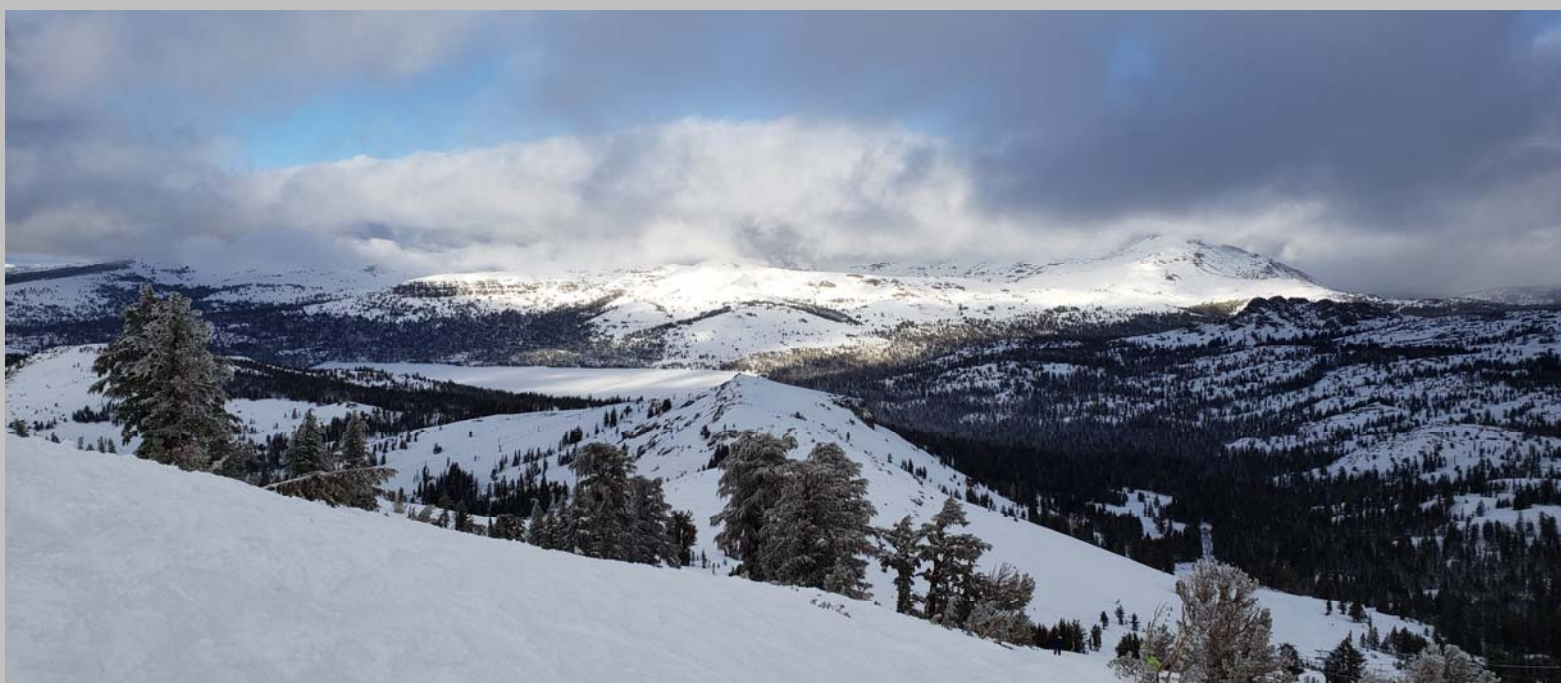


# COMPREHENSIVE ANNUAL FINANCIAL REPORT

for the years ended June 30, 2020 and 2019

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EAST BAY MUNICIPAL UTILITY DISTRICT • OAKLAND, CALIFORNIA 94623  
Prepared by the Accounting Division of the Finance Department

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Letter of Transmittal

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Board of Directors

Organizational Staffing

Organization Chart

December 31, 2020  
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, 2020.

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.

Lance, Soll & Lunghard, LLP, have issued an unmodified opinion on the East Bay Municipal Utility District's financial statements for the year ended June 30, 2020. The purpose of the independent audit was to provide reasonable assurance that these financial statements for the year ended June 30, 2020, 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 1.45 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 776,000 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

Ward 2 – John A. Coleman

Ward 3 – Marguerite Young (President)

Ward 4 – Andy Katz

Ward 5 – Doug Linney (Vice President)

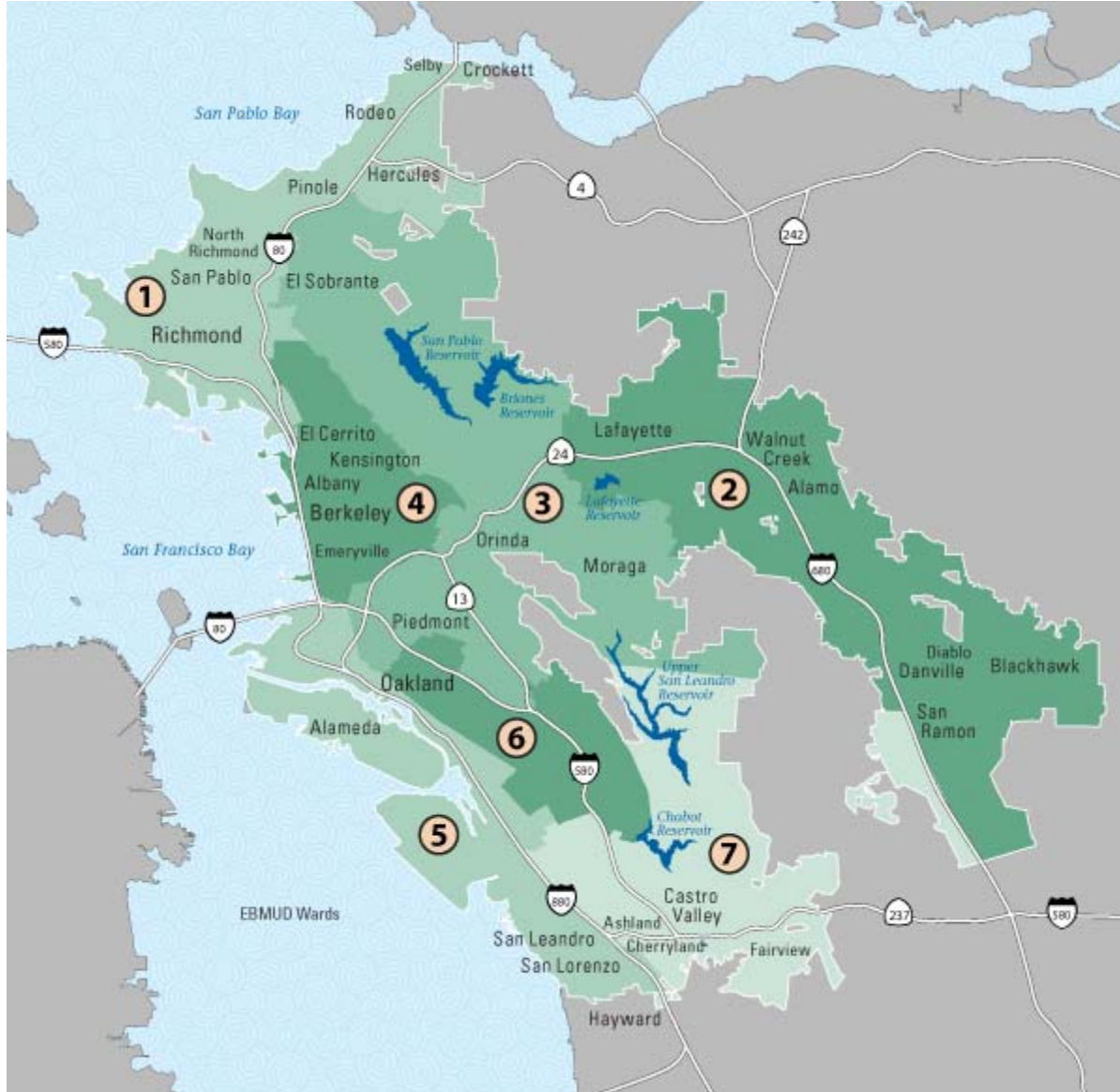
Ward 6 – William B. Patterson

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 1,957 active full-time employees in fiscal year 2020 under the administrative direction of appointed General Manager Clifford C. Chan 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, Peet's Coffee and Tea, PowerBar, Clif Bar, IKEA, Novartis, Acme Bread Company, and Pixar.

The West Contra Costa County region includes El Cerrito, El Sobrante, Hercules, Kensington, Pinole, Richmond, Rodeo 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 Alamo, Danville, Lafayette, Martinez, Moraga, Orinda, Pleasant Hill, San Ramon 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.

The East Bay economy experienced a slower and yet stable growth in Fiscal Year 2020 prior to the COVID-19 pandemic. According to the East Bay Economic Outlook 2020, the East Bay received \$52.9 billion in taxable sales in 2019. Year-over-year taxable sales growth for the East Bay was 0.8% between 2018 and 2019. Taxable sales in the East Bay during 2019 were the highest on record for the region. Trends in trade remained healthy throughout 2019, with year-to-date exports as of November 2019 increasing 2.1% and imports growing 4.2% year-over-year. Travel activity through Oakland International Airport (OAK) reached 13.4 million passengers in 2019, the second highest level in a decade. Employment growth has slowed compared to previous years, increasing by only 0.2% between March 2019 to March 2020, compared to the 1.5% growth the year prior. Unemployment rate was 3.9% in March 2020, above the year-ago estimate of 3.2%. This compares with an unadjusted unemployment rate of 5.6% for California and 4.5% for the nation during the same period. Population annual growth rate has slowed to 0.6%, compared to 0.9% the year prior. Nonetheless, East Bay slightly outpaced growth in neighboring counties, including San Mateo County at 0.2% as well as San Francisco and Santa Clara counties both at 0.3%. Compared to 2018, there were slightly fewer East Bay deals and less venture capital raised in 2019. However, 2018 was an exceptional year, and 2019 saw the second highest amount of venture capital raised in the region. Based on data from PitchBook, the median levels of investment in biotechnology, medical devices, clean tech and software

were higher than in all but three states. Moreover, the Bay Area retained a dominant position in attracting venture investments indicating the extremely rich environment for East Bay creativity. The commercial real estate market continued its momentum in 2019, marking a year of sustained demand and moderating construction activity. The East Bay office market continued to attract firms across several industries, including the life sciences, healthcare, and financial sectors. Residential real estate market experienced an average year-over-year price growth of 3.8% from 2016 to 2019. Housing shortages continued to drive up home prices and apartment rents through Fiscal Year 2020.

The fourth quarter of Fiscal 2020 saw the significant downturn in economic activities due to the global COVID-19 pandemic. Under State and local government orders, except for essential businesses, businesses were temporarily closed and residents were advised to stay home until the virus is brought under control. As of the close of Fiscal Year 2020, consumer and business spending sharply declined, the economic growth achieved earlier in the year was wiped out, and moving the US economy towards a recession. The extent of the economic damage is difficult to estimate and forecasting a recovery is difficult as the downturn in economic growth continues beyond the fiscal year. Aggressive government intervention and a healthy economy prior to the pandemic offer an optimistic post-pandemic economic recovery outlook in the Fiscal Year 2021.



Consistent with Government Finance Officers Association (GFOA) recommendations EBMUD has developed a strategic plan that incorporates the District's mission and principles, and identifies its goals, strategies, objectives and key performance indicators. The strategic plan is a roadmap that will guide the District in ensuring its ability provide high-quality drinking water to 1.45 million customers and critical wastewater treatment to 776,000 customers. The strategic plan defines actions that need to be taken in the next three to five years to achieve the District's mission now and well into the future. The strategic planning process is designed to assess the environment in which the District operates, setting priorities and allocating resources, and respond to both near and long-term challenges. These efforts protect public health and the environment and help the East Bay economy thrive.

## 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 and high quality customer service
- Promote ethical behavior in the conduct of District business
- Ensure fair and open public processes
- Provide a safe and healthy work environment
- Protect the environment and preserve natural resources
- Minimize waste and conserve energy
- Promote diversity and equality in personnel matters and contracting
- Promote environmental, economic, and social sustainability

## 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:**  
Build stakeholder trust and long-term relationships through service excellence, proactive communication and education.
- **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.

Sustainability and resilience are essential principles that guide the District's action in meeting the needs of customers. Sustainability incorporates environmental, social, and economic objectives into the District's decision-making and work practices to meet the needs of today without compromising the ability to meet the needs of future generations. Resilience enables the District to recover from and adapt to unforeseen events.

The Board of Directors is committed to developing policy through an open, public process, guided by the District's Mission Statement. Policies are then implemented under the direction of the General Manager who is appointed by and reports directly to the Board of Directors. Day to day operations are managed by the senior management team and carried out by approximately 1,957 dedicated employees.

## 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 2020, 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 \$244 million or 13% during the fiscal year.
- Capital assets increased by \$187 million or 4% to \$5.2 billion.
- Operating revenue increased by \$47 million or 7% to \$694 million.
- Operating expense increased by \$56 million or 13% to \$488 million.
- Non-operating net expense decreased by \$8 million or 18% to (\$39) million.
- Capital contributions decreased by \$34 million or 30% from the prior fiscal year.

### *Debt Administration*

As of the end of fiscal year 2020, the Water System had total long-term term revenue bonds, commercial paper notes and state loans outstanding of \$3.0 billion. The Wastewater System had total long-term revenue bonds and extendable commercial paper notes outstanding of \$394 million.

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

No Water System revenue bonds or Wastewater System revenue bonds were issued in fiscal year 2020. The District did draw down an additional \$23.8 million in state loans during the fiscal year.



### *Budget and Rates*

The Board of Directors adopted the biennial budget and rates for fiscal years 2020 and 2021 on June 11, 2019. These budgets support EBMUD's mission, values and strategic plan. The adopted total biennial budget for fiscal years 2020 and 2021 is \$2.34 billion, \$2.01 billion for the Water System, and \$0.33 billion for the Wastewater System. The Water System rate increase was 6.5 percent for fiscal year 2020 and 6.25 percent for fiscal year 2021, and the Wastewater System rate increase was 4.0 percent for fiscal year 2020 and 4.0 percent for fiscal year 2021.

The budget addresses the key strategic plan priorities of reinvesting in aging physical infrastructure and expanding preventative maintenance to continue providing high quality and reliable service. In support of 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. The budget supports 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.

The total Water System budget was \$1.13 billion in fiscal year 2020, and \$885 million in fiscal year 2021. The Capital Improvement Program (CIP) continues its focus on investments in infrastructure rehabilitation, repair and replacement. Over the five year period (fiscal year 2020 to 2024), major capital work includes anticipated spending of \$690 million on the pipelines, regulators and appurtenances program which includes expanding the rate of pipeline replacements; \$262 million on water treatment plant upgrades; \$182 million on pressure zone improvements; and \$147 million on reservoir rehabilitation; and \$127 million on raw water aqueduct improvements.

The total Wastewater System budget was \$178 million in fiscal year 2020 and is \$150 million in fiscal year 2021. Over the five year period (fiscal year 2020 to 2024), major capital work includes anticipated spending of \$92 million to rehabilitate and improve the infrastructure at the wastewater treatment plant; \$18 million to upgrade the digesters; \$17 million to rehabilitate sewer interceptors; and \$16 million on resource recovery improvements.

## INTRODUCTION

In fiscal year 2020, EBMUD continued focus on securing long-term water supply, protecting water quality and the environment, and improving the District's infrastructure. EBMUD implemented an overall plan to meet these goals with its Water Supply Management Program 2040, which helps EBMUD meet water needs in the coming decades. Rate increases and cost-cutting programs continued to stabilize and improve EBMUD's financial position. Through cooperative efforts with stakeholders in fiscal year 2020, EBMUD continued to maneuver through many challenges with strength and stability.

## LONG-TERM WATER SUPPLY

### *Secure 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 developing 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 challenges in the Sacramento-San Joaquin Delta. 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 achieve 62 million gallons per day (MGD) of water conservation by the year 2040. The District is in the process of updating its Water Conservation Master Plan with the new update expected in 2021.

### *Camanche Permit Extension*

EBMUD's primary water rights are on the Mokelumne River and include a license to operate and divert from Pardee Reservoir and a Permit 10478, which authorizes EBMUD to operate and divert water from both Pardee and Camanche Reservoirs. On Average, the Mokelumne River provides about 90 percent of the water supply for EBMUD's service area. In August 2016, the State Water Board extended Permit 10478 to year 2040, enabling the District with additional time to fully use the water authorized under the permit prior to seeking licensure. The extension was granted following over 16 years of committed analysis and

collaboration with resource agencies, stakeholders and Mokelumne River water rights holders, and resulted in new agreements to embark on future groundwater banking projects.

### ***Water Conservation***

Thanks to strategic water supply plans, continued conservation by customers, natural watershed runoff, and investments in conservation, recycled water and supplemental supplies, EBMUD projects sufficient water supply to meet future demand. Throughout the drought and recent above-normal rainfall years, EBMUD continued to support outreach and engagement with consumers to ensure conservation remains a way of life in California.

The District's comprehensive water conservation and recycled water programs help to ensure that EBMUD will meet requirements of recent California water conservation legislation, including the Water Conservation Act of 2009 – which mandated a 20 percent reduction in water use by 2020 – and the Long Term Framework passed in 2018. Ongoing demand reduction by EBMUD customers has positioned the District well to meet the requirements of State legislation.

