sanitary District, which includes El Cerrito, Kensington and part of Richmond.

**TABLE 4: SEVEN LARGEST CITIES IN DISTRICT WASTEWATER SYSTEM SERVICE AREA
ALAMEDA, CONTRA COSTA COUNTIES AND CALIFORNIA
POPULATION TRENDS⁽¹⁾**

	2013	2014	2015	2016	2017
Oakland	407,660	412,290	417,993	423,191	426,074
Berkeley	116,355	117,705	119,246	119,997	121,238
Alameda	76,086	76,792	77,653	79,338	79,928
El Cerrito	23,894	24,082	24,249	24,490	24,600
Albany	18,660	18,672	18,827	18,905	18,988
Piedmont	10,953	11,052	11,174	11,227	11,283
Emeryville	10,541	10,763	10,900	11,730	11,854
Total Seven Cities	664,149	671,356	680,042	688,878	693,965
Alameda County	1,567,091	1,588,348	1,611,318	1,629,233	1,645,359
Contra Costa County	1,083,721	1,097,644	1,111,899	1,126,824	1,139,513
California	38,238,492	38,572,211	38,915,880	39,189,035	39,523,613

⁽¹⁾ As of January 1 of each year. Includes the six participating cities and El Cerrito, the largest incorporated portion of the Stege Sanitary District service area.

Source: State of California, Department of Finance, *E-4 Population Estimates for Cities, Counties and the State—2011-2017, with 2010 Census Benchmark*. Sacramento, California, May 2017.

Taxable Property/Assessed Valuations

Table 5 shows a five-year record of assessed valuations, secured roll levies and delinquencies for the taxable property included within the District.

**TABLE 5: TAXABLE PROPERTY WITHIN THE WATER SYSTEM
ASSESSED VALUATION AND TAX COLLECTION RECORD**

Fiscal Year	2013	2014	2015	2016	2017
ASSESSED VALUATION FOR TAXATION PURPOSES⁽¹⁾⁽²⁾					
Alameda County	\$ 98,956,612,301	\$103,645,001,482	\$112,041,019,464	\$119,325,397,941	\$126,352,473,480
Contra Costa County	<u>83,087,433,870</u>	<u>89,671,760,809</u>	<u>96,462,650,792</u>	<u>102,552,109,724</u>	<u>107,515,120,243</u>
TOTAL	\$182,044,046,171	\$193,316,762,291	\$208,503,670,256	\$221,877,507,665	\$233,867,593,723
COUNTY 1% ALLOCATED PROPERTY TAX REVENUES TO DISTRICT⁽³⁾					
Alameda County	\$14,417,608	\$13,669,336	\$14,943,333	\$16,136,648	\$17,025,444
Contra Costa County	<u>12,018,366</u>	<u>11,823,055</u>	<u>12,978,787</u>	<u>13,732,785</u>	<u>14,709,572</u>
TOTAL	\$26,435,974	\$25,492,391	\$27,922,120	\$29,869,433	\$31,735,016
DELINQUENCIES⁽⁴⁾					
Delinquent June 30					
Amount	\$260,612	\$211,831	\$198,418	\$239,980	\$236,737
Percent	0.99%	0.83%	0.71%	0.80%	0.75%

⁽¹⁾ Net of all exemptions except homeowner’s exemptions, the taxes on which are paid by the State. All valuations are stated on a 100% of full cash value basis as defined by law. Assessed valuations shown include redevelopment project area incremental valuations.

⁽²⁾ Minor differences in assessed valuation numbers from amounts previously reported can occur from time to time due to a change in source data used.

⁽³⁾ Net basis excluding all exemptions. Levies reflect the tax reductions effected by the adoption of Article XIII A of the State Constitution in 1978, the “Jarvis-Gann Initiative.” For Alameda County, receipts include District’s share of prior years’ delinquencies when collected.

⁽⁴⁾ Amounts apply to Alameda County only, since Contra Costa County guarantees 100% payment of the District’s secured roll levy. The delinquency percentages are calculated based on the two counties’ secured roll levies.

Sources: Reports of the Auditor-Controller’s Offices of Alameda and Contra Costa Counties, table data as compiled by the District.

Table 6 shows a five-year record of assessed valuations, secured roll levies and delinquencies for the taxable property included within Special District No. 1.

**TABLE 6: TAXABLE PROPERTY WITHIN THE WASTEWATER SYSTEM
ASSESSED VALUATION AND TAX COLLECTION RECORD**

Fiscal Year	2013	2014	2015	2016	2017
ASSESSED VALUATION FOR TAXATION PURPOSES⁽¹⁾⁽²⁾					
Alameda County	\$75,005,826,233	\$79,134,556,452	\$85,882,609,820	\$91,776,237,397	\$97,458,907,771
Contra Costa County	<u>4,436,844,975</u>	<u>4,842,733,668</u>	<u>5,290,848,742</u>	<u>5,674,452,805</u>	<u>5,976,259,924</u>
TOTAL	\$79,442,671,208	\$83,977,290,120	\$91,173,458,562	\$97,450,690,202	\$103,435,167,695
COUNTY 1% ALLOCATED PROPERTY TAX REVENUES TO DISTRICT⁽³⁾					
Alameda County	\$4,111,766	\$3,557,107	\$3,656,005	\$4,286,754	\$4,477,354
Contra Costa County	<u>301,272</u>	<u>973,382</u>	<u>323,779</u>	<u>353,271</u>	<u>380,941</u>
TOTAL	\$4,413,038	\$4,530,489	\$3,979,784	\$4,640,025	\$4,858,295
DISTRICT G. O. BOND AD VALOREM TAX LEVY					
Alameda County	\$4,712,548	\$5,054,513	\$4,254,983	\$3,114,158	\$2,703,444
Contra Costa County	<u>282,625</u>	<u>296,047</u>	<u>233,603</u>	<u>184,418</u>	<u>161,770</u>
TOTAL	\$4,995,173	\$5,350,560	\$4,488,586	\$3,298,576	\$2,865,215
TOTAL PROPERTY TAX/AD VALOREM TAX REVENUES					
Alameda County	\$8,824,314	\$8,611,620	\$7,910,988	\$7,400,912	\$7,180,798
Contra Costa County	<u>583,897</u>	<u>1,269,429</u>	<u>557,382</u>	<u>537,689</u>	<u>542,711</u>
TOTAL	\$9,408,211	\$9,881,049	\$8,468,370	\$7,938,601	\$7,723,510
DELINQUENCIES⁽⁴⁾					
Delinquent June 30					
Amount	\$172,212	\$143,118	\$109,278	\$112,750	\$105,290
Percent	1.83%	1.45%	1.27%	1.42%	1.4%

⁽¹⁾ Net of all exemptions except homeowner's exemptions, the taxes on which are paid by the State. All valuations are stated on a 100% of full cash value basis as defined by law. Assessed valuations shown include redevelopment project area incremental valuations.

⁽²⁾ Minor differences in assessed valuation numbers from amounts previously reported can occur from time to time due to a change in source data used.

⁽³⁾ Net basis excluding all exemptions. Levies reflect the tax reductions effected by the adoption of Article XIII A of the State Constitution in 1978, the "Jarvis-Gann Initiative." For Alameda County, receipts include District's share of prior years' delinquencies when collected.

⁽⁴⁾ Amounts apply to Alameda County only, since Contra Costa County guarantees 100% payment of the District's secured roll levy. The delinquency percentages are calculated based on the two counties' secured roll levies.

Sources: Reports of the Auditor-Controller's Offices of Alameda and Contra Costa Counties, table data as compiled by the District.

WATER SYSTEM**Material Changes in Water Supply**

There have been no material changes in the District's primary sources of water supply. However, the availability of these sources is impacted by California hydrology, which can be highly variable from year to year. Following four consecutive years of drought from 2012 through 2015, in Water Year 2016 (a Water Year begins on October 1 and ends on the following September 30), there was near normal runoff and slightly above average precipitation in the District's Mokelumne watershed, the main source of its water supply. Water Year 2017 was the wettest runoff year on record in the Mokelumne Watershed. The District began Water Year 2018, which commenced on October 1, 2017, with a provisional estimate of 643,000 acre-feet in total system storage (Pardee, Camanche and East Bay terminal reservoirs), representing 83% of capacity or 113% of average.

Additional information regarding the District's water supply may be obtained from the District's website at <http://www.ebmud.com>.

Gross Water Production

Annual water production in the District since Fiscal Year 2008 is shown in Table 7 below. Note that this information was re-labeled as “production” rather than “consumption” in Fiscal Year 2012 to more accurately characterize the data. Water production includes the total water produced at the District’s water treatment plants and water moved through the distribution system that was delivered to customers, as well as water lost through leaks in the transmission system, water used in the treatment process, evaporation, water used for fighting fires and other miscellaneous causes.

TABLE 7: WATER PRODUCTION BY FISCAL YEAR⁽¹⁾

<i>Fiscal Year</i>	<i>Annual Production (Acre-Feet)</i>	<i>Annual Production (Thousands of Ccf)</i>	<i>Annual Production (Million Gallons)</i>	<i>Average Production Per Day (Million Gallons per Day)</i>
2008	230,363	100,346	75,059	205
2009	203,423	88,611	66,281	182
2010	195,158	85,011	63,588	174
2011	194,642	84,786	63,420	174
2012	200,220	87,216	65,242	178
2013	205,889	89,685	67,089	184
2014	209,467	91,244	68,255	184
2015	174,411	75,974	56,832	156
2016	162,562	70,812	52,971	145
2017	173,641	75,638	56,581	155

⁽¹⁾ Water production includes water lost through leaks in the transmission system, used in the treatment process, evaporation, fighting fires and other miscellaneous causes, which approximates 10.0% of gross production.

Source: The District.

Sources of Funds/Summary of Revenues and Contributions

The following Table 8 sets forth the District’s Water System sources of funds for the five most recent Fiscal Years ended June 30, 2017. The sources of funds in the table below include certain funds which do not constitute Subordinated Water Revenues for purposes of the Indenture. Subordinated Water Revenues include all charges received for, and all other income and receipts derived by the District from, the operation of the Water System or arising from the Water System, which includes, without limitation, the District’s water rates, system capacity charge, and prior to its sunset effective July 1, 2015, its seismic surcharge, as well as investment income, less Operation and Maintenance Costs. Property taxes are applied to reduce Operation and Maintenance Costs and are not pledged to the repayment of the Water System Revenue Bonds. Contributions received for facility relocations, main extensions and service installations, and grants and other reimbursements, which are restricted to use for the specified purposes are not included in Subordinated Water Revenues for purposes of the Indenture. Only Subordinated Water Revenues are pledged to the payment of the Water System Revenue Bonds.