To further support water conservation efforts, EBMUD is implementing an aggressive leak detection program to save valuable water, reduce repair costs and customer inconveniences resulting from pipe breaks. The District has investigated innovative acoustic, satellite and pressure-sensing technology to detect underground leaks before they fully compromise pipes. The District has committed to significant investments in new leak detection monitors in the coming years.

### ***Water Recycling***

EBMUD maintains a Recycled Water Master Plan to plan for and implement recycled water projects. These projects provide a local, reliable and sustainable water supply to offset the use of potable water and lessen 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. In February 2019, EBMUD completed a Recycled Water Master Plan Update to guide future projects and priorities with a goal to recycle 20 MGD by the year 2040. Recycled water is currently provided for industrial processes, landscape irrigation, and commercial applications. EBMUD's current recycled water projects include East Bayshore,

San Ramon Valley, North Richmond, Richmond Advanced Recycled Expansion (RARE), and a commercial truck fill station in Oakland.

The East Bayshore project provides recycled water for a variety of non-potable uses in portions of Emeryville and Oakland. The San Ramon Valley project provides recycled water for landscape irrigation to customers in San Ramon and Danville. 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. The recycled water fill station allows commercial trucks to pick up recycled water for non-potable purposes such as construction site dust control. Over the years, EBMUD has secured federal, state, and customer-specific funds to pay portions of these recycled water facilities. In recent years, state funds were secured to install a segment of the East Bayshore pipeline from Oakland to Emeryville and a portion of the distribution system in San Ramon. EBMUD partnered with the City of Albany's bike path project to install another segment of the East Bayshore pipeline, resulting in cost savings. EBMUD is currently collaborating with Caltrans and Alameda County Transit Commission to install a portion of recycled water pipeline in Berkeley as part of a larger construction project.

### ***Regional Water Supply Sources***

California water systems were built to serve the populations and geographical areas that invested in them – but seldom were designed to work across different agencies. 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), seeking 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 improve emergency preparedness, address climate resilience, leverage existing infrastructure investments and facilitate water transfers during critical periods of drought or after natural disasters. In 2017, the BARR partner agencies completed a Drought Contingency Plan (DCP) using a \$200,000 grant from the U.S. Bureau of Reclamation (Reclamation). The DCP was the first phase of a multiphase effort

and summarized how the agencies can respond to droughts, determine drought-related vulnerabilities, and identified potential mitigation measures to help the region better weather future droughts. In August 2019, the BARR partner agencies began developing an implementation strategy for a Shared Water Access Program (formerly called the Regional Water Market Program) under a \$400,000 grant from Reclamation. A report documenting the implementation strategy for SWAP is expected by summer of 2022. In addition, EBMUD is also evaluating potential participation in a second BARR project, the Los Vaqueros Reservoir Enlargement Project.

On November 29, 2016, the State of California designated EBMUD and the City of Hayward as the Groundwater Sustainability Agencies for the East Bay Plain Subbasin (Subbasin). EBMUD is currently working with the City of Hayward, along with input from Subbasin stakeholders, to complete a Groundwater Sustainability Plan (GSP). The GSP is being completed using \$1.68 million in grant funding from the Department of Water Resources and the State of California, and is expected to be completed in January 2022.

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 (NSJWCD) to develop the Demonstration Recharge, Extraction, and Aquifer Management (DREAM) Project. As part of DREAM, EBMUD will supply up to 1,000 acre-feet (AF) of Mokelumne River water in wet years to farmers who will use it for irrigation in place of pumped groundwater. In exchange, EBMUD can then extract up to 500 AF of water from the aquifer during dry years to meet customer demand. EBMUD and NSJWCD began construction of necessary facilities in October 2020.

During normal rainfall years, EBMUD customers receive 90 percent of their water from the Mokelumne River watershed in the foothills of the Sierra Nevada, when the Mokelumne and local East Bay watersheds provide sufficient water for EBMUD's current and foreseeable needs. However, California has a history of recurrent droughts, and during these times, conservation isn't enough to meet the shortfall. To ensure additional water supply is available 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.

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

## WATER QUALITY AND ENVIRONMENTAL PROTECTION

### *New Phase in Bay Protection*

San Francisco Bay and the Sacramento/San Joaquin River Delta System are profoundly influenced by the roughly 15 million California residents who draw drinking water and discharge waste into the system. This is one of the most highly urbanized estuary and delta systems in the world. Urban and agricultural runoff, legacy and ongoing industrial wastewater pollution, freshwater and groundwater withdrawals, habitat loss, species extinctions, invasion by non-native species, and a host of other influences profoundly impact the Bay-Delta System. Among those many concerns, San Francisco Bay receives some of the highest nutrient loads among estuaries worldwide, yet has not historically experienced the water quality problems typical of other nutrient-enriched estuaries. Most Bay Area wastewater treatment plants were not originally designed to remove nutrients. Effluent discharge from these plants is the major nutrient source, accounting for more than 60 percent of the total nutrient load to the Bay. It is not known whether this rate of nutrient loading is sustainable over the long term, especially since it will continue to increase along with population growth. Special studies and expanded monitoring carried out by the Nutrient Management Strategy Committee, comprised of regulators, wastewater agencies, and other Bay stakeholders, have revealed attention-worthy water quality conditions. These include recurring low dissolved oxygen in some margin habitats and the consistent detection of multiple algal toxins; both have been associated with nutrient over-enrichment in other estuaries. Evaluation is needed in the potential impacts of these conditions on human and ecological health and causal factors of the observed water quality conditions need to be determined. A further complication is that the Bay's response to nutrient loading is influenced by many physical and biological factors, including suspended sediment concentrations, light availability, freshwater inputs, and ocean conditions. These factors themselves vary by Bay sub-embayment and are subject to regional land and water management effects as well as climate oscillations. Therefore, more extensive monitoring and special studies are needed to understand what might happen to Bay water quality as a result of changes in nutrients and other factors.



Due to the significant costs associated with nutrient removal, the District is collaborating with regulators and regional stakeholders, through an award-winning framework, to determine the impacts of nutrients on Bay water quality and on the development of effective nutrient management solutions for the region. As a result of this collaboration, a new five-year Nutrient Watershed Permit was adopted by the San Francisco Bay Regional Water Quality Control Board last year. In 2020, the District continued to comply with the new permit requirements, conducted nutrient monitoring and reporting, significantly increased funding to the regional scientific studies, and actively participated in evaluating nutrient reduction opportunities through sustainable natural systems and wastewater recycling – opportunities that can provide benefits beyond nutrient removal.

The District is finishing a comprehensive master plan that not only evaluated a wide range of nutrient reduction strategies, but also integrated and coordinated competing priorities for its wastewater treatment plant. This includes addressing aging infrastructure needs, seismic vulnerabilities, more stringent regulatory requirements, climate change and sustainability drivers. The District is also conducting pilot testing of nutrient removal technologies by leveraging its existing infrastructures.

In addition to nutrient effort, the District provides funding to a Regional Monitoring Program (RMP) led by scientists at the San Francisco Estuary Institute. The RMP conducts extensive sampling throughout the year to monitor water quality and health of the Bay. The RMP also conducts special studies to focus on contaminants of emerging concerns. In 2020, the District participated several special studies in analyzing per- and polyfluoroalkyl substances (PFAS), quaternary ammonium compounds (QACs), and bisphenol in wastewater through the RMP. PFAS are a family of man-made fluorine-rich chemicals used in a wide range of products for consumers and industry. Very little is known about the fate of these compounds in the environment nor their potential to cause ecological harm. QACs are used as active antimicrobial ingredients and their use has likely increased significantly due to the COVID-19 pandemic. Bisphenols are endocrine disrupting synthetic compounds.

### *Pollution Prevention*

Federal regulations require the District to operate and maintain a Pollution Prevention (P2) Program to reduce pollutants from residential, commercial, and non-regulated industrial dischargers at their source. The P2 Program consists of a multi-pronged approach to educate the public about wastewater treatment and demonstrate positive behaviors for reducing pollution. One component is the Main Wastewater Treatment Plant (MWWTP) tour program, which provides students, technical groups, and the general public the opportunity to observe how the MWWTP operates. Due to the public health emergency, the last in-person tour was conducted in March 2020. EBMUD transitioned from in-person to virtual tours beginning in April 2020. Virtual tours have been provided in English, Spanish, and Cantonese. To date, the virtual tour has had over 2,000 attendees.

In August 2020, for the fourth consecutive year, the District published "*EBMUD Here when you need us most*" an 8-page insert in the *East Bay Express*. This year's insert highlighted the District's mission to provide safe, reliable water and wastewater services through public health emergencies, the critical role of our essential workers, and our pandemic response. The insert also offered pollution prevention tips and information about the District's partnerships with regulatory agencies and non-governmental organization to protect the environment.

This year the District held its fourth annual Coastal Cleanup Event from September 1 to October 16, 2020. In prior years, the District's Coastal Cleanup event was a one-day effort at the Martin Luther King Jr. Regional Shoreline Park near the District's Oakport Wet Weather Facility. Following social distancing and other safety guidelines, District volunteers removed litter from their communities to prevent trash from polluting local waterways and shorelines. Participants shared their photographs and stories through social media or internal District platforms, many of them wearing District Coastal Cleanup t-shirts. The Coastal Cleanup event coincided with the District's fall Pollution Prevention outreach campaign in the *East Bay Express* newspaper.

The District directly encourages customers to reduce and eliminate pollutants from being disposed in drains. In Fiscal Year 2020, staff distributed approximately 1,000 heat-proof, compostable containers for residential collection and composting of fats, oil, and grease (FOG). In addition, the District distributed nearly 4,500 cooking pan scrapers and brochures to the Oakland Housing Authority and during outreach events. The District also supports a pharmaceutical take-back program to collect and properly dispose of

unwanted medications. Since its inception, the program has disposed of over 19 tons of unwanted medications.

### *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 \$70 million to date to strengthen the levees that protect critical infrastructure, including EBMUD's water lifelines – the Mokelumne Aqueducts. EBMUD has also invested more than \$40 million to date to strengthen the aqueducts to help withstand seismic events. The Delta itself is a dramatically altered ecosystem that presents many challenges to sustainable fisheries. In addition to restoring and enhancing 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 Delta Conveyance Project (formerly California WaterFix, and prior to that 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 concerns.

EBMUD continued its stewardship efforts on the Mokelumne River in 2020 with habitat improvements for salmon and steelhead spawning and juvenile rearing habitat, continuing a telemetry studies through the Delta of out-migrating salmon to better understand migratory path and survival, managing cold water in the reservoirs to ensure it is available to the Mokelumne River when needed for salmon, 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 return of 10,000 salmon to the Mokelumne River in 2019.

### ***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. Test results are summarized and released annually to the public in our Annual Water Quality Report. As a best management practice, EBMUD has implemented an added quality assurance protocol – internal water quality goals that exceed 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 (AB 1953). In fiscal year 2017, 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.

### ***Renewable Energy***

EBMUD can generate over 487,500 megawatts of renewable energy valued at over \$10 million annually via its hydropower, photovoltaic and cogeneration facilities for its own use and sale. EBMUD's cogeneration efforts to turn organic wastes into energy were awarded the National Environmental Achievement Award from the National Association of Clean Water Agencies for its innovative and sustainable practices. The Resource Recovery Program at EBMUD's wastewater treatment plant provides approximately 135 percent of the electricity needed to power the plant from renewable energy generated through food scraps, winery waste, fats, oils and grease and other organic waste. This reduces greenhouse gas emissions and provides revenue which helps to keep wastewater rates down.

**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 to refurbish and replace infrastructure and dedicating more resources to replace and renew pipes, often using new and innovative technologies.

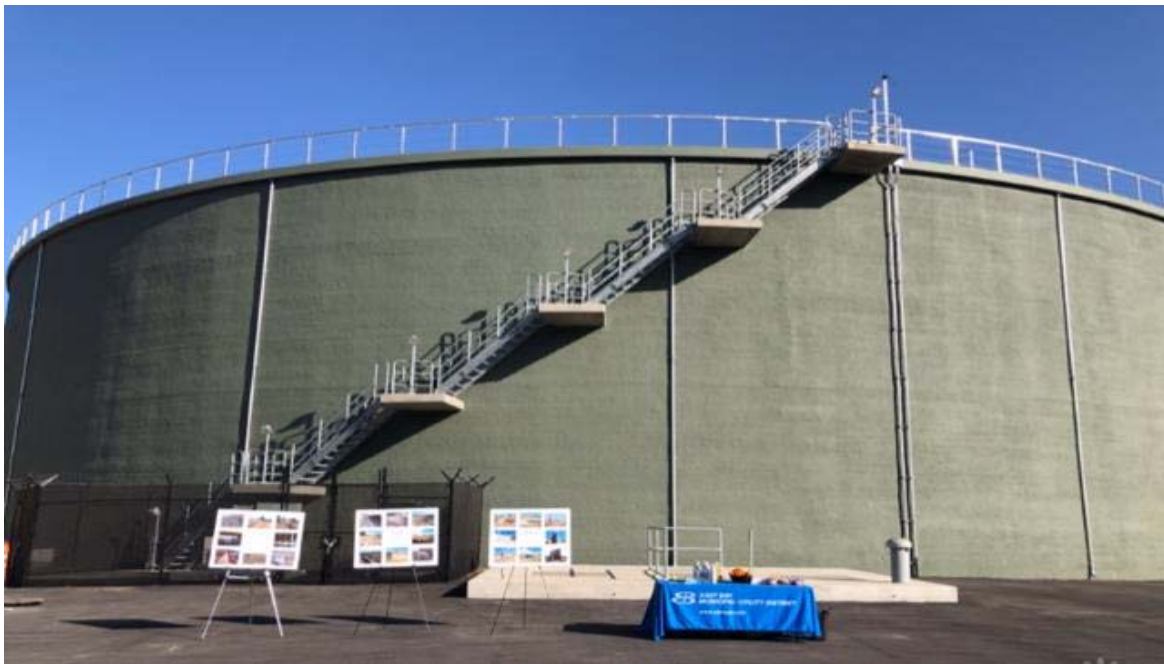
EBMUD recently unveiled its ambitious goal to increase the annual pipeline renewal rate to ensure reliable water service into the future. In this acceleration effort, Pipeline Rebuild is looking at everything from innovative pipe technologies to improved installation methods. A few years shy of celebrating our centennial anniversary, this is EBMUD's plan to ensure our pipes best serve today's customers and those 100 years from now. In Fiscal Year 2020, EBMUD replaced 17.6 miles of pipeline and plans to replace 20 miles in Fiscal Year 2021.

In 2019, crews installed segments of Earthquake-Resistant Ductile Iron Pipe (ERDIP) in the Berkeley Hills, located on the Hayward Fault. Project plans for future ERDIP projects in Oakland, Berkeley, and Kensington are on track to be completed in 2021. This pipe technology was new to EBMUD in 2015, but has a perfect track record in Japan for surviving powerful tremors since the 1970s. The pipes' flexible joints are the key to its performance in seismic events. During a large earthquake or landslide, the pipes can accommodate significant ground movement. We are also installing iPVC pipe, a structurally enhanced plastic pipe, along with accompanying innovative testing by University of Colorado Boulder to demonstrate this pipe's resilience.

In 2017, the District continued 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. Power, treatment and chemical systems, along with process monitoring equipment, were all upgraded. 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 1936, the Orinda plant is the workhorse of EBMUD's local system and operates continually throughout the year.

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. EBMUD is undertaking studies to determine capital funding for large diameter pipe replacements and extending the life of pipes to maintain the current system and prevent disruptions.

In the coming years, EBMUD will continue to invest in infrastructure while 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, 2019. The Certificate of Achievement is a 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 fifteenth 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 received the GFOA's Distinguished Budget Presentation Award for its fiscal year 2020-2021 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. The District also received from GFOA an Award for Excellence in Government Finance, an award program that recognizes innovative programs and contributions to the practice of government finance that exemplify outstanding financial management.

The District received the California Society of Municipal Finance Officers (CSMFO) Excellence Award for Fiscal Year 2019-2020 Operating Budget. The CSMFO Budget Awards Program is designed to recognize those agencies that have prepared a budget document that meets the highest criteria and standards applied to municipal budgeting.

I would like to thank the Board of Directors for their continued support in 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, Andrea Miller, Controller, Lawrence Fan, Accounting Systems Supervisor, David Siu, Accounting and Financial Systems Analyst, Melody Wang, Accountant III, Yenny Coburn, Accountant III, and Stephanie Tsoi, 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, 2019

*Christopher P. Morrill*

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 of 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/5<sup>th</sup> 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.