**TABLE 8: WATER SYSTEM SOURCES OF FUNDS/SUMMARY OF REVENUES AND CONTRIBUTIONS
FIVE FISCAL YEARS ENDED JUNE 30, 2017
(MILLIONS)**

	<i>Fiscal Year Ending June 30</i>				
	<i>2013</i>	<i>2014</i>	<i>2015</i>	<i>2016</i>	<i>2017</i>
Operating Revenue and Other Income:					
Water sales	\$336.1	\$367.5	\$362.1	\$421.2	\$420.3
Power sales	3.6	1.4	2.2	3.5	7.8
Interest ⁽¹⁾	3.7	1.7	3.5	2.2	3.3
Taxes	26.4	25.5	27.9	29.9	32.0
Other ⁽²⁾	<u>12.8</u>	<u>19.9</u>	<u>15.3</u>	<u>14.0</u>	<u>14.9</u>
Total Operating Revenue and Other Income ⁽⁶⁾	<u>\$382.6</u>	<u>\$416.0</u>	<u>\$411.0</u>	<u>\$470.8</u>	<u>\$478.3</u>
Capital Contributions:					
Seismic Surcharge ⁽³⁾	\$ 20.6	\$ 22.6	\$ 22.2	\$ 0.0	\$ 0.0
System Capacity Charge ⁽⁴⁾	22.7	20.4	29.7	39.3	51.5
Earned contributions on construction ⁽⁵⁾	4.5	5.2	17.1	17.0	14.4
Grants and reimbursements	<u>8.0</u>	<u>0.8</u>	<u>2.5</u>	<u>4.4</u>	<u>10.1</u>
Total Contributions ⁽⁶⁾	<u>\$ 55.8</u>	<u>\$ 49.0</u>	<u>\$ 71.5</u>	<u>\$ 60.8</u>	<u>\$ 75.9</u>
Total⁽⁶⁾	<u>\$438.4</u>	<u>\$465.0</u>	<u>\$482.5</u>	<u>\$531.5</u>	<u>\$554.2</u>

⁽¹⁾ Includes interest earnings on Water System Fund, including earnings on proceeds of the District’s Water System Revenue Bonds.

⁽²⁾ Other Revenues include receipts from property sales, rental of District property, fees for use of District recreational facilities and other miscellaneous receipts. Beginning in Fiscal Year 2010, Other Revenues also includes interest subsidy payments received in each year by the District in connection with its Series 2010B Bonds which are Build America Bonds. Excludes reimbursements and other receipts applied directly to operating expenses.

⁽³⁾ The sunset of the seismic surcharge became effective July 1, 2015 and beginning with Fiscal Year 2016 the seismic surcharge is no longer being charged.

⁽⁴⁾ System capacity charge collections presented in the table above include the “buy-in” portion and the “future water supply” portion of SCC charges when collected.

⁽⁵⁾ Includes contributions for facility relocations, main extensions and service installations.

⁽⁶⁾ Totals may not add due to rounding.

Source: The District.

Water Sales Revenues, Number of Connections (Accounts) and Metered Consumption

The following Table 9 sets forth water sales revenues, consumption and number of connections by customer type.

**TABLE 9: WATER SALES REVENUES, CONSUMPTION AND NUMBER OF CONNECTIONS
BY CUSTOMER TYPE**

FISCAL YEAR ENDED JUNE 30, 2017

<i>Type of Customer</i>	<i>Sales Revenues⁽¹⁾</i>	<i>Percent of Revenues</i>	<i>Consumption (MGD)</i>	<i>Percent of Consumption</i>	<i>Number of Connections⁽²⁾</i>	<i>Percent of Connections</i>
Residential	\$233,236,065	55.5%	67.6	50.9%	348,331	89.2%
Commercial	135,242,982	32.2	44.5	33.5	38,174	9.8
Industrial	35,653,810	8.5	15.1	11.3	1,692	0.4
Public Authority	16,160,394	3.8	5.6	4.2	2,375	0.6
Total ⁽³⁾	<u>\$420,293,252</u>	<u>100.0%</u>	<u>132.7</u>	<u>100.0%</u>	<u>390,572</u>	<u>100.0%</u>

⁽¹⁾ Does not include account establishment fees, recycled water fees and certain other miscellaneous charges.

⁽²⁾ Connections as of June 30, 2017.

⁽³⁾ Totals may not add due to rounding.

Source: The District.

Rates and Charges

From Fiscal Year 2013 through Fiscal Year 2017, residential rates for water service have increased by an average of approximately 7.9% per Fiscal Year. The overall average rate increase, which includes the rate increases for all customer classes and rate components, for the same period was approximately 8.1%. The District’s most recent increases in water service rates and charges included the adoption on July 11, 2017 of overall average rate increases (including meter, volume, elevation charges, non-potable (recycled) water and private fire service) of 9.25% for Fiscal Year 2018 and 9.00% for Fiscal Year 2019. Table 10 sets forth the average residential and overall average rate increases enacted by the District for the five Fiscal Years 2013 through 2017, as well as the average residential and overall average rate increases most recently adopted for Fiscal Years 2018 and 2019:

TABLE 10: WATER RATE INCREASES

<i>Fiscal Year</i>	<i>Average Residential Rate Increase</i>	<i>Overall Average Rate Increase⁽¹⁾</i>
2013	6.00%	6.00%
2014	9.79	9.75
2015	9.43	9.50
2016 ⁽²⁾	7.35 ⁽²⁾	8.00 ⁽²⁾
2017 ⁽³⁾	7.02 ⁽³⁾	7.00 ⁽³⁾
2018 ⁽⁴⁾	9.21 ⁽⁴⁾	9.25 ⁽⁴⁾
2019 ⁽⁴⁾	8.99 ⁽⁴⁾	9.00 ⁽⁴⁾

⁽¹⁾ Overall average rate increase includes water rates for all customer classes (including residential) and water rate components.

⁽²⁾ Fiscal Year 2016 rate increase is subsequent to cost of service adjustments. As a result of certain adjustments to individual meter, volume, elevation, non-potable and private fire service rates and charges designed to implement the results of an updated cost of service study completed by the District, different rate increases are applicable for each customer class and for individual customers within each customer class depending on water use and meter size. Rate increase excludes drought surcharge.

⁽³⁾ Excludes drought surcharge.

⁽⁴⁾ Fiscal Year 2018 and 2019 rate increases were adopted on July 11, 2017. The rate increases for Fiscal Year 2018 took effect on bills issued on or after July 12, 2017 and the rate increase for Fiscal Year 2019 will take effect on bills issued on or after July 1, 2018.

Source: The District.

Table 11 shows the rate schedule effective July 12, 2017 for Fiscal Year 2018. The monthly water bill for a typical residential account consuming 800 cubic feet (8 Ccf or 5,980 gallons) per month, excluding any drought surcharge, is \$51.49, which represents an average increase of 9.2% for residential customers from Fiscal Year 2017 rates.

**TABLE 11: WATER SYSTEM RATES AND CHARGES⁽¹⁾
EFFECTIVE JULY 12, 2017**

Service Charge	
<i>Meter Size</i>	<i>Per Month</i>
5/8-inch and 3/4-inch	\$22.60
1-inch	34.13
1 1/2-inch	62.98
2-inch	97.58
Over 2-inch	Various

Charge for Water Delivered	
<i>Rate Class</i>	<i>Per Hundred Cubic Feet (Ccf)</i>
Basic Rate – Single Family ⁽¹⁾	\$3.45
Basic Rate – Multi Family	4.87
Basic Rate – Other	4.85
Elevation Band Surcharges ⁽²⁾ –	
Band 2: Pressure Zones 2 through 5	0.70
Band 3: Pressure Zones 6 and higher	1.45

⁽¹⁾ Applies to first 172 gallons per day (7 Ccf) for single family residential customers. Additional consumption by residential customers is billed at \$4.74 per Ccf for consumption between 173 and 393 gallons per day (16 Ccf), and \$6.27 for all water used in excess of 393 gallons per day. For a household using 8 Ccf in Fiscal Year 2018, the water usage charge for the first 7 Ccf at the first tier rate of \$3.45 per Ccf would be \$24.15 and the water usage charge for the additional 1 Ccf at the second tier rate of \$4.74 per Ccf would be \$4.74, for a total charge for water delivered of \$28.89; the monthly service charge would be \$22.60, resulting in a total monthly bill of \$51.49.

⁽²⁾ The water elevation surcharge provides for the increased power and facility costs needed to pump water to locations (zones) 200 or more feet above sea level.

Source: The District.

In June 2015, in connection with the adoption of rates and charges for Fiscal Years 2016 and 2017, the District’s Board of Directors adopted drought surcharges that may be implemented in the event of ongoing drought conditions when the Board declares specific drought stages pursuant to its water shortage contingency plan. The drought surcharges, corresponding to increasingly severe stages of water shortages, are applied to each unit of water used during the billing period, and are calculated to recover costs of providing supplemental water, increased costs of water shortage-related customer service and loss of revenue. The District’s adopted rates and charges for Fiscal Years 2018 and 2019 include an update to the system of drought surcharges (although as noted below, commencing with bills issued on and after July 1, 2016, there are no drought surcharges currently in effect for District customers). The staged system of drought surcharges and expected water use restrictions and supplemental supply needs for each of the four drought stages are summarized below.

Staged System of Drought Surcharges

Drought Stage based on Total System Storage:	0	1	2	3	4
Demand Reduction	--	Voluntary 0-15%	Voluntary 0-15%	Mandatory Up to 15%	Mandatory ≥ 15%
Supplemental Supplies	--	--	Up to 35,000 acre-feet	35,000- 65,000 acre-feet	≥ 65,000 acre-feet
Rates and Charges	Normal rates	Normal rates	Normal rates + Up to 8% surcharge	Normal rates + Up to 20% surcharge	Normal rates Up to 25% surcharge

The District’s adopted schedule of drought surcharges is set forth below. The surcharges do not apply to non-potable water.