## BOARD OF DIRECTORS

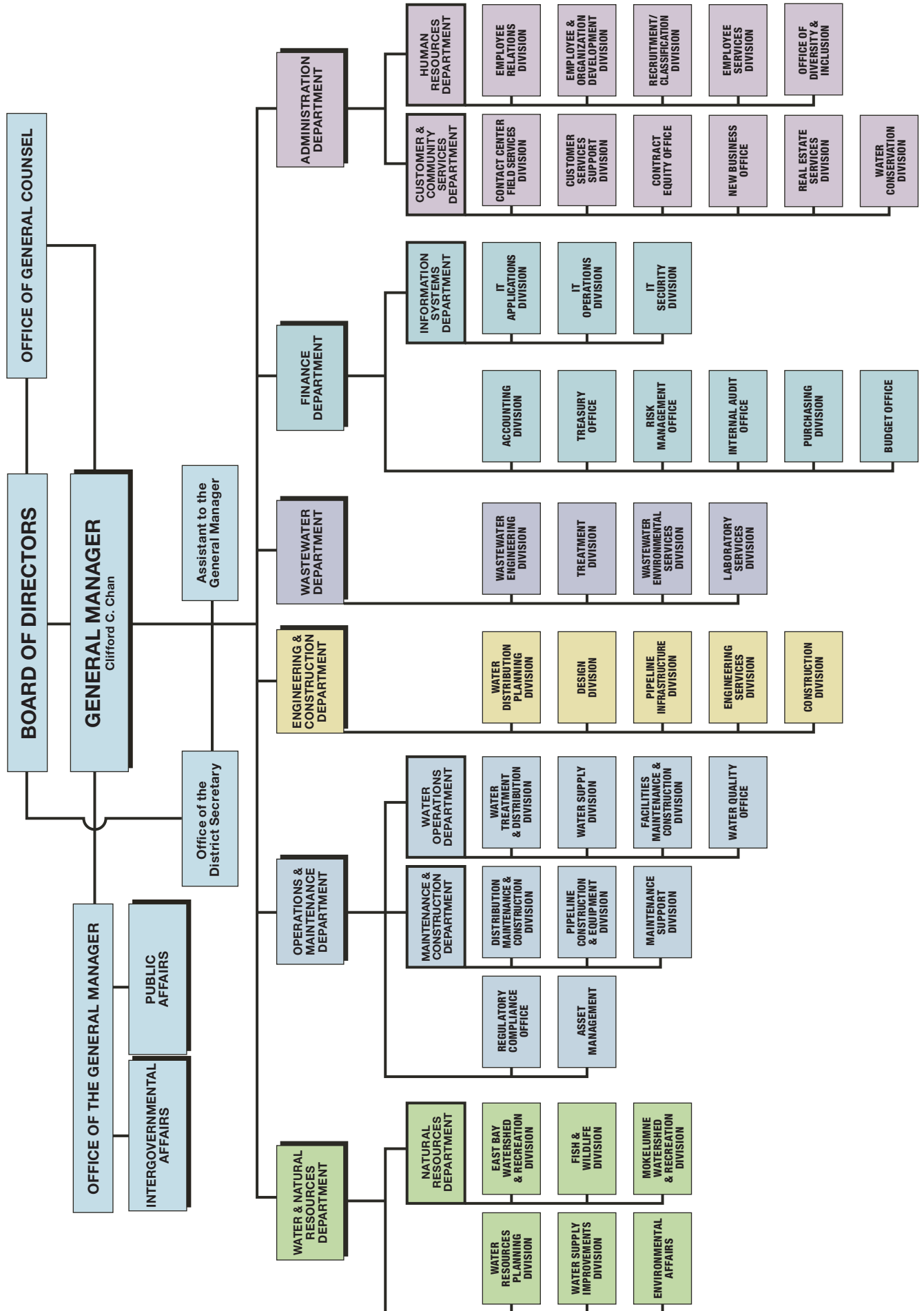
Marguerite Young .....	President
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Andy Katz.....	Director
Lesa R. McIntosh.....	Director
Frank G. Mellon .....	Director
William B. Patterson.....	Director

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FINANCE DIRECTOR ..... Sophia D. Skoda

CONTROLLER ..... Andrea M. Miller

PREPARED ..... Accounting Division of the  
Finance Department





Independent Auditors' Report

Management's Discussion and Analysis

Basic Financial Statements

Required Supplemental Information

Supplemental Information



# EAST BAY MUNICIPAL UTILITY DISTRICT

FOR THE YEARS ENDED JUNE 30, 2020 AND 2019

BASIC FINANCIAL STATEMENTS

Focused  
on YOU



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**EAST BAY MUNICIPAL UTILITY DISTRICT**  
**BASIC FINANCIAL STATEMENTS**  
**FOR THE YEARS ENDED JUNE 30, 2020 AND 2019**

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EAST BAY MUNICIPAL UTILITY DISTRICT  
 BASIC FINANCIAL STATEMENTS  
 For the Years Ended June 30, 2020 and 2019

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EAST BAY MUNICIPAL UTILITY DISTRICT  
BASIC FINANCIAL STATEMENTS  
For the Years Ended June 30, 2020 and 2019

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## INDEPENDENT AUDITORS' REPORT

To the Board of Directors  
East Bay Municipal Utility District  
Oakland, California

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

We have audited the accompanying financial statements of each major fund and the aggregate remaining fund information, of the East Bay Municipal Utility District (the District) as of and for the year ended June 30, 2020 and 2019, 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 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 audit. We conducted our audit in accordance with auditing standards generally accepted in the United States of America; the standards applicable to financial audits contained in *Government Auditing Standards*, issued by the Comptroller General of the United States; and the State Controller's Minimum Audit Requirements for California Special Districts. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the 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.



To the Board of Directors  
East Bay Municipal Utility District  
Oakland, California

### ***Opinions***

In our opinion, the financial statements referred to above present fairly, in all material respects, the respective financial position of each major fund and the aggregate remaining fund information of the East Bay Municipal Utility District, as of June 30, 2020 and 2019, and the respective changes in financial position and, where applicable, cash flows thereof for the year then ended in accordance with accounting principles generally accepted in the United States of America.

### ***Other Matters***

#### *Required Supplementary Information*

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

#### *Other Information*

Our audit was conducted for the purpose of forming opinions on the financial statements that collectively comprise the District's basic financial statements. 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 a required part of the basic financial statements.

The supplemental information is the responsibility of management and was derived from and relate directly to the underlying accounting and other records used to prepare the basic financial statements. Such information has been subjected to the auditing procedures applied in the audit of the basic financial statements and certain additional procedures, including comparing and reconciling such information directly to the underlying accounting and other records used to prepare the basic financial statements or to the basic financial statements themselves, and other additional procedures in accordance with auditing standards generally accepted 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.



CPAs AND ADVISORS

To the Board of Directors  
East Bay Municipal Utility District  
Oakland, California

**Other Reporting Required by *Government Auditing Standards***

In accordance with *Government Auditing Standards*, we have also issued our report dated August 31, 2020 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 solely 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 effectiveness of the District's 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.

*Lance, Soll & Loughard, LLP*

Sacramento, California  
August 31, 2020

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# EAST BAY MUNICIPAL UTILITY DISTRICT

## Management's Discussion and Analysis

June 30, 2020

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, 2020. Management's Discussion and Analysis (MD&A) 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 MD&A under a 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 MD&A 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 1.45 million. The Wastewater System intercepts and treats wastewater from residences and industries within an 88-square-mile service area including the communities of Alameda, Albany, Berkeley, Emeryville, Oakland, Piedmont, and the Stege Sanitary District and serves a population of about 776,000. 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, 2020

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 33 to 92 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 93 to 100 of this report.



# EAST BAY MUNICIPAL UTILITY DISTRICT

## Management's Discussion and Analysis

June 30, 2020

### FINANCIAL ANALYSIS

#### *Financial Highlights*

In fiscal year 2020, 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 \$2.1 billion (*net position*).

Net position increased by \$244 million or 13% during the fiscal year.

Capital assets increased by \$187 million or 4% to \$5.2 billion.

Operating revenue increased by \$47 million or 7% to \$694 million.

Operating expense increased by \$56 million or 13% to \$488 million.

Non-operating net expense decreased by \$8 million or 18% to (\$39) million.

Capital contributions decreased by \$34 million or 30% from the prior fiscal year.

#### *Financial Position*

In the current year, the District's total net position increased by \$244 million or 13% during the fiscal year. The Water System's net position increased by \$214 million or 14% and the Wastewater System's net position increased by \$30 million or 9%. Current and other assets decreased by \$31 million or 3%. Capital assets increased by \$187 million or 4%. By far the largest portion of the District's net position, 86% or \$1.8 billion, represents its investment in capital assets necessary to provide services.

In the previous fiscal year, the District's total net position increased by \$259 million or 16% during the fiscal year. The Water System's net position increased by \$217 million or 16% and the Wastewater System's net position increased by \$42 million or 14%. Current and other assets increased by \$171 million or 19%. Capital assets increased by \$195 million or 4%. By far the largest portion of the District's net position, 82% or \$1.5 billion, represents its investment in capital assets necessary to provide services.

# EAST BAY MUNICIPAL UTILITY DISTRICT

## Management's Discussion and Analysis

June 30, 2020

Table 1 shows the District's net position for the fiscal years ended June 30, 2020, 2019, and 2018:

**Table 1**  
Net Position  
Water and Wastewater  
June 30, 2020 and 2019  
(In thousands)

	<u>2020</u>	<u>2019</u>	<u>Variance</u>	<u>%</u>
Current and other assets	\$ 1,044,499	\$ 1,075,055	\$ (30,556)	(3)%
Capital assets	5,237,870	5,051,112	186,758	4%
Total assets	<u>6,282,369</u>	<u>6,126,167</u>	<u>156,202</u>	3%
Deferred outflow of resources	215,423	205,992	9,431	5%
Total assets and deferred outflow	<u>6,497,792</u>	<u>6,332,159</u>	<u>165,633</u>	3%
Current and other liabilities	960,028	905,933	54,095	6%
Long-term liabilities	3,324,076	3,442,657	(118,581)	(3)%
Total liabilities	<u>4,284,104</u>	<u>4,348,590</u>	<u>(64,486)</u>	(1)%
Deferred inflow of resources	80,281	94,307	(14,026)	(15)%
Total liabilities and deferred inflow	<u>4,364,385</u>	<u>4,442,897</u>	<u>(78,512)</u>	(2)%
Net position:				
Net investment in capital assets	1,840,222	1,549,619	290,603	19%
Restricted	250,370	253,567	(3,197)	(1)%
Unrestricted	42,815	86,076	(43,261)	(50)%
Total net position	<u>\$ 2,133,407</u>	<u>\$ 1,889,262</u>	<u>\$ 244,145</u>	13%

**Table 1**  
Net Position  
Water and Wastewater  
June 30, 2019 and 2018  
(In thousands)

	<u>2019</u>	<u>2018</u>	<u>Variance</u>	<u>%</u>
Current and other assets	\$ 1,075,055	\$ 904,282	\$ 170,773	19%
Capital assets	5,051,112	4,855,907	195,205	4%
Total assets	<u>6,126,167</u>	<u>5,760,189</u>	<u>365,978</u>	6%
Deferred outflow of resources	205,992	169,099	36,893	22%
Total assets and deferred outflow	<u>6,332,159</u>	<u>5,929,288</u>	<u>402,871</u>	7%
Current and other liabilities	905,933	899,620	6,313	1%
Long-term liabilities	3,442,657	3,317,300	125,357	4%
Total liabilities	<u>4,348,590</u>	<u>4,216,920</u>	<u>131,670</u>	3%
Deferred inflow of resources	94,307	82,478	11,829	14%
Total liabilities and deferred inflow	<u>4,442,897</u>	<u>4,299,398</u>	<u>143,499</u>	3%
Net position:				
Net investment in capital assets	1,549,619	1,494,381	55,238	4%
Restricted	253,567	256,299	(2,732)	(1)%
Unrestricted	86,076	(120,790)	206,866	(171)%
Total net position	<u>\$ 1,889,262</u>	<u>\$ 1,629,890</u>	<u>\$ 259,372</u>	16%

# EAST BAY MUNICIPAL UTILITY DISTRICT

## Management's Discussion and Analysis

June 30, 2020

### *Results of Operations*

In the current fiscal year, the District's total operating revenue of \$694 million for the year increased by \$47 million and total operating expense of \$488 million for the year increased by \$56 million. The change in net position (including capital contributions) decreased from \$279 million in the previous fiscal year to \$244 million in the current fiscal year. The District's total net position increased from \$1,889 million to \$2,133 million during the current fiscal year.

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

- Water revenue increased by \$47 million or 9% due to a 6.5% water rate increase at the beginning of fiscal year 2020 and a 3.5% increase of billed water consumption. The major categories of billed water consumption consist of a 6.0% increase in residential customers' water consumption and a 2.4% decrease in industrial customers' water consumption.
- Wastewater revenue remained largely stable in the fiscal year 2020 compared to fiscal year 2019, increasing \$1.6 million or 2%.
- The power revenue decreased by \$4 million or 36% due to dry weather and less water to generate hydropower in the current year.
- Operating expense increased by \$56 million, primarily as increases of \$33 million in pension expense, \$9 million in raw water expenses, \$9 million in water treatment and distribution, \$4 million in sewer treatment plant operations, \$5 million in depreciation on utility plant and vehicle, were offset by decrease of \$5 million in general administration expense.
- Net nonoperating expense decreased by \$8 million, primarily due to a \$5 million increase in property tax received and \$6 million decrease in bond interest expense and amortization, offset by \$3 million decrease in investment income resulting from fair market value fluctuation of investments. 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 were \$14 million and \$1 million respectively in the current fiscal year, and \$13 million and \$5 respectively in the prior fiscal year.
- Capital contributions decreased by \$34 million. After a continued high rate of development since fiscal year 2017 and a record high in fiscal year 2019, System Capacity Charges decreased by \$20 million and Wastewater Capacity Fees decreased by \$8 million in fiscal year 2020 reflecting a slowdown in property development. The construction service installments decreased by \$6 million compared to fiscal year 2019 due to slowdown of construction projects in the Oakland and Berkeley service areas. Grants and other reimbursements received remained stable in the current fiscal year compared to the prior year. Page 17 contains additional capital contributions information.

## EAST BAY MUNICIPAL UTILITY DISTRICT

### Management's Discussion and Analysis

June 30, 2020

In the previous fiscal year, the District's total operating revenue of \$647 million for the year increased by \$48 million and total operating expense of \$432 million for the year increased by \$2 million. The change in net position (including capital contributions) increased from \$210 million in fiscal year 2018 to \$279 million in the fiscal year 2019. The District's total net position increased from \$1,630 million to \$1,889 million during the fiscal year 2019, after a \$19 million decrease of prior period adjustments in net position for debt refunding costs and capitalization of Wastewater System inventories..

The major components of the District's results of operations in fiscal year 2019 were:

- Water revenue increased by \$40 million or 8% due to a 9% water rate increase at the beginning of fiscal year 2019, offset by a 1% decrease in billed water consumption.
- Wastewater revenue increased by \$4 million or 4% primarily due to a 5% wastewater rate increase at the beginning of fiscal year 2019.
- Operating expense remained stable, primarily as increases of \$4 million in raw water expenses, \$4 million in water treatment and distribution, \$5 million in financial and risk management (primarily liabilities claims), \$4 million in depreciation on utility plant and vehicle, were offset by decreases of \$7 million in general administration and \$8 million in pension expense.
- Net nonoperating expense decreased by \$11 million, primarily due to an \$11 million increase in investment income resulting from fair market value increase of investments. 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 were \$13 million and \$5 million respectively in fiscal year 2019, and \$9 million and (\$2) respectively in fiscal year 2018.
- Capital contributions increased by \$12 million primarily reflecting a \$4 million increase in System Capacity Charges and an \$2 million increase in Wastewater Capacity Fees due to increasing multi-family dwelling projects, particularly in the Oakland and Berkeley service areas. The construction service installments increased by \$8 million compared to fiscal year 2018 due to increased construction projects in the Oakland and Berkeley service areas. Grants and other reimbursements received decreased by \$2 million in fiscal year 2019 compared to fiscal year 2018. Page 17 contains additional capital contributions information.