Drought Surcharges on Total Water Flow Charge for Water Delivered

	Maximum Applicable Drought Surcharge Percentage in 4 Stages			
	1	2	3	4
All potable water flow charges	0%	8%	20%	25%

In the previous bond disclosure, the District reported that the system of drought rates included a penalty on excessive water use in stages 3 and 4 to be applicable to the single family residential customer class. Pursuant Resolution 34081-16, adopted by the Board on April 26, 2016, the Board of Directors suspended the imposition of penalties on excessive water use in stages 3 and 4, applicable to single family residences. The suspension of the implementation of excessive water use penalties took effect on May 3, 2016.

Commencing with bills issued on and after July 1, 2016, there are no drought surcharges currently in effect for District customers.

Historical Operating Results

Table 12 sets forth the historical operating results and the calculation of the debt service coverage ratio for the Water System for each of the last five Fiscal Years.

**TABLE 12: WATER SYSTEM HISTORICAL OPERATING RESULTS AND DEBT SERVICE COVERAGE⁽¹⁾
FISCAL YEARS 2013 THROUGH 2017**

	2013	2014	2015	2016	2017
WATER REVENUES⁽²⁾:					
Water Sales ⁽³⁾	\$336,065,516	\$367,547,268	\$362,135,681	\$421,239,645	\$420,293,252
Power Revenue	3,595,948	1,380,348	2,209,938	3,524,767	7,806,642
Interest	3,731,406	1,691,927	3,449,378	2,196,001	3,345,710
SCC Revenue ⁽⁴⁾	22,673,134	20,365,047	29,725,090	39,323,341	51,463,496
Seismic Rate Surcharge ⁽⁵⁾	20,536,924	22,628,261	22,258,683	38,793	9,270
Other Revenue ⁽⁶⁾	<u>12,842,012</u>	<u>19,937,710</u>	<u>15,291,924</u>	<u>13,972,663</u>	<u>14,852,674</u>
TOTAL WATER REVENUES	<u>\$399,444,940</u>	<u>\$433,550,561</u>	<u>\$435,070,694</u>	<u>\$480,295,210</u>	<u>\$497,771,044</u>
RATE STABILIZATION FUND TRANSFERS:					
Deposits to the Rate Stabilization Fund	\$ 0	\$(35,000,000)	\$(10,000,000)	\$ 0	\$ 0
Withdrawals from Rate Stabilization Fund for Inclusion in revenues	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
WATER REVENUES AFTER RATE STABILIZATION TRANSFER	<u>\$399,444,940</u>	<u>\$398,550,561</u>	<u>\$425,070,694</u>	<u>\$480,295,210</u>	<u>\$497,771,044</u>
WATER OPERATION & MAINTENANCE COSTS:					
Operating Expenses	\$197,249,098	\$213,692,428	\$210,786,463	\$238,624,710	\$219,844,980
(Less Tax Receipts) ⁽⁷⁾	<u>(26,435,974)</u>	<u>(25,492,391)</u>	<u>(27,922,120)</u>	<u>(29,869,433)</u>	<u>(31,971,089)</u>
TOTAL WATER OPERATION & MAINTENANCE COSTS	<u>\$170,813,124</u>	<u>\$188,200,037</u>	<u>\$182,864,343</u>	<u>\$208,755,277</u>	<u>\$187,873,891</u>
NET WATER REVENUES	\$228,631,816	\$210,350,524	\$242,206,351	\$271,539,933	\$309,897,153
PARITY DEBT SERVICE:					
Water System Revenue Bonds ⁽⁸⁾	\$132,270,442	\$125,016,887	\$144,320,119	\$162,809,748	\$164,213,889
Parity State Loans	<u>1,400,105</u>	<u>1,400,107</u>	<u>1,400,108</u>	<u>1,400,108</u>	<u>1,400,108</u>
TOTAL PARITY DEBT SERVICE	\$133,670,547	\$126,416,994	\$145,720,227	\$164,209,856	\$165,613,997
PARITY DEBT SERVICE COVERAGE	1.71	1.66	1.66	1.65	1.87
SUBORDINATE WATER SYSTEM DEBT SERVICE⁽⁹⁾	\$ 687,369	\$ 13,562,675	\$ 335,794	\$ 340,580	\$ 3,627,676
TOTAL PARITY AND SUBORDINATE DEBT SERVICE	\$134,357,916	\$139,979,669	\$146,056,021	\$164,550,436	\$169,241,673
TOTAL PARITY AND SUBORDINATE DEBT SERVICE COVERAGE	1.70	1.50	1.66	1.65	1.83

⁽¹⁾ Calculated in accordance with the Indenture as footnoted.

⁽²⁾ Revenues exclude grant receipts, taxes, and certain developer contributions which are treated as contributions (not Water Revenues).

⁽³⁾ Reflects average daily billed consumption of 168.4 MGD in Fiscal Year 2013, 167.5 MGD in Fiscal Year 2014, 148.5 MGD in Fiscal Year 2015, 128.0 MGD in Fiscal Year 2016, and 132.7 MGD in Fiscal Year 2017.