# EAST BAY MUNICIPAL UTILITY DISTRICT

## Management's Discussion and Analysis

June 30, 2020

Table 2 shows changes in the District's net position for the fiscal years ended June 30, 2020, 2019, and 2018:

**Table 2**

Changes in Net Position

Water and Wastewater

June 30, 2020 and 2019

(In thousands)

	<u>2020</u>	<u>2019</u>	<u>Variance</u>	<u>%</u>
Operating Revenue:				
Water	\$ 567,394	\$ 520,344	\$ 47,050	9%
Sewer	91,956	90,323	1,633	2%
Power	7,223	11,272	(4,049)	(36)%
Wet weather facilities charges	27,090	25,113	1,977	8%
Total operating revenue	<u>693,663</u>	<u>647,052</u>	<u>46,611</u>	<u>7%</u>
Operating Expense:				
Raw water	53,246	44,626	8,620	19%
Water treatment & distribution	126,647	117,557	9,090	8%
Recreation areas, net	6,674	6,126	548	9%
Sewer lines & pumps	16,365	15,881	484	3%
Sewer treatment plant operations	41,504	37,954	3,550	9%
Customer accounting & collecting	19,922	20,282	(360)	(2)%
Financial and risk management	25,550	23,069	2,481	11%
Facilities management	5,980	5,020	960	19%
General administration	31,722	36,843	(5,121)	(14)%
Pension expense	14,523	(18,259)	32,782	(180)%
OPEB expense	(3,984)	(3,312)	(672)	20%
Depreciation (excluding amounts reported within the Water and Wastewater operations)	136,631	131,997	4,634	4%
Amortization	13,252	14,401	(1,149)	(8)%
Total operating expense	<u>488,032</u>	<u>432,185</u>	<u>55,847</u>	<u>13%</u>
Net operating income (expense)	<u>205,631</u>	<u>214,867</u>	<u>(9,236)</u>	<u>(4)%</u>
Nonoperating income (expense):				
Investment income	14,902	18,105	(3,203)	(18)%
Taxes & subventions	46,626	41,565	5,061	12%
Interest & amortization of bond expenses, net	(113,506)	(119,574)	6,068	(5)%
Increase (decrease) of Equity in JPA partnership fund	(3,325)	(3,545)	220	(6)%
Other income	16,194	15,928	266	2%
Total nonoperating income (expense), net	<u>(39,109)</u>	<u>(47,521)</u>	<u>8,412</u>	<u>(18)%</u>
Income (loss) before contributions	166,522	167,346	(824)	(0)%
Capital contributions	77,623	111,350	(33,727)	(30)%
Change in net position	244,145	278,696	(34,551)	(12)%
Total net position – beginning	1,889,262	1,629,890	259,372	16%
Prior Period adjustment - Debt Refunding	-	(23,802)	23,802	N/A
Changes in accounting estimates	-	4,478	(4,478)	N/A
Total net position – ending	<u>\$ 2,133,407</u>	<u>\$ 1,889,262</u>	<u>\$ 244,145</u>	<u>13%</u>

# EAST BAY MUNICIPAL UTILITY DISTRICT

## Management's Discussion and Analysis

June 30, 2020

**Table 2 (Continued)**

Changes in Net Position

Water and Wastewater

June 30, 2019 and 2018

(In thousands)

	<u>2019</u>	<u>2018</u>	<u>Variance</u>	<u>%</u>
Operating Revenue:				
Water	\$ 520,344	\$ 480,745	\$ 39,599	8%
Sewer	90,323	86,514	3,809	4%
Power	11,272	7,544	3,728	49%
Wet weather facilities charges	25,113	24,293	820	3%
Total operating revenue	<u>647,052</u>	<u>599,096</u>	<u>47,956</u>	8%
Operating Expense:				
Raw water	44,626	40,349	4,277	11%
Water treatment & distribution	117,557	113,422	4,135	4%
Recreation areas, net	6,126	5,682	444	8%
Sewer lines & pumps	15,881	13,422	2,459	18%
Sewer treatment plant operations	37,954	38,220	(266)	(1)%
Customer accounting & collecting	20,282	19,434	848	4%
Financial and risk management	23,069	17,518	5,551	32%
Facilities management	5,020	5,523	(503)	(9)%
General administration	36,843	43,839	(6,996)	(16)%
Pension expense	(18,259)	(10,183)	(8,076)	79%
OPEB expense	(3,312)	(1,153)	(2,159)	187%
Depreciation (excluding amounts reported within the Water and Wastewater operations)	131,997	128,076	3,921	3%
Amortization	14,401	16,197	(1,796)	(11)%
Total operating expense	<u>432,185</u>	<u>430,346</u>	<u>1,839</u>	0%
Net operating income (expense)	214,867	168,750	46,117	27%
Nonoperating income (expense):				
Investment income	18,105	7,131	10,974	154%
Taxes & subventions	41,565	41,480	85	0%
Interest & amortization of bond expenses, net	(119,574)	(120,719)	1,145	(1)%
Increase (decrease) of Equity in JPA partnership fund	(3,545)	(3,380)	(165)	5%
Other income	15,928	17,420	(1,492)	(9)%
Total nonoperating income (expense), net	<u>(47,521)</u>	<u>(58,068)</u>	<u>10,547</u>	(18)%
Income (loss) before contributions	167,346	110,682	56,664	51%
Capital contributions	111,350	98,997	12,353	12%
Change in net position	278,696	209,679	69,017	33%
Total net position – beginning	1,629,890	1,528,383	101,507	7%
Prior Period adjustment per implementation of GASB 75	-	(108,172)	108,172	N/A
Prior Period adjustment - Debt Refunding	(23,802)	-	(23,802)	N/A
Changes in accounting estimates	4,478	-	4,478	N/A
Total net position – ending	<u>\$ 1,889,262</u>	<u>\$ 1,629,890</u>	<u>\$ 259,372</u>	16%

## EAST BAY MUNICIPAL UTILITY DISTRICT

### Management's Discussion and Analysis

June 30, 2020

#### *Liquidity*

The District had \$733 million in combined current and noncurrent District Cash and Investments as of June 30, 2020, a decrease of \$33 million compared to \$766 million as of June 30, 2019. Components of cash and investments for the year ended June 30, 2020 were:

- Water System total combined current and noncurrent cash and investments decreased by \$26 million compared to the same date of the previous fiscal year. Net increase (decrease) in cash and cash equivalents increased by \$258 million compared to the prior year. This was primarily due to an increase of \$442 million in net proceeds from the sale and purchase of securities in investing activities, and an increase of \$50 million in operating activities offset by an increase of \$239 million in net cash from capital and related financing activities. Net increase (decrease) in noncurrent investments decreased by \$5 million was primarily due to reallocation of investments between short-term and long-term.
- Wastewater System total combined current and noncurrent cash and investments decreased by \$7 million compared to the same date in the previous fiscal year. Net increase (decrease) in cash and cash equivalents decreased by \$24 million compared to the prior year. This was primarily due to a decrease of \$7 million from operating activities, an increase of \$5 million spending to pay-down extended commercial paper in capital and related financing activities, and a decrease of \$13 million from the reallocation of investments between short-term and long-term. Net increase (decrease) in noncurrent investments decreased by \$12 million also primarily due to reallocation of investments between short-term and long-term.

# EAST BAY MUNICIPAL UTILITY DISTRICT

## Management's Discussion and Analysis

June 30, 2020

Table 3 shows the District's cash flow for the fiscal years ended June 30, 2020, 2019, and 2018:

**Table 3**  
Cash Flows  
Water and Wastewater System  
June 30, 2020 and 2019  
(In thousands)

	<u>2020</u>	<u>2019</u>	<u>Variance</u>	<u>%</u>
Cash and cash equivalents:				
Beginning of year	\$ 178,179	\$ 100,943	\$ 77,236	77%
Net cash provided by operating activities	387,106	343,354	43,752	13%
Net cash provided by noncapital financing activities	46,626	41,565	5,061	12%
Net cash provided by (used in) capital and related financing activities	(483,752)	(239,902)	(243,850)	102%
Net cash provided by (used in) investing activities	361,564	(67,781)	429,345	(633)%
Net increase (decrease) in cash and cash equivalents	<u>311,544</u>	<u>77,236</u>	<u>234,308</u>	303%
End of period	<u>\$ 489,723</u>	<u>\$ 178,179</u>	<u>\$ 311,544</u>	175%
Investments:				
Beginning of year	\$ 588,161	\$ 502,698	\$ 85,463	17%
Net increase (decrease) in investments	<u>(345,191)</u>	<u>85,463</u>	<u>(430,654)</u>	(504)%
End of period	<u>\$ 242,970</u>	<u>\$ 588,161</u>	<u>\$ (345,191)</u>	(59)%
Total District Cash and Investments	<u>\$ 732,693</u>	<u>\$ 766,340</u>	<u>\$ (33,647)</u>	(4)%

**Table 3**  
Cash Flows  
Water and Wastewater System  
June 30, 2019 and 2018  
(In thousands)

	<u>2019</u>	<u>2018</u>	<u>Variance</u>	<u>%</u>
Cash and cash equivalents:				
Beginning of year	\$ 100,943	\$ 269,057	\$ (168,114)	(62)%
Net cash provided by operating activities	343,354	342,147	1,207	0%
Net cash provided by noncapital financing activities	41,565	41,480	85	0%
Net cash provided by (used in) capital and related financing activities	(239,902)	(453,499)	213,597	(47)%
Net cash provided by (used in) investing activities	<u>(67,781)</u>	<u>(98,242)</u>	<u>30,461</u>	(31)%
Net increase (decrease) in cash and cash equivalents	<u>77,236</u>	<u>(168,114)</u>	<u>245,350</u>	(146)%
End of period	<u>\$ 178,179</u>	<u>\$ 100,943</u>	<u>\$ 77,236</u>	77%
Investments:				
Beginning of year	\$ 502,698	\$ 398,759	\$ 103,939	26%
Net increase (decrease) in investments	<u>85,463</u>	<u>103,939</u>	<u>(18,476)</u>	(18)%
End of period	<u>\$ 588,161</u>	<u>\$ 502,698</u>	<u>\$ 85,463</u>	17%
Total District Cash and Investments	<u>\$ 766,340</u>	<u>\$ 603,641</u>	<u>\$ 162,699</u>	27%



## EAST BAY MUNICIPAL UTILITY DISTRICT

### Management's Discussion and Analysis

June 30, 2020

#### *Cash and Investments by Fund*

In fiscal years 2020 and 2019, 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: the Water System spent \$24 million in capital reserves to pay down commercial paper and \$5 million in funds received for construction. Wastewater System spent \$5 million in capital reserves to pay down extendable commercial paper.

In the previous fiscal year, significant activities were as follows: Water System increased reserves of \$3 million in working capital, \$172 million in capital reserves to fund capital projects and equipment and use of \$5 million in funds received for construction. Wastewater System increased \$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 to the financial statements.

# EAST BAY MUNICIPAL UTILITY DISTRICT

## Management's Discussion and Analysis

June 30, 2020

Table 4 shows the District's cash and investment by fund for the fiscal years ended June 30, 2020, 2019, and 2018:

**Table 4**

Cash and Investment by Fund

Water and Wastewater

June 30, 2020 and 2019

(In thousands)

	Water System		Wastewater System		Total		Increase (decrease)	
	2020	2019	2020	2019	2020	2019	Amount	%
<b>Unrestricted cash and investment</b>								
Operating reserves:								
Rate stabilization fund	\$ 95,000	\$ 95,000	\$ 24,090	\$ 24,090	\$ 119,090	\$ 119,090	\$ -	0%
Working capital reserve	74,800	72,400	18,800	18,300	93,600	90,700	2,900	3%
Self-insurance	7,753	7,374	1,202	1,116	8,955	8,490	465	5%
Workers compensation	6,099	5,727	945	867	7,044	6,594	450	7%
Total operating reserves	<u>183,652</u>	<u>180,501</u>	<u>45,037</u>	<u>44,373</u>	<u>228,689</u>	<u>224,874</u>	<u>3,815</u>	2%
Capital reserves:								
Reserved for capital projects	384,050	411,964	21,067	38,813	405,117	450,777	(45,660)	(10)%
Reserve funded CIP - Wastewater	-	-	15,336	15,093	15,336	15,093	243	2%
Vehicle replacements	13,484	9,088	-	-	13,484	9,088	4,396	48%
Equipment replacements	2,580	2,657	26,589	17,587	29,169	20,244	8,925	44%
Total capital reserves	<u>400,114</u>	<u>423,709</u>	<u>62,992</u>	<u>71,493</u>	<u>463,106</u>	<u>495,202</u>	<u>(32,096)</u>	(6)%
Total Unrestricted cash and investment	<u>583,766</u>	<u>604,210</u>	<u>108,029</u>	<u>115,866</u>	<u>691,795</u>	<u>720,076</u>	<u>(28,281)</u>	(4)%
<b>Restricted Cash and Investments</b>								
Bond interest and redemption fund	457	844	21	18	478	862	(384)	(45)%
Debt service reserve fund	3,763	3,719	-	-	3,763	3,719	44	1%
Funds received for construction	33,827	38,931	-	-	33,827	38,931	(5,104)	(13)%
FERC partnership fund	2,276	2,203	-	-	2,276	2,203	73	3%
Monetary reserve	554	549	-	-	554	549	5	1%
Total restricted cash and investments	<u>40,877</u>	<u>46,246</u>	<u>21</u>	<u>18</u>	<u>40,898</u>	<u>46,264</u>	<u>(5,366)</u>	(12)%
Total District Cash and Investments	<u>\$ 624,643</u>	<u>\$ 650,456</u>	<u>\$ 108,050</u>	<u>\$ 115,884</u>	<u>\$ 732,693</u>	<u>\$ 766,340</u>	<u>\$ (33,647)</u>	(4)%

**Table 4**

Cash and Investment by Fund

Water and Wastewater

June 30, 2019 and 2018

(In thousands)

	Water System		Wastewater System		Total		Increase (decrease)	
	2019	2018	2019	2018	2019	2018	Amount	%
<b>Unrestricted cash and investment</b>								
Operating reserves:								
Rate stabilization fund	\$ 95,000	\$ 95,000	\$ 24,090	\$ 24,090	\$ 119,090	\$ 119,090	\$ -	0%
Working capital reserve	72,400	69,100	18,300	17,600	90,700	86,700	4,000	5%
Self-insurance	7,374	6,974	1,116	1,135	8,490	8,109	381	5%
Workers compensation	5,727	5,422	867	883	6,594	6,305	289	5%
Total operating reserves	<u>180,501</u>	<u>176,496</u>	<u>44,373</u>	<u>43,708</u>	<u>224,874</u>	<u>220,204</u>	<u>4,670</u>	2%
Capital reserves:								
Reserved for capital projects	411,964	254,186	38,813	35,731	450,777	289,917	160,860	55%
Reserve funded CIP - Wastewater	-	-	15,093	14,803	15,093	14,803	290	2%
Vehicle replacements	9,088	7,387	-	-	9,088	7,387	1,701	23%
Equipment replacements	2,657	3,190	17,587	18,007	20,244	21,197	(953)	(4)%
Total capital reserves	<u>423,709</u>	<u>264,763</u>	<u>71,493</u>	<u>68,541</u>	<u>495,202</u>	<u>333,304</u>	<u>161,898</u>	49%
Total Unrestricted cash and investment	<u>604,210</u>	<u>441,259</u>	<u>115,866</u>	<u>112,249</u>	<u>720,076</u>	<u>553,508</u>	<u>166,568</u>	30%
<b>Restricted Cash and Investments</b>								
Bond interest and redemption fund	844	97	18	18	862	115	747	650%
Debt service reserve fund	3,719	3,654	-	-	3,719	3,654	65	2%
Funds received for construction	38,931	43,659	-	-	38,931	43,659	(4,728)	(11)%
FERC partnership fund	2,203	2,164	-	-	2,203	2,164	39	2%
Monetary reserve	549	541	-	-	549	541	8	1%
Total restricted cash and investments	<u>46,246</u>	<u>50,115</u>	<u>18</u>	<u>18</u>	<u>46,264</u>	<u>50,133</u>	<u>(3,869)</u>	(8)%
Total District Cash and Investments	<u>\$ 650,456</u>	<u>\$ 491,374</u>	<u>\$ 115,884</u>	<u>\$ 112,267</u>	<u>\$ 766,340</u>	<u>\$ 603,641</u>	<u>\$ 162,699</u>	27%

# EAST BAY MUNICIPAL UTILITY DISTRICT

## Management's Discussion and Analysis

June 30, 2020

### **Capital Contributions**

Capital contributions primarily consist of System Capacity Charges (SCCs) and Wastewater Capacity Fees (WCFs). In addition, the District can receive 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 SCCs consist of charges collected from all applicants who request a new water service connection or a larger water meter size. These charges vary depending on geographic region. The SCC pays for the applicant's share of District 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 WCFs are treated as unrestricted funds and pay for the applicant's share of Wastewater facilities including the main wastewater treatment plant, interceptors, and wet weather facilities.

Capital contributions decreased \$34 million or 30% as compared to the previous fiscal year. After a continued high rate of development since fiscal year 2017 and a record high in fiscal year 2019, SCCs decreased by \$20 million and WCFs decreased by \$8 million in fiscal year 2020 reflecting a slowdown in property development. Earned contribution decreased by \$6 million also due to slowdown of construction projects in the Oakland and Berkeley service areas. Grants and other reimbursements remained stable in the current fiscal year compared to the prior year.

Table 5 shows the District's capital contributions received for the fiscal years ended June 30, 2020, 2019, and 2018:

**Table 5**

Capital Contributions  
Water and Wastewater  
June 30, 2020 and 2019  
(In thousands)

	Water System		Wastewater System		Total		Increase (decrease)	
	2020	2019	2020	2019	2020	2019	Amount	%
System capacity charges	\$ 53,307	\$ 73,496	\$ -	\$ -	\$ 53,307	\$ 73,496	\$ (20,189)	(27)%
Wastewater capacity fees	-	-	5,697	13,260	5,697	13,260	(7,563)	(57)%
Earned contributions on construction	17,780	23,750	-	(52)	17,780	23,698	(5,918)	(25)%
Grants and other reimbursements	839	896	-	-	839	896	(57)	(6)%
<b>Totals</b>	<b>\$ 71,926</b>	<b>\$ 98,142</b>	<b>\$ 5,697</b>	<b>\$ 13,208</b>	<b>\$ 77,623</b>	<b>\$ 111,350</b>	<b>\$ (33,727)</b>	<b>(30)%</b>

**Table 5**

Capital Contributions  
Water and Wastewater  
June 30, 2019 and 2018  
(In thousands)

	Water System		Wastewater System		Total		Increase (decrease)	
	2019	2018	2019	2018	2019	2018	Amount	%
System capacity charges	\$ 73,496	\$ 69,270	\$ -	\$ -	\$ 73,496	\$ 69,270	\$ 4,226	6%
Wastewater capacity fees	-	-	13,260	11,418	13,260	11,418	1,842	16%
Earned contributions on construction	23,750	15,518	(52)	16	23,698	15,534	8,164	53%
Grants and other reimbursements	896	2,775	-	-	896	2,775	(1,879)	(68)%
<b>Totals</b>	<b>\$ 98,142</b>	<b>\$ 87,563</b>	<b>\$ 13,208</b>	<b>\$ 11,434</b>	<b>\$ 111,350</b>	<b>\$ 98,997</b>	<b>\$ 12,353</b>	<b>12%</b>

**EAST BAY MUNICIPAL UTILITY DISTRICT**

Management’s Discussion and Analysis

June 30, 2020

**CAPITAL ASSETS**

The District had \$5.2 billion (net of accumulated depreciation) invested in a broad range of utility capital assets as of June 30, 2020. Total capital assets were \$5.1 billion as of June 30, 2019. 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. In the current fiscal year, capital assets increased by \$187 million or 4% over the prior fiscal year. In fiscal year 2019, capital assets increased by \$195 million or 4% over fiscal year 2018. Annual changes are consistent with the District’s capital improvement program.

The Water System had \$4.5 billion (net of accumulated depreciation) invested in a broad range of utility capital assets as of June 30, 2020. 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 \$758 million (net of accumulated depreciation) invested in a broad range of utility capital assets as of June 30, 2020. 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, 2020, 2019, and 2018:

**Table 6**  
Capital Assets, Net of Depreciation  
Water and Wastewater  
June 30, 2020 and 2019  
(In thousands)

	<u>Water System</u>		<u>Wastewater System</u>		<u>Total</u>		<u>Increase/(decrease)</u>	
	<u>2020</u>	<u>2019</u>	<u>2020</u>	<u>2019</u>	<u>2020</u>	<u>2019</u>	<u>Amount</u>	<u>%</u>
Structures, buildings, and equipment	\$ 3,908,424	\$ 3,716,296	\$ 638,147	\$ 651,379	\$ 4,546,571	\$ 4,367,675	\$ 178,896	4.1%
Land and rights of way	73,790	70,917	21,409	21,409	95,199	92,326	2,873	3.1%
Construction work in progress	497,634	522,919	98,466	68,192	596,100	591,111	4,989	0.8%
Totals	<u>\$ 4,479,848</u>	<u>\$ 4,310,132</u>	<u>\$ 758,022</u>	<u>\$ 740,980</u>	<u>\$ 5,237,870</u>	<u>\$ 5,051,112</u>	<u>\$ 186,758</u>	3.7%

# EAST BAY MUNICIPAL UTILITY DISTRICT

## Management's Discussion and Analysis

June 30, 2020

**Table 6 (Continued)**

Capital Assets, Net of Depreciation

Water and Wastewater

June 30, 2019 and 2018

(In thousands)

	Water System		Wastewater System		Total		Increase/(decrease)	
	2019	2018	2019	2018	2019	2018	Amount	%
Structures, buildings, and equipment	\$ 3,716,296	\$ 3,602,573	\$ 651,379	\$ 650,584	\$ 4,367,675	\$ 4,253,157	\$ 114,518	2.7%
Land and rights of way	70,917	65,001	21,409	21,357	92,326	86,358	5,968	6.9%
Construction work in progress	522,919	472,446	68,192	43,946	591,111	516,392	74,719	14.5%
Totals	\$ 4,310,132	\$ 4,140,020	\$ 740,980	\$ 715,887	\$ 5,051,112	\$ 4,855,907	\$ 195,205	4.0%

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:***

Pipeline Infrastructure Renewals	\$ 51,360
Reservoir Rehab/Maintenance	51,005
Treatment Plant Upgrades	40,884
Pumping Plant Rehabilitation	40,164
Open Cut Reservoir Rehab	31,753
Maloney PZ Improvements	24,553
Trench Soils Storage Sites	23,725
Administration Building Modifications	20,811
Additional Supplemental Supply Projects	15,878
Pipeline Infrastructure Renew Historic	15,053
Service Lateral Replacements	14,324
West of Hills Master Plan	14,167
Large Diameter Pipelines	13,649
Mokelumne Aqueduct No 2 & 3 Relining Project	11,125
Raw Water Studies and Improvements	9,978
SRV Recycled Water Program	9,482
WTTIP Water Treatment Plant Improvements	8,714
Pipeline Relocations	6,086
Water Conservation Project	5,737
Raw Water Aqueduct O&M Improvements	5,378

***Wastewater System:***

General Wastewater	\$ 22,270
Interceptors and Pump Stations	20,208
Primary Treatment	14,193
Digesters	14,091
Preliminary Treatment	6,825
Power Generation and Biogas	3,847
Resource Recovery	3,302
Wet Weather Facilities	3,047
Utilities and Sitework	2,884
Effluent Discharge	2,481
Electricals and Controls	1,977
Nutrients	1,832

# EAST BAY MUNICIPAL UTILITY DISTRICT

## Management's Discussion and Analysis

June 30, 2020

### DEBT ADMINISTRATION

The District had total long-term debt outstanding of \$3.4 billion as of June 30, 2020, a 3% decrease from June 30, 2019. Total long-term debt outstanding was \$3.5 billion as of June 30, 2019, a 4% increase from June 30, 2018. Components of the District's long-term debt portfolio as of June 30, 2020 are:

- The Water System had total long-term debt outstanding of \$3.0 billion.
- The Wastewater System had total long-term debt outstanding of \$394 million.

Table 7 shows the District's long-term debt outstanding for the fiscal years ended June 30, 2020, 2019, and 2018:

**Table 7**  
Long -Term Debt  
(Net of Unamortized Costs)  
Water and Wastewater  
June 30, 2020 and 2019  
(In thousands)

	Water System		Wastewater System		Total		Increase (decrease)	
	2020	2019	2020	2019	2020	2019	Amount	%
Revenue bonds*	\$ 2,639,641	\$ 2,733,864	\$ 383,781	\$ 398,605	\$ 3,023,422	\$ 3,132,469	\$ (109,047)	(3)%
Commercial paper	335,800	359,800	10,000	15,000	345,800	374,800	(29,000)	(8)%
Loans	35,069	12,886	-	-	35,069	12,886	22,183	172%
<b>Totals</b>	<b>\$ 3,010,510</b>	<b>\$ 3,106,550</b>	<b>\$ 393,781</b>	<b>\$ 413,605</b>	<b>\$ 3,404,291</b>	<b>\$ 3,520,155</b>	<b>\$ (115,864)</b>	<b>(3)%</b>

**Table 7**  
Long -Term Debt  
(Net of Unamortized Costs)  
Water and Wastewater  
June 30, 2019 and 2018  
(In thousands)

	Water System		Wastewater System		Total		Increase (decrease)	
	2019	2018	2019	2018	2019	2018	Amount	%
Revenue bonds*	\$ 2,733,864	\$ 2,592,137	\$ 398,605	\$ 407,937	\$ 3,132,469	\$ 3,000,074	\$ 132,395	4%
Commercial paper	359,800	359,800	15,000	15,000	374,800	374,800	-	0%
Loans	12,886	14,061	-	-	12,886	14,061	(1,175)	(8)%
<b>Totals</b>	<b>\$ 3,106,550</b>	<b>\$ 2,965,998</b>	<b>\$ 413,605</b>	<b>\$ 422,937</b>	<b>\$ 3,520,155</b>	<b>\$ 3,388,935</b>	<b>\$ 131,220</b>	<b>4%</b>

\*Includes unamortized bond premium and discount. For Water System, the unamortized bond premium was \$243 million, \$272 million, and \$232 million as of June 30, 2020, 2019 and 2018, respectively. For Wastewater System, the net of unamortized bond premium and discount was \$25 million, \$29 million, and \$28 million as of June 30, 2020, 2019 and 2018, respectively.

## EAST BAY MUNICIPAL UTILITY DISTRICT

### Management's Discussion and Analysis

June 30, 2020

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, 2020, the coverage ratio for Water was 2.28 and for Wastewater was 2.59; the overall District ratio was 2.32.

*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, 2020, the percentage of debt-funded capital spending for Water was 34% and for Wastewater was 10%; the overall District percentage was 31%.

*Extendable Commercial Paper and Un-hedged Variable Rate Debt:* Maintain an annual limit of 25% of outstanding long-term debt. As of June 30, 2020, the percentage of extended commercial paper and un-hedged variable rate debt compared to total outstanding long-term debt for Water was 12% and for Wastewater was 3%; the overall District percentage was 11%.

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, 2020, the Water System had \$602 million and the Wastewater System had \$186 million in authorized but unissued revenue bonds.

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

**Table 8**  
Credit Ratings  
Water and Wastewater  
June 30, 2020

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/A-1+	VMIG-1	-
Commercial Paper Notes	A-1+	P-1	-
Wastewater system:			
Fixed Rate Revenue Bonds	AAA	Aa1	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>.

Additional information on the District's long-term debt can be found in Note 7 to the financial statements.

# **EAST BAY MUNICIPAL UTILITY DISTRICT**

## **Management's Discussion and Analysis**

June 30, 2020

### **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>.



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EAST BAY MUNICIPAL UTILITY DISTRICT  
BALANCE SHEETS  
JUNE 30, 2020 AND JUNE 30, 2019  
(DOLLARS IN THOUSANDS)

	Water System		Wastewater System		Total	
	June 30, 2020	June 30, 2019	June 30, 2020	June 30, 2019	June 30, 2020	June 30, 2019
Assets						
Current assets:						
Cash and cash equivalents (Note 2)	\$ 371,488	\$ 79,978	\$ 89,651	\$ 85,743	\$ 461,139	\$ 165,721
Investments	212,278	524,232	18,378	30,123	230,656	554,355
Receivables:						
Customer	55,257	49,972	6,684	6,630	61,941	56,602
Interest and other	2,915	5,439	3,171	3,205	6,086	8,644
Materials and supplies	12,732	10,211	5,476	4,870	18,208	15,081
Prepaid insurance	1,642	1,372	335	250	1,977	1,622
<b>Total current assets</b>	<b>656,312</b>	<b>671,204</b>	<b>123,695</b>	<b>130,821</b>	<b>780,007</b>	<b>802,025</b>
Noncurrent assets:						
Restricted assets (Note 2):						
Cash and cash equivalents	28,563	12,440	21	18	28,584	12,458
Investments	12,314	33,806	-	-	12,314	33,806
<b>Total restricted cash and investments</b>	<b>40,877</b>	<b>46,246</b>	<b>21</b>	<b>18</b>	<b>40,898</b>	<b>46,264</b>
Other assets:						
Equity in JPA partnership fund	223,006	226,285	-	-	223,006	226,285
Other	83	193	505	288	588	481
<b>Total other assets</b>	<b>223,089</b>	<b>226,478</b>	<b>505</b>	<b>288</b>	<b>223,594</b>	<b>226,766</b>
Capital assets (Note 3):						
Structures, buildings, and equipment	5,967,045	5,662,348	1,138,487	1,128,130	7,105,532	6,790,478
Intangible assets	365,341	359,487	40,223	38,496	405,564	397,983
Less accumulated depreciation/amortization	(2,423,962)	(2,305,539)	(540,563)	(515,247)	(2,964,525)	(2,820,786)
<b>Subtotal</b>	<b>3,908,424</b>	<b>3,716,296</b>	<b>638,147</b>	<b>651,379</b>	<b>4,546,571</b>	<b>4,367,675</b>
Land and rights-of-way	73,790	70,917	21,409	21,409	95,199	92,326
Construction in progress	497,634	522,919	98,466	68,192	596,100	591,111
<b>Total capital assets, net</b>	<b>4,479,848</b>	<b>4,310,132</b>	<b>758,022</b>	<b>740,980</b>	<b>5,237,870</b>	<b>5,051,112</b>
<b>Total noncurrent assets</b>	<b>4,743,814</b>	<b>4,582,856</b>	<b>758,548</b>	<b>741,286</b>	<b>5,502,362</b>	<b>5,324,142</b>
<b>Total assets</b>	<b>5,400,126</b>	<b>5,254,060</b>	<b>882,243</b>	<b>872,107</b>	<b>6,282,369</b>	<b>6,126,167</b>
Deferred outflow of resources						
Accumulated decrease in fair value of hedging derivatives	40,513	26,819	-	-	40,513	26,819
Debt refundings related (Note 7)	6,644	17,427	-	1,234	6,644	18,661
Pension related	130,560	128,283	21,531	21,556	152,091	149,839
OPEB related	13,916	9,158	2,259	1,515	16,175	10,673
Total deferred outflows	191,633	181,687	23,790	24,305	215,423	205,992
<b>Total assets and deferred outflows</b>	<b>\$ 5,591,759</b>	<b>\$ 5,435,747</b>	<b>\$ 906,033</b>	<b>\$ 896,412</b>	<b>\$ 6,497,792</b>	<b>\$ 6,332,159</b>

(Continued)

EAST BAY MUNICIPAL UTILITY DISTRICT  
BALANCE SHEETS  
JUNE 30, 2020 AND JUNE 30, 2019  
(DOLLARS IN THOUSANDS)

Liabilities and Net Position	Water System		Wastewater System		Totals	
	June 30, 2020	June 30, 2019	June 30, 2020	June 30, 2019	June 30, 2020	June 30, 2019
<b>Current liabilities:</b>						
Current maturities of long-term debt and commercial paper (Note 6 and 7)	\$ 69,260	\$ 66,638	\$ 10,955	\$ 10,860	\$ 80,215	\$ 77,498
Accounts payable and accrued expenses (Note 4)	60,793	49,557	6,455	9,234	67,248	58,791
Compensated absences (Note 5)	34,256	29,282	5,805	5,224	40,061	34,506
Current reserve for claims	10,018	9,571	820	622	10,838	10,193
Accrued interest	10,022	10,392	1,497	1,548	11,519	11,940
<b>Total current liabilities</b>	<b>184,349</b>	<b>165,440</b>	<b>25,532</b>	<b>27,488</b>	<b>209,881</b>	<b>192,928</b>
<b>Noncurrent liabilities:</b>						
<b>Other liabilities:</b>						
Advances for construction	13,535	18,982	-	-	13,535	18,982
Reserve for claims	32,251	35,464	4,242	3,734	36,493	39,198
Net pension liability	469,634	430,703	79,015	73,797	548,649	504,500
Net OPEB liability	113,732	111,851	19,139	19,157	132,871	131,008
Other liabilities	12,632	12,785	5,967	6,532	18,599	19,317
<b>Total other liabilities</b>	<b>641,784</b>	<b>609,785</b>	<b>108,363</b>	<b>103,220</b>	<b>750,147</b>	<b>713,005</b>
Long-term liabilities, net of current maturities (Note 7)	2,941,250	3,039,912	382,826	402,745	3,324,076	3,442,657
<b>Total noncurrent liabilities</b>	<b>3,583,034</b>	<b>3,649,697</b>	<b>491,189</b>	<b>505,965</b>	<b>4,074,223</b>	<b>4,155,662</b>
<b>Total liabilities</b>	<b>3,767,383</b>	<b>3,815,137</b>	<b>516,721</b>	<b>533,453</b>	<b>4,284,104</b>	<b>4,348,590</b>
Deferred inflow of resources:						
Derivative instrument	40,513	26,819	-	-	40,513	26,819
Pension related	23,993	47,420	5,598	9,546	29,591	56,966
OPEB related	8,398	8,851	1,779	1,671	10,177	10,522
<b>Total deferred inflows</b>	<b>72,904</b>	<b>83,090</b>	<b>7,377</b>	<b>11,217</b>	<b>80,281</b>	<b>94,307</b>
<b>Total liabilities and deferred inflows</b>	<b>3,840,287</b>	<b>3,898,227</b>	<b>524,098</b>	<b>544,670</b>	<b>4,364,385</b>	<b>4,442,897</b>
<b>Net position (Note 8):</b>						
Net investment in capital assets	1,475,981	1,221,010	364,241	328,609	1,840,222	1,549,619
Restricted for construction	20,292	19,949	-	-	20,292	19,949
Restricted for debt service	4,220	4,564	21	18	4,241	4,582
Restricted for JPA	223,006	226,285	-	-	223,006	226,285
Restricted - other	2,831	2,751	-	-	2,831	2,751
Unrestricted	25,142	62,961	17,673	23,115	42,815	86,076
<b>Total net position</b>	<b>1,751,472</b>	<b>1,537,520</b>	<b>381,935</b>	<b>351,742</b>	<b>2,133,407</b>	<b>1,889,262</b>
<b>Total liabilities and net position</b>	<b>\$ 5,591,759</b>	<b>\$ 5,435,747</b>	<b>\$ 906,033</b>	<b>\$ 896,412</b>	<b>\$ 6,497,792</b>	<b>\$ 6,332,159</b>

See accompanying notes to basic financial statements

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EAST BAY MUNICIPAL UTILITY DISTRICT  
STATEMENTS OF REVENUES, EXPENSES, AND CHANGES IN NET POSITION  
FOR THE YEARS ENDED JUNE 30, 2020 AND 2019  
(DOLLARS IN THOUSANDS)