⁽⁴⁾ Prior to Fiscal Year 2016, System Capacity Charge (“SCC”) Revenues presented in the table above include the “buy-in” portion of SCC charges when collected and the “future water supply” portion of SCC charges when applied from the Future Water Supply Fund to offset such debt service costs. SCC Revenues are capitalized and are not recognized as operating revenues for purposes of the District’s audited financial statements.

⁽⁵⁾ Seismic rate surcharge revenues are capitalized and are not recognized as operating revenues for purposes of the District’s audited financial statements. The sunset of the seismic surcharge became effective July 1, 2015 and beginning with Fiscal Year 2016 the seismic surcharge is no longer being collected. However, a small amount of seismic surcharge collections were made in Fiscal Years 2016 and 2017.

⁽⁶⁾ Includes BABs Interest Subsidy Payments received in connection with the Series 2010B Bonds which are Build America Bonds.

⁽⁷⁾ Operation and Maintenance Costs exclude those expenses paid from District’s share of countywide 1% property tax revenues. Under current District policy, District’s share of countywide 1% property tax revenues are used to pay for operations allocable to maintenance of fire protection capacity.

⁽⁸⁾ Includes net swap payments. Debt service on the Series 2010B Bonds is gross of the BABs Interest Subsidy Payments received by the District.

⁽⁹⁾ Includes outstanding Water System commercial paper notes and certain federal and State subordinate loans (which subordinate loans have been retired). Commercial paper notes debt service includes interest and a one-time principal pay down in Fiscal Year 2014 of \$13.1 million.

Source: The District.

WASTEWATER SYSTEM**Wastewater Flows**

Table 13 presents a ten-year record of wastewater flows through the District's Main Wastewater Treatment Plant, expressed as the average daily flow for each Fiscal Year.

**TABLE 13: AVERAGE DAILY WASTEWATER FLOW
(MILLION GALLONS PER DAY)**

<i>Fiscal Year Ended June 30</i>	<i>Flow</i>
2008	69
2009	67
2010	68
2011	70
2012	62
2013	61
2014	56
2015	55
2016	56
2017	69

Source: The District.

Sources of Funds/Summary of Revenues and Contributions

The following Table 14 sets forth the District's Wastewater System sources of funds for the five most recent Fiscal Years ended June 30, 2017. The sources of funds in the table below include certain funds that do not constitute Subordinated Wastewater Revenues for purposes of the Indenture. Subordinated Wastewater Revenues include all charges received for, and all other income and receipts derived by the District from, the operation of the Wastewater System or arising from the Wastewater System, which includes, without limitation, the District's dry weather user charges, wet weather facilities charges, wastewater capacity fees and Resource Recovery program revenues, as well as investment income, less Operation and Maintenance Costs. Property taxes are applied to reduce Operation and Maintenance Costs or to pay debt service on the District's outstanding general obligation bonds and are not pledged to the repayment of the Wastewater System Revenue Bonds. Certain grants and contributions earned on construction which are restricted to use for specified purposes are not included in Subordinated Wastewater Revenues for purposes of the Indenture. Only Subordinated Wastewater Revenues are pledged to the payment of the Wastewater System Revenue Bonds.

**TABLE 14: WASTEWATER SYSTEM SOURCES OF FUNDS
FIVE FISCAL YEARS ENDED JUNE 30, 2017
(MILLIONS)**

	2013	2014	2015	2016	2017
Operating Revenue and Other Income:					
Dry Weather User Charges	\$ 58.8	\$ 61.8	\$ 65.1	\$ 66.0	\$ 70.0
Wet Weather Facilities Charges	18.3	19.4	21.8	21.9	23.1
Resource Recovery	9.2	10.6	11.3	11.6	11.9
Interest ⁽¹⁾	0.3	0.2	0.3	0.4	0.7
Taxes ⁽²⁾	9.4	9.9	8.5	7.9	7.8
Other Revenues ⁽³⁾	<u>4.1</u>	<u>6.3</u>	<u>5.6</u>	<u>5.2</u>	<u>5.2</u>
Total Revenues	\$100.1	\$108.2	\$112.6	\$113.0	\$118.7
Capital Contributions:					
Wastewater Capacity Fees	1.3	0.8	2.8	3.1	8.0
Earned contributions on construction	0.0	0.0	0.0	0.7	0.7
Grants	<u>0.3</u>	<u>0.4</u>	<u>0.3</u>	<u>0.3</u>	<u>0.2</u>
Total Contributions	\$ 1.6	\$ 1.2	\$ 3.1	\$ 4.1	\$ 8.9
TOTAL	<u>\$101.7</u>	<u>\$109.4</u>	<u>\$115.7</u>	<u>\$117.1</u>	<u>\$127.6</u>

⁽¹⁾ Includes interest earnings on Wastewater System Fund, including earnings on proceeds of the District’s Wastewater System Revenue Bonds.

⁽²⁾ Includes the District’s share of 1% countywide property tax and the *ad valorem* tax levied for repayment of Special District No. 1’s general obligation bonds.

⁽³⁾ Other Revenues includes interest subsidy payments received by the District in connection with its Series 2010B Bonds which are Build America Bonds. Other Revenues also includes revenues received from the sale of energy to the utility grid. Other Revenues excludes reimbursements and certain other receipts applied directly to operating expenses.