	Water System		Wastewater System		Total	
	June 30 2020	June 30 2019	June 30 2020	June 30 2019	June 30 2020	June 30 2019
Operating revenue:						
Water	\$ 567,394	\$ 520,344	\$ -	\$ -	\$ 567,394	\$ 520,344
Sewer	-	-	91,956	90,323	91,956	90,323
Power	6,308	10,730	915	542	7,223	11,272
Wet weather facilities charges	-	-	27,090	25,113	27,090	25,113
<b>Total operating revenue</b>	<b>573,702</b>	<b>531,074</b>	<b>119,961</b>	<b>115,978</b>	<b>693,663</b>	<b>647,052</b>
Operating expense:						
Raw water	53,246	44,626	-	-	53,246	44,626
Water treatment and distribution	126,647	117,557	-	-	126,647	117,557
Recreation areas, net	6,674	6,126	-	-	6,674	6,126
Sewer lines and pumping	-	-	16,365	15,881	16,365	15,881
Sewer treatment plant operations	-	-	41,504	37,954	41,504	37,954
Customer accounting and collecting	17,391	17,929	2,531	2,353	19,922	20,282
Financial and risk management	24,752	22,415	798	654	25,550	23,069
Facilities management	5,980	5,020	-	-	5,980	5,020
General administration	25,728	30,871	5,994	5,972	31,722	36,843
Pension expense	13,228	14,575	1,295	(3,684)	14,523	(18,259)
OPEB expense	(3,329)	(2,807)	(655)	(505)	(3,984)	(3,312)
Depreciation on utility plant and vehicle	113,065	108,918	23,566	23,079	136,631	131,997
Amortization	11,575	12,680	1,677	1,721	13,252	14,401
<b>Total operating expense</b>	<b>394,957</b>	<b>348,760</b>	<b>93,075</b>	<b>83,425</b>	<b>488,032</b>	<b>432,185</b>
<b>Net operating income (loss)</b>	<b>178,745</b>	<b>182,314</b>	<b>26,886</b>	<b>32,553</b>	<b>205,631</b>	<b>214,867</b>
Other income (expense):						
Investment income	13,056	15,165	1,846	2,940	14,902	18,105
Taxes and subventions	40,337	35,709	6,289	5,856	46,626	41,565
Interest and amortization of bond expenses, net of	-	-	-	-	-	-
capitalized interest of \$10,896 and \$10,406 for the Water	-	-	-	-	-	-
System and \$967 and \$668 for the Wastewater	-	-	-	-	-	-
System in 2020 and 2019, respectively	(98,605)	(103,157)	(14,901)	(16,417)	(113,506)	(119,574)
Hedge fund termination	-	-	-	-	-	-
Increase (decrease) of equity in JPA partnership fund	(3,325)	(3,545)	-	-	(3,325)	(3,545)
Other income	11,818	11,823	4,376	4,105	16,194	15,928
<b>Total other income (expense), net</b>	<b>(36,719)</b>	<b>(44,005)</b>	<b>(2,390)</b>	<b>(3,516)</b>	<b>(39,109)</b>	<b>(47,521)</b>
<b>Income before capital contributions</b>	<b>142,026</b>	<b>138,309</b>	<b>24,496</b>	<b>29,037</b>	<b>166,522</b>	<b>167,346</b>
Capital contributions	71,926	98,142	5,697	13,208	77,623	111,350
<b>Change in net position</b>	<b>213,952</b>	<b>236,451</b>	<b>30,193</b>	<b>42,245</b>	<b>244,145</b>	<b>278,696</b>
<b>Total net position - beginning</b>	<b>1,537,520</b>	<b>1,320,779</b>	<b>351,742</b>	<b>309,111</b>	<b>1,889,262</b>	<b>1,629,890</b>
Prior period adjustment - Debt Refunding	-	(19,710)	-	(4,092)	-	(23,802)
Changes in accounting estimates	-	-	-	4,478	-	4,478
<b>Total net position - ending</b>	<b>\$ 1,751,472</b>	<b>\$ 1,537,520</b>	<b>\$ 381,935</b>	<b>\$ 351,742</b>	<b>\$ 2,133,407</b>	<b>\$ 1,889,262</b>

See accompanying notes to basic financial statements

EAST BAY MUNICIPAL UTILITY DISTRICT  
STATEMENTS OF CASH FLOWS  
FOR THE YEARS ENDED JUNE 30, 2020 AND 2019  
(DOLLARS IN THOUSANDS)

	Water System		Wastewater System		Total	
	June 30 2020	June 30 2019	June 30 2020	June 30 2019	June 30 2020	June 30 2019
Cash flows from operating activities						
Cash received from customers	\$ 568,417	\$ 527,334	\$ 119,907	\$ 115,441	\$ 688,324	\$ 642,775
Cash received from other income	11,818	11,823	4,376	4,105	16,194	15,928
Cash payments for judgments and claims	(11,128)	(9,638)	(184)	(133)	(11,312)	(9,771)
Cash payments to suppliers for goods and services	(39,433)	(55,693)	(37,578)	(26,990)	(77,011)	(82,683)
Cash payments to employees for services	(196,416)	(191,007)	(32,673)	(31,888)	(229,089)	(222,895)
<b>Net cash provided by operating activities</b>	<b>333,258</b>	<b>282,819</b>	<b>53,848</b>	<b>60,535</b>	<b>387,106</b>	<b>343,354</b>
Cash flows from noncapital financing activities:						
Tax receipts	40,337	35,709	6,289	5,856	46,626	41,565
<b>Net cash provided by noncapital financing activities</b>	<b>40,337</b>	<b>35,709</b>	<b>6,289</b>	<b>5,856</b>	<b>46,626</b>	<b>41,565</b>
Capital and related financing activities:						
Capital contributions	71,926	98,142	5,697	13,208	77,623	111,350
Payments from advances for construction	(5,447)	(4,682)	-	-	(5,447)	(4,682)
Proceeds from sale of capital assets	1,393	1,144	-	-	1,393	1,144
Net proceeds and premiums from sale of bonds	-	201,324	-	-	-	201,324
Proceeds received from SRF loans	23,783	-	-	-	23,783	-
Acquisition and construction of capital assets	(297,217)	(294,282)	(42,284)	(49,892)	(339,501)	(344,174)
Change in Investment in JPA	(46)	-	-	-	(46)	-
Principal retirement on long-term debt and commercial paper	(109,040)	(52,329)	(18,590)	(8,364)	(127,630)	(60,693)
Costs and discounts from issuance on long-term debt	-	(662)	-	-	-	(662)
Interest paid on long-term debt	(98,975)	(122,960)	(14,952)	(20,549)	(113,927)	(143,509)
<b>Net cash provided by (used in) capital and related financing activities</b>	<b>(413,623)</b>	<b>(174,305)</b>	<b>(70,129)</b>	<b>(65,597)</b>	<b>(483,752)</b>	<b>(239,902)</b>
Cash flows from investing activities:						
Proceeds from securities	925,777	336,365	54,302	43,502	980,079	379,867
Expenditures from purchases of securities	(592,330)	(446,002)	(42,557)	(19,328)	(634,887)	(465,330)
Interest received on investments	14,214	14,859	2,158	2,823	16,372	17,682
<b>Net cash (used in) provided by investing activities</b>	<b>347,661</b>	<b>(94,778)</b>	<b>13,903</b>	<b>26,997</b>	<b>361,564</b>	<b>(67,781)</b>
<b>Net increase (decrease) in cash and cash equivalents</b>	<b>307,633</b>	<b>49,445</b>	<b>3,911</b>	<b>27,791</b>	<b>311,544</b>	<b>77,236</b>
Cash and cash equivalents:						
<b>Beginning of year</b>	<b>92,418</b>	<b>42,973</b>	<b>85,761</b>	<b>57,970</b>	<b>178,179</b>	<b>100,943</b>
<b>End of year</b>	<b>400,051</b>	<b>92,418</b>	<b>89,672</b>	<b>85,761</b>	<b>489,723</b>	<b>178,179</b>

(Continued)

EAST BAY MUNICIPAL UTILITY DISTRICT  
STATEMENTS OF CASH FLOWS  
FOR THE YEARS ENDED JUNE 30, 2020 AND 2019  
(DOLLARS IN THOUSANDS)

	Water System		Wastewater System		Total	
	June 30 2020	June 30 2019	June 30 2020	June 30 2019	June 30 2020	June 30 2019
Reconciliation of net operating (loss) income to net cash provided by operating activities:						
Net operating income (loss)	\$ 178,745	\$ 182,314	\$ 26,886	\$ 32,553	\$ 205,631	\$ 214,867
Adjustments to reconcile net operating income to net cash provided by operating activities:						
Pension expense	13,228	(14,575)	1,295	(3,684)	14,523	(18,259)
OPEB expense	(3,329)	(2,807)	(655)	(505)	(3,984)	(3,312)
Depreciation on utility plant and vehicle	113,065	108,918	23,566	23,079	136,631	131,997
Depreciation within recreation area	1,466	1,428			1,466	1,428
Amortization on intangible assets	11,575	12,680	1,749	1,793	13,324	14,473
Amortization on deferred quality control services	-	-	(72)	(72)	(72)	(72)
Other income	11,818	11,823	4,376	4,105	16,194	15,928
Changes in assets/liabilities:						
Materials and supplies	(2,521)	(310)	(606)	(392)	(3,127)	(702)
Prepaid insurance	(270)	(103)	(85)	(2)	(355)	(105)
Customer receivables	(5,285)	(3,740)	(54)	(537)	(5,339)	(4,277)
Other assets	1,476	(1,437)	(495)	(197)	981	(1,634)
Reserve for claims	(2,766)	(1,062)	706	(548)	(2,060)	(1,610)
Accounts payable and accrued expenses	16,056	(10,310)	(2,763)	4,942	13,293	(5,368)
Net cash provided by operating activities	\$ 333,258	\$ 282,819	\$ 53,848	\$ 60,535	\$ 387,106	\$ 343,354

Schedule of Non-cash Activities  
Change in fair value

	\$ 1,844	\$ 1,299	\$ 119	\$ 109	\$ 1,963	\$ 1,408
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See accompanying notes to basic financial statements

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**EAST BAY MUNICIPAL UTILITY DISTRICT**  
**STATEMENTS OF FIDUCIARY NET POSITION**  
**FIDUCIARY FUND - PENSION AND OTHER EMPLOYEE BENEFIT TRUST**  
**JUNE 30, 2020 AND 2019**  
**(DOLLARS IN THOUSANDS)**

	<b>2020</b>	<b>2019</b>
<b>Assets:</b>		
Cash and cash equivalents, at fair value (Note 2)	\$ 57,852	\$ 42,729
Invested securities lending collateral (Note 2)	80,731	48,857
Prepaid expenses	575	560
Receivables:		
Brokers, securities sold	475	1,647
Employer	2,246	1,674
Plan members	484	357
Interest, dividends and recoverable taxes	4,707	4,300
<b>Total Receivables</b>	<b>7,912</b>	<b>7,978</b>
Investments, at fair value (Note 2):		
U.S. government obligations	143,915	95,799
Municipal bonds	705	1,871
Domestic corporate bonds	298,975	342,052
International bonds	19,793	23,291
Domestic stocks	849,826	819,025
International stocks	397,426	415,642
Real estate	95,649	98,133
<b>Total Investments</b>	<b>1,806,289</b>	<b>1,795,813</b>
<b>Total Assets</b>	<b>1,953,359</b>	<b>1,895,937</b>
<b>Liabilities:</b>		
Accounts payable and accrued expenses	2,396	2,757
Payables to brokers, securities purchased	12,623	11,358
Securities lending collateral (Note 2)	80,731	48,857
<b>Total Liabilities</b>	<b>95,750</b>	<b>62,972</b>
<b>Net Position:</b>		
Restricted for pension benefits	1,813,591	1,792,124
Restricted for post-employment healthcare benefits	44,018	40,841
<b>Total Net Position</b>	<b>\$ 1,857,609</b>	<b>\$ 1,832,965</b>

See Accompanying Notes to Financial Statements

**EAST BAY MUNICIPAL UTILITY DISTRICT**  
**STATEMENTS OF CHANGES IN FIDUCIARY NET POSITION**  
**FIDUCIARY FUND - PENSION AND OTHER EMPLOYEE BENEFIT TRUST**  
**FOR THE YEARS ENDED JUNE 30, 2020 AND 2019**  
(DOLLARS IN THOUSANDS)

	<b>2020</b>	<b>2019</b>
<b>Additions:</b>		
Contributions:		
Employers	\$ 88,734	\$ 84,551
Plan members	18,885	17,865
<b>Total Contributions</b>	<b>107,619</b>	<b>102,416</b>
<b>Investment Income:</b>		
Net appreciation (depreciation) in fair value investments:		
Traded securities	13,251	67,474
Real estate	688	1,667
Interest	14,341	11,295
Dividends	16,360	17,785
Real estate operating income, net	1,990	1,245
<b>Total Investment Income</b>	<b>46,630</b>	<b>99,466</b>
Less:		
Investment expense	(4,864)	(4,993)
Borrowers' rebates and other agent fees on securities lending transactions	(903)	(1,219)
Net Investment Income	<b>40,863</b>	<b>93,254</b>
<b>Total Additions, net</b>	<b>148,482</b>	<b>195,670</b>
<b>Deductions:</b>		
Benefits paid	121,889	114,168
Refunds of contributions	462	267
Administrative expenses	1,487	1,510
<b>Total Deductions</b>	<b>123,838</b>	<b>115,945</b>
<b>Changes in Net Position</b>	<b>24,644</b>	<b>79,725</b>
<b>Net Position - Beginning of the Year</b>	<b>1,832,965</b>	<b>1,753,240</b>
<b>Net Position - End of the Year</b>	<b>\$ 1,857,609</b>	<b>\$ 1,832,965</b>

See Accompanying Notes to Financial Statements

**EAST BAY MUNICIPAL UTILITY DISTRICT  
NOTES TO BASIC FINANCIAL STATEMENTS  
FOR THE YEARS ENDED JUNE 30, 2020 AND 2019  
(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, 2019.

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.

**EAST BAY MUNICIPAL UTILITY DISTRICT  
NOTES TO BASIC FINANCIAL STATEMENTS  
FOR THE YEARS ENDED JUNE 30, 2020 AND 2019  
(Dollars in Thousands)**

**NOTE 1 - SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES (Continued)**

Additionally, the District reports the following fiduciary fund:

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, 2020 AND 2019  
(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  
FOR THE YEARS ENDED JUNE 30, 2020 AND 2019  
(Dollars in Thousands)**

**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) and shall continue so long as EBMUD pays applicable rates and charges consistent with applicable law. Payments under the contract include reimbursement for operation and maintenance costs based on the amounts of water delivered to EBMUD, the Operation & Maintenance Deficit (EBMUD's current balance is \$5,666), and prepayment of allocated capital costs for CVP storage and conveyance facilities (EBMUD's current estimated allocation is \$3,057). 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  
FOR THE YEARS ENDED JUNE 30, 2020 AND 2019  
(Dollars in Thousands)**

**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.
- 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.
- Bond Interest and Redemption fund is utilized, 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 as required under the District's bond indentures. 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.
- 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 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 or 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.
- 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.

**EAST BAY MUNICIPAL UTILITY DISTRICT  
NOTES TO BASIC FINANCIAL STATEMENTS  
FOR THE YEARS ENDED JUNE 30, 2020 AND 2019  
(Dollars in Thousands)**

**NOTE 1 - SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES (Continued)**

- 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.
- 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.

***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.

***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.



**EAST BAY MUNICIPAL UTILITY DISTRICT  
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**NOTE 1 - SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES (Continued)**

***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.

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, 2020, 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, 2020, there were no violations of legal or contractual provisions, and no borrower or lending agent default losses known to the securities lending agent.

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**NOTE 1 - SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES (Continued)**

In lending securities, cash collateral is invested in the lending agent's short-term investment pool, which as of June 30, 2020, had a weighted average maturity of 31 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 77 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, 2020, the fair value of securities on loan was \$78,660. The total cash and noncash collateral held by the System's custodian to secure these securities on loan was valued at \$80,731 (all cash collateral).

***M. Material and Supplies***

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

***N. 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.

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**NOTE 1 - SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES (Continued)**

***O. 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.

***P. 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.

***Q. 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.

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.

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

**A. Classification**

Reconciliations of cash and investments reported on the financial statements as of June 30, 2020, are as follows:

<i><b>District Enterprise Funds:</b></i>	Water System	Wastewater System	Total
Cash and investments included in current assets	\$ 583,766	\$ 108,029	\$ 691,795
Cash and investments included in restricted investments	40,877	21	40,898
Total District cash and investments	624,643	108,050	732,693
Less investments	(224,592)	(18,378)	(242,970)
Cash and cash equivalents	<u>\$ 400,051</u>	<u>\$ 89,672</u>	<u>\$ 489,723</u>

<i><b>System Pension Trust Funds:</b></i>	Pension Plan Benefits	Post-employment Healthcare Benefits	Total
Cash and cash equivalents	\$ 56,506	\$ 1,346	\$ 57,852
Invested securities lending collateral	78,852	1,879	80,731
Retirement system investments	1,764,250	42,039	1,806,289
Total System cash and investments	<u>\$ 1,899,608</u>	<u>\$ 45,264</u>	<u>\$ 1,944,872</u>

Reconciliations of cash and investments reported on the financial statements as of June 30, 2019, are as follows:

<i><b>District Enterprise Funds:</b></i>	Water System	Wastewater System	Total
Cash and investments included in current assets	\$ 604,210	\$ 115,866	\$ 720,076
Cash and investments included in restricted investments	46,246	18	46,264
Total District cash and investments	650,456	115,884	766,340
Less investments	(558,038)	(30,123)	(588,161)
Cash and cash equivalents	<u>\$ 92,418</u>	<u>\$ 85,761</u>	<u>\$ 178,179</u>

<i><b>System Pension Trust Funds:</b></i>	Pension Plan Benefits	Post-employment Healthcare Benefits	Total
Cash and cash equivalents	\$ 41,794	\$ 935	\$ 42,729
Invested securities lending collateral	47,787	1,070	48,857
Retirement system investments	1,756,501	39,312	1,795,813
Total System cash and investments	<u>\$ 1,846,082</u>	<u>\$ 41,317</u>	<u>\$ 1,887,399</u>

**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.

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**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%	40% in each Agency
State of California Local Agency Investment Fund (LAIF Pool)	N/A	N/A	\$75,000	N/A
California Asset Management Program (CAMP)	N/A	AAAm	40%	20%
Investment Trust of California (CalTRUST)	N/A	AAAm	40%	20%
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+ and A	20%	5% of portfolio or 10%
Medium Term Corporate Notes	5 Years	AA- and A	20%	5%
Repurchase Agreements	270 Days	N/A	20%	N/A
Municipal Bonds	5 Years	AA- and A	20%	5%
Municipal Notes	N/A	SP-1+	20%	5%

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  
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**NOTE 2 - CASH AND INVESTMENTS (Continued)**

***D. Employees Retirement System Authorized Investment Strategy***

The System's Statement of Investment Policy and Procedures 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's Statement of Investment Policy and Procedures adopted by the System on March 21, 2019.

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.

On March 15, 2018, the System adopted an updated asset allocation, which is shown in the table below.

US Equity	25%
Non-US Equity	25%
Core Fixed Income	20%
Non-Core Fixed Income	5%
Covered Calls	20%
Real Estate	5%

The Director of Finance is authorized to transfer assets as provided in the System's Statement of Investment Policy and Procedures. The Director of Finance is further authorized to withdraw assets from assigned managers as necessary to efficiently meet operating needs.

The core fixed income target allocation (20% of the total portfolio) will primarily consist of U.S. denominated fixed income securities.

The non-core fixed income target allocation (5% of the total portfolio) will primarily consist of U.S. denominated fixed income securities. It is expected that this allocation may have a material allocation to below investment grade securities.

The domestic equity allocation target (25% of the total portfolio) will consist of the allocation to securities that corresponds to the weight of securities within the Russell 3000 Index.

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.

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**NOTE 2 - CASH AND INVESTMENTS (Continued)**

The international equity target allocation (25% of the total portfolio) will consist of the allocation to securities that correspond to the weight of securities within the MSCI ACWI xUS Index for 10% of the total portfolio and of active strategies for 15% of the total portfolio.

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 asset allocation does allow for the fact 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 mandates.

**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, 2020 and 2019:

***District Enterprise Funds:***

The following is a summary of the fair value hierarchy of the fair value of investments of the District as of June 30, 2020:

Investment Type	Level 1	Level 2	Total
<b>Investments by Fair Value Level:</b>			
U.S. Government-Sponsored Enterprise Agencies:			
Non-callable	\$ -	\$ 109,432	\$ 109,432
Callable	-	35,836	35,836
U.S. Treasury Bill	111,977	-	111,977
Corporate Securities	-	57,510	57,510
Municipal Bonds	-	6,201	6,201
Total Investments at Fair Value	<u>111,977</u>	<u>208,979</u>	320,956
<b>Investments Measured at Net Asset Value Per Share:</b>			
California Asset Management Program			136,410
Investment Trust of California			30,015
<b>Investments Measured at Amortized Cost:</b>			
California Local Agency Investment Fund			70,870
Mutual Funds (U.S. Securities)			136,872
Total Investments			<u>695,123</u>
Cash in banks			<u>37,570</u>
Total District Cash and Investments			<u>\$ 732,693</u>

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

In fiscal year 2020, the U.S. Treasury Bill totaling \$111,977, is classified in Level 1 of the fair value hierarchy, is valued using quoted prices in active markets. The U.S. Government-Sponsored Enterprise Agency securities totaled \$145,268, Corporate securities totaled \$57,510, and Municipal Bonds total \$6,201, are 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.

The following is a summary of the fair value hierarchy of the fair value of investments of the District as of June 30, 2019:

Investment Type	Level 2	Total
<b>Investments by Fair Value Level:</b>		
U.S. Government-Sponsored Enterprise Agencies:		
Non-callable	\$ 32,770	\$ 32,770
Callable	471,620	471,620
Corporate Securities	70,455	70,455
Municipal Bonds	13,316	13,316
Total Investments at Fair Value	\$ 588,161	588,161
<b>Investments Measured at Net Asset Value Per Share:</b>		
California Asset Management Program		72,665
<b>Investments Measured at Amortized Cost:</b>		
California Local Agency Investment Fund		61,628
Mutual Funds (U.S. Securities)		3,747
Total Investments		726,201
<i>Cash in banks</i>		40,139
Total District Cash and Investments		\$ 766,340

In fiscal year 2019, the U.S. Government-Sponsored Enterprise Agency securities totaled \$504,390, Corporate securities totaled \$70,455, and Municipal Bonds total \$13,316, are 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:***

The following is a summary of the fair value hierarchy of investments held by the Pension Trust Fund as of June 30, 2020:

Investment Type	Level 1	Level 2	Level 3	Total
<b>Investments by Fair Value:</b>				
Asset Backed Securities	\$ -	\$ 13,094	\$ -	\$ 13,094
Equities	637,430	-	74	637,504
Bank Loans	-	6,684	-	6,684
Commercial Mortgage-Backed	-	6,967	-	6,967
Corporate Bonds	-	233,243	-	233,243
Corporate Convertible Bonds	-	400	-	400
Govt Agencies	-	72,856	-	72,856
Govt Bonds	-	10,577	-	10,577
Govt Mortgage Backed Securities	-	41,210	-	41,210
Index Linked Govt Bonds	-	19,551	-	19,551
Municipal/Provincial Bonds	-	705	-	705
Other Fixed Income	-	23,711	-	23,711
Real Estate-Partnerships	-	-	50,541	50,541
Total Investments at Fair Value	\$ 637,430	\$ 428,998	\$ 50,615	1,117,043
<b>Investments Not Subject to Fair Value Hierarchy:</b>				
Comingled Funds and Other				689,246
Total System Investments				1,806,289
Invested Securities Lending Collateral				80,731
<b>Cash and Cash Equivalents:</b>				
California Local Agency Investment Fund				4,518
Cash & Short-term Investments				53,334
Total System Cash and Investments				\$ 1,944,872

Investments classified in Level 1 of the fair value hierarchy, valued at \$637,430, are valued using quoted prices in active markets. \$428,998 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 \$50,615 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.

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**NOTES TO BASIC FINANCIAL STATEMENTS**  
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**NOTE 2 - CASH AND INVESTMENTS (Continued)**

The following is a summary of the fair value hierarchy of the fair value of investments of the Pension Trust Fund as of June 30, 2019:

Investment Type	Level 1	Level 2	Level 3	Total
<b>Investments by Fair Value:</b>				
Asset Backed Securities	\$ -	\$ 17,742	\$ -	\$ 17,742
Equities	651,192	-	87	651,279
Bank Loans	-	5,986	-	5,986
Commercial Mortgage-Backed	-	9,542	-	9,542
Commercial Paper	-	369	-	369
Corporate Bonds	-	117,786	-	117,786
Corporate Convertible Bonds	-	236	-	236
Govt Agencies	-	24,943	-	24,943
Govt Bonds	-	28,311	-	28,311
Govt Issued Commercial Mortgage-Backed	-	37	-	37
Govt Mortgage Backed Securities	-	38,430	-	38,430
Index Linked Govt Bonds	-	4,770	-	4,770
Municipal/Provincial Bonds	-	1,870	-	1,870
Non-Govt Backed CMO's	-	849	-	849
Other Fixed Income	-	30,079	-	30,079
Real Estate-Partnerships	-	-	46,191	46,191
Total Investments at Fair Value	\$ 651,192	\$ 280,950	\$ 46,278	978,420
<b>Investments Not Subject to Fair Value Hierarchy:</b>				
Comingled Funds and Other				817,393
Total System Investments				1,795,813
Invested Securities Lending Collateral				48,857
<b>Cash and Cash Equivalents:</b>				
California Local Agency Investment Fund				4,958
Cash & Short-term Investments				37,771
Total System Cash and Investments				\$ 1,887,399

During fiscal year 2019, investments classified in Level 1 of the fair value hierarchy, valued at \$651,192, are valued using quoted prices in active markets. \$280,950 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 \$46,278 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.

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

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.

***District Enterprise Funds:***

Information about the sensitivity of the fair value of the District's investments to market interest rate fluctuations is provided in the following table that shows the distribution of the District's investments by maturity or earliest call date for June 30, 2020:

Investment Type	12 Months or less	13 to 24 Months	25 to 60 Months	Total
U.S. Government-Sponsored Enterprise Agencies				
Non-callable	\$ 107,893	\$ 1,539	\$ -	\$ 109,432
Callable	27,387	-	8,449	35,836
U.S. Treasury Bill	111,977	-	-	111,977
Corporate Securities	24,646	22,404	10,460	57,510
Municipal Bonds	5,694	136	371	6,201
Mutual Funds (U.S. Securities)	136,872	-	-	136,872
California Asset Management Program	136,410	-	-	136,410
Investment Trust of California	30,015	-	-	30,015
California Local Agency Investment Fund	70,870	-	-	70,870
<b>Total Investments</b>	<b>\$ 651,764</b>	<b>\$ 24,079</b>	<b>\$ 19,280</b>	<b>695,123</b>
<i>Cash in banks</i>				<u>37,570</u>
<b>Total District Cash and Investments</b>				<b><u>\$ 732,693</u></b>

Information about the sensitivity of the fair value of the District's investments to market interest rate fluctuations is provided in the following table that shows the distribution of the District's investments by maturity or earliest call date for June 30, 2019:

Investment Type	12 Months or less	13 to 24 Months	25 to 60 Months	Total
U.S. Government-Sponsored Enterprise Agencies				
Non-callable	\$ 29,766	\$ 2,003	\$ 1,001	\$ 32,770
Callable	94,862	93,966	282,792	471,620
Corporate Securities	32,251	17,813	20,391	70,455
Municipal Bonds	7,145	5,672	499	13,316
Mutual Funds (U.S. Securities)	3,747	-	-	3,747
California Asset Management Program	72,665	-	-	72,665
California Local Agency Investment Fund	61,628	-	-	61,628
<b>Total Investments</b>	<b>\$ 302,064</b>	<b>\$ 119,454</b>	<b>\$ 304,683</b>	<b>726,201</b>
<i>Cash in banks</i>				<u>40,139</u>
<b>Total District Cash and Investments</b>				<b><u>\$ 766,340</u></b>

**EAST BAY MUNICIPAL UTILITY DISTRICT**  
**NOTES TO BASIC FINANCIAL STATEMENTS**  
**FOR THE YEARS ENDED JUNE 30, 2020 AND 2019**  
**(Dollars in Thousands)**

**NOTE 2 - CASH AND INVESTMENTS (Continued)**

***System Pension Trust Fund:***

Information about the sensitivity of the fair value of the Pension Trust Fund's investments to market interest rate fluctuations is date provided in the following table that shows the distribution of the District's investments by maturity or earliest call for June 30, 2020:

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	\$ -	\$ 10,157	\$ 1,937	\$ 1,000	\$ -	\$ 13,094
Equity Securities	637,504	-	-	-	-	637,504
Bank Loans	-	4,857	1,827	-	-	6,684
Commercial Mortgage-Backed	-	-	300	6,667	-	6,967
Corporate Bonds	1,915	109,039	84,309	37,980	-	233,243
Corporate Convertible Bonds	-	400	-	-	-	400
Govt Agencies	3,769	61,599	2,777	4,711	-	72,856
Govt Bonds	-	2,832	2,369	5,376	-	10,577
Govt Mortgage Backed Securities	-	-	865	40,345	-	41,210
Index Linked Govt Bonds	-	9,176	7,921	2,454	-	19,551
Municipal/Provincial Bonds	-	-	-	705	-	705
Other Fixed Income	1,671	21,079	961	-	-	23,711
Real Estate-Partnerships	-	-	-	-	50,541	50,541
Comingled Funds and Other	-	-	-	-	689,246	689,246
<b>Total System Investments</b>	<b>\$ 644,859</b>	<b>\$ 219,139</b>	<b>\$ 103,266</b>	<b>\$ 99,238</b>	<b>\$ 739,787</b>	<b>\$ 1,806,289</b>

Information about the sensitivity of the fair value of the Pension Trust Fund's investments to market interest rate fluctuations is date provided in the following table that shows the distribution of the District's investments by maturity or earliest call for June 30, 2019:

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	\$ -	\$ 9,138	\$ 6,857	\$ 1,747	\$ -	\$ 17,742
Equity Securities	651,279	-	-	-	-	651,279
Bank Loans	298	2,265	3,423	-	-	5,986
Commercial Mortgage-Backed	-	740	275	8,527	-	9,542
Commercial Paper	369	-	-	-	-	369
Corporate Bonds	7,252	69,097	21,389	19,958	90	117,786
Corporate Convertible Bonds	97	139	-	-	-	236
Govt Agencies	149	4,325	15,604	4,865	-	24,943
Govt Bonds	1,136	9,739	8,176	9,260	-	28,311
Govt Issued Commercial Mortgage-Backed	-	37	-	-	-	37
Govt Mortgage Backed Securities	-	3	1,893	36,534	-	38,430
Index Linked Govt Bonds	-	500	2,879	1,391	-	4,770
Municipal/Provincial Bonds	-	-	-	1,870	-	1,870
Non-Govt Backed CMO's	-	-	158	691	-	849
Other Fixed Income	1,406	28,673	-	-	-	30,079
Real Estate-Partnerships	-	-	-	-	46,191	46,191
Comingled Funds and Other	155	-	-	-	817,238	817,393
<b>Total System Investments</b>	<b>\$ 662,141</b>	<b>\$ 124,656</b>	<b>\$ 60,654</b>	<b>\$ 84,843</b>	<b>\$ 863,519</b>	<b>\$ 1,795,813</b>

**EAST BAY MUNICIPAL UTILITY DISTRICT  
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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, 2020, these investments matured in an average of 180 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 as of June 30, 2020 and 2019:

Highly Sensitive Investments	Fair Value at Year End
Government Mortgage - Backed Securities	\$ 41,210
Commercial Mortgage - Backed Securities	6,967
Highly Sensitive Investments	Fair Value at Year End
Government Mortgage - Backed Securities	\$ 38,430
Commercial Mortgage - Backed Securities	9,542
Government Issued Commercial Mortgage - Backed Securities	37

**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.

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

***District Enterprise Funds:***

Presented below is the actual rating as of June 30, 2020 for each investment type as provided by Moody's.

Investment Type	Aaa	Aa1	Aa2	Aa3	Total
U.S. Government-Sponsored					
Non-Callable	\$ 109,432	\$ -	\$ -	\$ -	\$ 109,432
Callable	35,836	-	-	-	35,836
U.S. Treasury Bill	111,977	-	-	-	111,977
Corporate Securities	5,174	52,117	-	219	57,510
Mutual Funds (U.S. Securities)	136,872	-	-	-	136,872
Totals	<u>\$ 399,291</u>	<u>\$ 52,117</u>	<u>\$ -</u>	<u>\$ 219</u>	451,627
<i>Not rated by Moody's:</i>					
Municipal Bonds					6,201
California Local Agency Investment Fund					70,870
California Asset Management Program					136,410
Investment Trust of California					30,015
Cash in Banks					<u>37,570</u>
Total District Cash and Investments					<u>\$ 732,693</u>

Presented below is the actual rating as of June 30, 2019 for each investment type as provided by Moody's.

Investment Type	Aaa	Aa1	Aa2	Aa3	Total
U.S. Government-Sponsored					
Non-Callable	\$ 32,770	\$ -	\$ -	\$ -	\$ 32,770
Callable	471,620	-	-	-	471,620
Corporate Securities	2,314	63,660	-	4,481	70,455
Municipal Bonds	2,629	-	500	278	3,407
Mutual Funds (U.S. Securities)	3,747	-	-	-	3,747
Totals	<u>\$ 513,080</u>	<u>\$ 63,660</u>	<u>\$ 500</u>	<u>\$ 4,759</u>	581,999
<i>Not rated by Moody's:</i>					
Municipal Bonds					9,909
California Local Agency Investment Fund					61,628
California Asset Management Program					72,665
Cash in Banks					<u>40,139</u>
Total District Cash and Investments					<u>\$ 766,340</u>

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

***System Pension Trust Fund:***

Presented below is the actual rating as of June 30, 2020 for each investment type as provided by Moody's.