Source: The District.

Wastewater User Charge Revenues and Number of Connections by User Type

Table 15 sets forth a breakdown of the District’s dry weather user charge revenues and number of connections by customer class for the Fiscal Year ended June 30, 2017.

**TABLE 15: WASTEWATER DRY WEATHER USER CHARGE REVENUES
AND NUMBER OF CONNECTIONS BY USER TYPE
FISCAL YEAR ENDED JUNE 30, 2017**

<i>Type of Customer</i>	<i>User Charge Revenues</i>	<i>Percent of Revenues</i>	<i>Number of Connections</i>	<i>Percent of Accounts</i>
Residential	\$38,382,299	54.8%	158,825	89.7%
Commercial	26,265,230	37.5	16,818	9.5
Industrial	1,937,852	2.8	702	0.4
Public	<u>3,413,992</u>	<u>4.9</u>	<u>740</u>	<u>0.4</u>
Total ⁽²⁾	<u>\$69,999,373</u>	<u>100.0%</u>	<u>177,085</u>	<u>100.0%</u>

⁽¹⁾ Dry weather user charges collected on the water bill includes permit fees, pollution prevention fees and late fees. Does not include wet weather facilities charges, Resource Recovery treatment fees or private sewer lateral compliance certificate fees.

⁽²⁾ Totals may not add due to rounding.

Source: The District.

Rates and Charges

From Fiscal Year 2013 through Fiscal Year 2017, total annual residential wastewater charges imposed by the District have increased by an average of approximately 5.3% per Fiscal Year. The overall average rate increase, which includes the rate increases for all customer classes and rate components (including the District treatment and disposal charges, wet weather facilities charges and San Francisco Bay Pollution Prevention Fee), for the same period was approximately 6.7%. The District's most recent increases in wastewater service rates and charges included the adoption on July 11, 2017 of system-wide rate increases of 5.0% and 5.0% for Fiscal Years 2018 and 2019, respectively. Table 16 sets forth the average residential rate increases and overall average rate increases enacted by the District for Fiscal Years 2013 through 2017, as well as the average residential and overall average rate increases most recently adopted for Fiscal Years 2018 and 2019:

TABLE 16: WASTEWATER RATE INCREASES

<i>Fiscal Year</i>	<i>Average Residential Rate Increase</i>	<i>Overall Average Rate Increase⁽¹⁾</i>
2013	5.93%	6.00%
2014	8.24	9.00
2015	8.29	8.50
2016 ⁽²⁾	(0.81) ⁽²⁾	5.00 ⁽²⁾
2017	4.88	5.00
2018 ⁽³⁾	4.87 ⁽³⁾	5.00 ⁽³⁾
2019 ⁽³⁾	5.05 ⁽³⁾	5.00 ⁽³⁾

⁽¹⁾ Overall average rate increase includes wastewater treatment and disposal charges, wet weather facilities charges and San Francisco Bay Pollution Prevention Fees for all customer classes (including residential).

⁽²⁾ Fiscal Year 2016 rate increase is subsequent to cost of service adjustments. As a result of certain adjustments to individual wastewater component charges for wastewater flow, strength, inflow and infiltration designed to implement the results of the updated cost of service study completed by the District, different rate increases are applicable for each customer class and individual customers within each customer class depending on wastewater flow and strength and by parcel size.

⁽³⁾ Fiscal Year 2018 and 2019 rate increases were adopted on July 11, 2017. The rate increases for Fiscal Year 2018 took effect on bills issued on or after July 12, 2017 and the rate increase for Fiscal Year 2019 will take effect on bills issued on or after July 1, 2018.

Source: The District.

The District’s current (Fiscal Year 2018) wastewater rates are set forth in Table 17 below.

**TABLE 17: WASTEWATER SYSTEM RATES AND CHARGES
EFFECTIVE JULY 12, 2017**

Residential Charge:		
Service Charge (per account)	\$ 5.83	per month
Strength Charge (per dwelling unit)	8.02	per month
Flow Charge	1.14	per 100-cubic foot unit, to a maximum of 9 units
San Francisco Bay Pollution Prevention Fee	0.20	per month per dwelling unit
Non-Residential Charge:		
Service Charge (per meter)	5.83	per month
Treatment Charge	1.29-15.22	per unit, depending on the nature of the business
San Francisco Bay Pollution Prevention Fee	5.48	per month
Minimum Monthly Charge:		
Duplex	21.87	per month
Triplex	29.89	per month
Permit Accounts:		
Flow Charge	1.139	per hundred cubic feet
CODf	0.337	per pound of discharge
Suspended Solids	0.492	per pound of discharge
Wet Weather Facilities Charge:		
Small lot (0-5,000 sq. ft.)	98.80	per year per land parcel
Medium lot (5,001-10,000 sq. ft.)	154.34	per year per land parcel
Large lot (>10,000 sq. ft.)	352.80	per year per land parcel

Source: The District.

Historical Operating Results

Table 18 sets forth the historical operating results and the calculation of the debt service coverage ratio for the Wastewater System for each of the last five Fiscal Years.

**TABLE 18: WASTEWATER SYSTEM HISTORICAL OPERATING RESULTS
AND DEBT SERVICE COVERAGE⁽¹⁾
FISCAL YEARS 2013 THROUGH 2017**

	2013	2014	2015	2016	2017
WASTEWATER REVENUES⁽²⁾					
Dry Weather User Charges	\$58,783,692	\$61,774,568	\$ 65,107,788	\$ 65,916,031	\$ 69,999,373
Wet Weather Facilities Charges	18,320,550	19,388,979	21,809,317	21,918,034	23,104,818
Interest	368,315	223,672	271,736	359,743	654,595
Resource Recovery	9,226,468	10,570,194	11,309,181	11,625,497	11,904,249
Wastewater Capacity Fees	1,278,961	805,590	2,785,820	3,142,514	7,969,321
Other Revenue ⁽³⁾	<u>4,061,513</u>	<u>6,315,048</u>	<u>5,558,340</u>	<u>5,168,719</u>	<u>5,253,614</u>
TOTAL WASTEWATER REVENUE	\$92,039,499	\$99,078,051	\$106,842,182	\$108,130,538	\$118,885,970
RATE STABILIZATION FUND TRANSFERS					
Deposits to the Rate Stabilization Fund	\$ 0	\$(2,590,000)	\$(6,500,000)	\$ 0	\$ 0
Withdrawals from Rate Stabilization Fund for Inclusion in Revenues	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
WASTEWATER REVENUES AFTER RATE STABILIZATION TRANSFER	<u>\$92,039,499</u>	<u>\$96,488,051</u>	<u>\$100,342,182</u>	<u>\$108,130,538</u>	<u>\$118,885,970</u>
WASTEWATER OPERATION & MAINTENANCE COSTS					
Operating Expenses	\$51,435,631	\$55,318,873	\$ 55,336,812	\$ 55,331,260	\$ 58,550,842
(Less Tax Receipts) ⁽⁴⁾	<u>(4,413,039)</u>	<u>(4,530,489)</u>	<u>(3,979,783)</u>	<u>(4,640,025)</u>	<u>(4,914,980)</u>
TOTAL WASTEWATER OPERATION & MAINTENANCE COSTS	<u>\$47,022,592</u>	<u>\$50,788,384</u>	<u>\$ 51,357,029</u>	<u>\$ 50,691,235</u>	<u>\$ 53,635,862</u>
NET WASTEWATER REVENUES	\$45,016,907	\$45,699,667	\$ 48,985,153	\$ 57,439,303	\$ 65,250,108
PARITY DEBT SERVICE					
Wastewater System Revenue Bonds ⁽⁵⁾	\$28,284,129	\$28,559,257	\$ 27,976,848	\$ 29,068,988	\$ 29,099,228
Parity State Loans	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
TOTAL PARITY DEBT SERVICE	<u>\$28,284,129</u>	<u>\$28,559,257</u>	<u>\$ 27,976,848</u>	<u>\$ 29,068,988</u>	<u>\$ 29,099,228</u>
PARITY DEBT SERVICE COVERAGE	1.59	1.60	1.75	1.98	2.24
SUBORDINATE WASTEWATER SYSTEM DEBT SERVICE⁽⁶⁾	\$ 33,910	\$ 20,116	\$ 14,342	\$ 22,543	\$ 109,216
TOTAL PARITY AND SUBORDINATE DEBT SERVICE	\$28,318,039	\$28,579,373	\$ 27,991,190	\$ 29,091,531	\$ 29,208,444
PARITY AND SUBORDINATE DEBT SERVICE COVERAGE	1.59	1.60	1.75	1.97	2.23

(1) Calculated in accordance with the Indenture as footnoted.

(2) Wastewater Revenues exclude grant receipts, taxes and certain reimbursements.

(3) Other Revenues includes BABs Interest Subsidy Payments received in connection with Series 2010B Bonds which are Build America Bonds. Other Revenues also includes revenues received from the sale of energy to the utility grid of \$693,272 in Fiscal Year 2013, \$1,099,418 in Fiscal Year 2014, \$1,092,911 in Fiscal Year 2015, \$1,246,360 in Fiscal Year 2016, and \$900,014 in Fiscal Year 2017.

(4) Wastewater Operation and Maintenance Costs exclude those expenses paid from the share of the 1% countywide *ad valorem* tax levy allocated to Special District No. 1. Under current District policy, taxes are used to pay for operations allocable to storm water processing and infiltration/inflow processing.

(5) Includes net swap payments (which swaps have subsequently been terminated). Net of capitalized interest. Debt service on the Series 2010B Bonds is gross of the BABs Interest Subsidy Payments received by the District.

(6) Includes outstanding Wastewater System commercial paper notes and certain subordinate State Loans (which State Loans have subsequently been retired or refunded by Wastewater System Revenue Bonds). With respect to commercial paper notes includes interest only with no principal amortization.

Source: The District.

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Series G**

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EBMUD WEB SITE

Since September 1996, the District has made available general financial information on its web site: (<http://www.ebmud.com>.) The site is updated periodically and is designed to assist ratepayers, investors and other interested parties in learning more about the District's financial condition. However, the information presented therein is not part of this Continuing Disclosure Information Statement and must not be relied upon in making any investment decision with respect to the District's bonds.