Investment Type	Aaa	Aa	A	Baa	Ba	B	Caa	C	U.S. Government		Total
									Guaranteed	Not Rated	
Asset Backed Securities	\$ 5,570	\$ 1,247	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,277	\$ 13,094
Equity Securities	-	-	-	-	-	-	-	-	-	637,504	637,504
Bank Loans	-	-	-	523	2,399	3,003	369	-	-	390	6,684
Commercial Mortgage - Backed Securities	3,624	-	-	527	-	-	-	-	-	2,816	6,967
Corporate Bonds	1,218	13,519	159,451	21,397	16,572	13,747	2,075	50	-	5,214	233,243
Corporate Convertible Bonds	-	-	-	48	-	224	-	-	-	-	400
Government Agencies	43,523	692	-	-	-	-	-	-	26,599	2,042	72,856
Government Bonds	5,612	-	-	1,115	-	-	-	-	3,850	-	10,577
Government Mortgage - Backed Securities	-	-	-	-	-	-	-	-	40,191	1,019	41,210
Index Linked Government Bonds	19,551	-	-	-	-	-	-	-	-	-	19,551
Municipal Bonds	-	705	-	-	-	-	-	-	-	-	705
Other Fixed Income	-	-	-	-	-	-	-	-	-	23,711	23,711
Real Estate - Partnerships	-	-	-	-	-	-	-	-	-	50,541	50,541
Comingled Funds and Other	-	-	-	-	-	-	-	-	-	689,246	689,246
<b>Total System Investments</b>	<b>\$ 79,098</b>	<b>\$ 16,163</b>	<b>\$ 159,451</b>	<b>\$ 23,610</b>	<b>\$ 18,971</b>	<b>\$ 16,974</b>	<b>\$ 2,444</b>	<b>\$ 50</b>	<b>\$ 70,640</b>	<b>\$ 1,418,888</b>	<b>\$ 1,806,289</b>

Presented below is the actual rating as of June 30, 2019 for each investment type as provided by Moody's.

Investment Type	Aaa	Aa	A	Baa	Ba	B	Caa	U.S. Government		Total	
								Guaranteed	Not Rated		
Asset Backed Securities	\$ 9,395	\$ 1,029	\$ 310	\$ 87	\$ -	\$ -	\$ -	\$ -	\$ 6,921	\$ 17,742	
Equity Securities	-	-	-	-	-	-	-	-	-	651,279	651,279
Bank Loans	-	-	-	400	2,548	1,998	-	-	-	1,040	5,986
Commercial Mortgage - Backed Securities	5,042	-	-	526	-	-	-	-	-	3,974	9,542
Commercial Paper	-	-	-	-	-	-	-	-	-	369	369
Corporate Bonds	3,549	11,893	46,360	19,819	19,104	13,976	1,185	-	1,900	117,786	
Corporate Convertible Bonds	-	-	-	-	139	97	-	-	-	-	236
Government Agencies	24,595	-	-	348	-	-	-	-	-	-	24,943
Government Bonds	27,968	-	-	343	-	-	-	-	-	-	28,311
Government Issued Commercial Mortgage - Backed Securities	-	-	-	-	-	-	-	-	37	-	37
Government Mortgage - Backed Securities	-	111	-	-	-	-	-	-	37,969	350	38,430
Index Linked Government Bonds	4,770	-	-	-	-	-	-	-	-	-	4,770
Municipal Bonds	-	1,763	-	-	-	-	-	-	-	107	1,870
Non-Government Backed CMO's	469	121	38	147	-	-	-	-	-	74	849
Other Fixed Income	-	-	-	-	-	-	-	-	-	30,079	30,079
Real Estate - Partnerships	-	-	-	-	-	-	-	-	-	46,191	46,191
Comingled Funds and Other	-	-	-	-	-	-	-	-	-	817,393	817,393
<b>Total System Investments</b>	<b>\$ 75,788</b>	<b>\$ 14,917</b>	<b>\$ 46,708</b>	<b>\$ 21,670</b>	<b>\$ 21,791</b>	<b>\$ 16,071</b>	<b>\$ 1,185</b>	<b>\$ 38,006</b>	<b>\$ 1,559,677</b>	<b>\$ 1,795,813</b>	

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

**NOTE 2 - CASH AND INVESTMENTS (Continued)**

***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 as of June 30, 2020:

***District Enterprise Funds:***

Reporting Unit	Issuer	Investment Type	Reported Amount
District-Wide	APPLE INC.	Corporate Securities	\$ 52,116
	FHLB	Federal Agency Securities	54,991
Major Funds:			
Water System	APPLE INC.	Corporate Securities	49,533
	FHLB	Federal Agency Securities	54,991
Wastewater System	FFCB	Federal Agency Securities	7,009
	FHLMC	Federal Agency Securities	5,370

Significant District investments in the securities of any individual issuers, other than U. S. Treasury securities, LAIF, and mutual funds, are set forth below as of June 30, 2019:

***District Enterprise Funds:***

Reporting Unit	Issuer	Investment Type	Reported Amount
District-Wide	FHLMC	Federal Agency Securities	\$ 133,649
	FNMA	Federal Agency Securities	50,668
	FHLB	Federal Agency Securities	245,614
	FFCB	Federal Agency Securities	73,959
Major Funds:			
Water System	FHLMC	Federal Agency Securities	121,926
	FHLB	Federal Agency Securities	239,129
	FNMA	Federal Agency Securities	46,235
	FFCB	Federal Agency Securities	71,644
Wastewater System	FHLMC	Federal Agency Securities	11,723
	FNMA	Federal Agency Securities	4,433
	FHLB	Federal Agency Securities	6,485



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

***System Pension Trust Fund:***

As of June 30, 2020 and June 30, 2019, 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 \$2,874 and \$4,941 on behalf of the System as of June 30, 2020 and 2019, 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, 2020:

Foreign Currency	Equity Securities Investment Type
Euro	\$ 74,178
British Pound Sterling	22,077
Japanese Yen	46,519
Hong Kong Dollar	16,904
South Korean Won	8,866
Swiss Franc	9,729
Danish Krone	3,263
Canadian Dollar	3,825
Australian Dollar	4,138
Norwegian Krone	3,967
Indonesian Rupiah	1,710
Singapore Dollar	1,272
Total	\$ 196,448

The Fund's investment policy permits it to invest 20% of total investment on foreign currency-denominated investments. The Fund's current position is 10.88%.

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

Presented below in US dollars is the fair market value of the System's foreign investments at June 30, 2019:

<u>Foreign Currency</u>	<u>Equity Securities Investment Type</u>
Euro	\$ 92,700
British Pound Sterling	33,678
Japanese Yen	28,915
Hong Kong Dollar	19,130
South Korean Won	10,605
Swiss Franc	8,140
Danish Krone	5,530
Canadian Dollar	5,147
Australian Dollar	4,382
Norwegian Krone	3,333
Indonesian Rupiah	2,487
Singapore Dollar	1,849
Thai Baht	206
Total	<u>\$ 216,102</u>

The Fund's investment policy permits it to invest 20% of total investment on foreign currency-denominated investments. The Fund's prior year position is 12.03%.

**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.

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**NOTE 2 - CASH AND INVESTMENTS (Continued)**

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, 2020 and 2019, the System's brokers/dealers held \$0 in cash exposed to custodial credit risk.

**K. Joint Powers Authority and Partnership Funds**

**DSRSD/EBMUD Recycled Water Authority** - On June 28, 1995, the Dublin San Ramon Services 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.

**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 during the last drought, the District activated the pumping of water from the Sacramento River via the Freeport facility during Fiscal Year 2015.

**California Asset Management Program (CAMP)** – the District is a participant in the CAMP. CAMP is an investment pool offered by the California Asset Management Trust (the Trust). The Trust is a joint powers authority and public agency created by the Declaration of Trust and established under the provisions of the California Joint Exercise of Powers Act (California Government Code Sections 6500 et seq., or the "Act") for the purpose of exercising the common power of CAMP participants to invest certain proceeds of debt issues and surplus funds. CAMP investments are limited to investments permitted by subdivisions (a) to (n), inclusive, of Section 53601 of the California Government Code. The District reports its investments in CAMP at the fair value amounts provided by CAMP, which is the same as the value of the pool share in accordance with GASB 72 requirements. At June 30, 2020, the fair value was approximate to the District's cost. As of June 30, 2020, the District investment in CAMP is \$136,410.

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

**A. Summary**

The District capitalizes all assets with a historical cost of at least five thousand dollars 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**  
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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, 2020 was as follows:

	Balance at June 30, 2019	Additions and Transfers, net	Retirements and Transfers, net	Balance at June 30, 2020
<b>Water System:</b>				
Capital assets, not being depreciated:				
Land	\$ 67,874	\$ 2,881	\$ (8)	\$ 70,747
Rights-of-way	3,043	-	-	3,043
Construction in progress - land/rights of way	181	3,352	(2,880)	653
Construction in progress	522,738	301,899	(327,656)	496,981
Total capital assets, not being depreciated	593,836	308,132	(330,544)	571,424
Capital assets, being depreciated/amortized:				
Buildings and improvements	246,981	1,060	-	248,041
System and improvements	5,293,075	303,049	(3,606)	5,592,518
Machinery and equipment	122,292	9,690	(5,496)	126,486
Intangible Assets	359,487	5,854	-	365,341
Total capital assets, being depreciated/amortized:	6,021,835	319,653	(9,102)	6,332,386
Less accumulated depreciation/amortization for:				
Buildings and improvements	(118,031)	(5,295)	-	(123,326)
System and improvements	(1,812,568)	(102,563)	2,886	(1,912,245)
Machinery and equipment	(69,690)	(6,673)	4,797	(71,566)
Intangible assets	(305,250)	(11,575)	-	(316,825)
Total accumulated depreciation/amortization	(2,305,539)	(126,106)	7,683	(2,423,962)
Total capital assets, being depreciated/amortized, net	3,716,296	193,547	(1,419)	3,908,424
Water System capital assets, net	\$ 4,310,132	\$ 501,679	\$ (331,963)	\$ 4,479,848
<b>Wastewater System:</b>				
Capital assets, not being depreciated:				
Land	\$ 21,218	\$ -	\$ -	\$ 21,218
Rights-of-way	191	-	-	191
Construction in progress - land/rights of way	130	59	-	189
Construction in progress	68,062	42,299	(12,084)	98,277
Total capital assets, not being depreciated	89,601	42,358	(12,084)	119,875
Capital assets, being depreciated/amortized:				
Buildings and improvements	90,560	371	-	90,931
System and improvements	1,022,481	9,504	-	1,031,985
Machinery and equipment	15,089	482	-	15,571
Intangible assets	38,496	1,727	-	40,223
Total capital assets, being depreciated/amortized:	1,166,626	12,084	-	1,178,710
Less accumulated depreciation/amortization for:				
Buildings and improvements	(41,426)	(1,636)	-	(43,062)
System and improvements	(435,243)	(20,910)	-	(456,153)
Machinery and equipment	(10,381)	(1,020)	-	(11,401)
Intangible assets	(28,197)	(1,750)	-	(29,947)
Total accumulated depreciation/amortization	(515,247)	(25,316)	-	(540,563)
Total capital assets, being depreciated/amortized, net	651,379	(13,232)	-	638,147
Wastewater System capital assets, net	\$ 740,980	\$ 29,126	\$ (12,084)	\$ 758,022
Business-type activities capital assets, net	\$ 5,051,112	\$ 530,805	\$ (344,047)	\$ 5,237,870

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

Capital assets activity for all business-type activities for the year ended June 30, 2019 was as follows:

	Balance at June 30, 2018	Additions and Transfers, net	Retirements and Transfers, net	Balance at June 30, 2019
<b><i>Water System:</i></b>				
Capital assets, not being depreciated:				
Land	\$ 61,958	\$ 5,916	\$ -	\$ 67,874
Rights-of-way	3,043	-	-	3,043
Construction in progress - land/rights of way	178	3	-	181
Construction in progress	472,268	288,149	(237,679)	522,738
Total capital assets, not being depreciated	<u>537,447</u>	<u>294,068</u>	<u>(237,679)</u>	<u>593,836</u>
Capital assets, being depreciated/amortized:				
Buildings and improvements	244,400	2,581	-	246,981
System and improvements	5,083,511	224,673	(15,109)	5,293,075
Machinery and equipment	112,450	13,561	(3,719)	122,292
Intangible assets	349,942	9,545	-	359,487
Total capital assets, being depreciated/amortized:	<u>5,790,303</u>	<u>250,360</u>	<u>(18,828)</u>	<u>6,021,835</u>
Less accumulated depreciation/amortization for:				
Buildings and improvements	(112,373)	(5,658)	-	(118,031)
System and improvements	(1,715,860)	(98,523)	1,815	(1,812,568)
Machinery and equipment	(66,927)	(6,165)	3,402	(69,690)
Intangible assets	(292,570)	(12,680)	-	(305,250)
Total accumulated depreciation/amortization	<u>(2,187,730)</u>	<u>(123,026)</u>	<u>5,217</u>	<u>(2,305,539)</u>
Total capital assets, being depreciated/amortized, net	<u>3,602,573</u>	<u>127,334</u>	<u>(13,611)</u>	<u>3,716,296</u>
Water System capital assets, net	<u>\$ 4,140,020</u>	<u>\$ 421,402</u>	<u>\$ (251,290)</u>	<u>\$ 4,310,132</u>
<b><i>Wastewater System:</i></b>				
Capital assets, not being depreciated:				
Land	\$ 21,166	\$ 52	\$ -	\$ 21,218
Rights-of-way	191	-	-	191
Construction in progress - land/rights of way	327	-	(197)	130
Construction in progress	43,619	50,110	(25,667)	68,062
Total capital assets, not being depreciated	<u>65,303</u>	<u>50,162</u>	<u>(25,864)</u>	<u>89,601</u>
Capital assets, being depreciated/amortized:				
Buildings and improvements	87,522	3,038	-	90,560
System and improvements	1,000,724	21,757	-	1,022,481
Machinery and equipment	14,217	872	-	15,089
Intangible assets	38,496	-	-	38,496
Total capital assets, being depreciated/amortized:	<u>1,140,959</u>	<u>25,667</u>	<u>-</u>	<u>1,166,626</u>
Less accumulated depreciation/amortization for:				
Buildings and improvements	(39,851)	(1,575)	-	(41,426)
System and improvements	(414,690)	(20,553)	-	(435,243)
Machinery and equipment	(9,430)	(951)	-	(10,381)
Intangible assets	(26,404)	(1,793)	-	(28,197)
Total accumulated depreciation/amortization	<u>(490,375)</u>	<u>(24,872)</u>	<u>-</u>	<u>(515,247)</u>
Total capital assets, being depreciated/amortized, net	<u>650,584</u>	<u>795</u>	<u>-</u>	<u>651,379</u>
Wastewater System capital assets, net	<u>\$ 715,887</u>	<u>\$ 50,957</u>	<u>\$ (25,864)</u>	<u>\$ 740,980</u>
Business-type activities capital assets, net	<u>\$ 4,855,907</u>	<u>\$ 472,359</u>	<u>\$ (277,154)</u>	<u>\$ 5,051,112</u>

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

**C. Construction in Progress**

Construction in Progress in fiscal 2019-2020 comprises:

	<u>Expended to Date</u>
<b><i>Water System:</i></b>	
Pipeline Infrastructure Renewals	\$ 51,360
Reservoir Rehab/Maintenance	51,005
Treatment Plant Upgrades	40,884
Pumping Plant Rehabilitation	40,164
Open Cut Reservoir Rehab	31,753
Maloney PZ Improvements	24,553
Trench Soils Storage Sites	23,725
Administration Building Modifications	20,811
Additional Supplemental Supply Projects	15,878
Pipeline Infrastructure Renew Historic	15,053
Service Lateral Replacements	14,324
West of Hills Master Plan	14,167
Large Diameter Pipelines	13,649
Mokelumne Aqueduct No 2 & 3 Relining Project	11,125
Raw Water Studies and Improvements	9,978
SRV Recycled Water Program	9,482
WTTIP Water Treatment Plant Improvements	8,714
Pipeline Relocations	6,086
Water Conservation Project	5,737
Raw Water Aqueduct Operation and Maintenance Improvements	5,379
Other Construction Projects	83,807
	497,634
<b><i>Wastewater System:</i></b>	
General Wastewater	22,270
Interceptors and Pump Stations	20,208
Primary Treatment	14,193
Digesters	14,091
Preliminary Treatment	6,824
Power Generation and Biogas	3,847
Resource Recovery	3,302
Wet Weather Facilities	3,047
Utilities and Sitework	2,884
Effluent Discharge	2,481
Electricals and Controls	1,977
Nutrients	1,831
Secondary	1,657
Treatment Plant Infrastructure	852
South Interceptor Relocation High Street	540
Other Construction Projects	(1,538)
	98,466
Total District Construction in Progress	\$ 596,100

At June 30, 2020, the District's remaining current major project commitments are estimated to be \$105,790 for the Water System and \$22,923 for the Wastewater System.

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

Construction in Progress in fiscal 2018-2019 comprises:

	<u>Expended to Date</u>
<i><b>Water System:</b></i>	
Treatment Plant Upgrades	\$ 86,638
Pipeline Infrastructure Renewals	47,944
Reservoir Rehab/Maintenance	43,092
Open Cut Reservoir Rehab	40,835
Summit Pressure Zone Improvement	35,785
Large Diameter Pipelines	25,774
Pumping Plant Rehabilitation	22,614
Faria PZI (formerly Purdue)	17,224
Additional Supplemental Supply Projects	17,221
Trench Soils Storage Sites	16,734
Service Lateral Replacements	11,744
Maloney PZ Improvements	9,060
Raw Water Studies and Improvements	9,035
SRV Recycled Water Program	8,990
Mokelumne Aqueduct No 2 & 3 Relining Project	8,682
West of Hills Master Plan	8,290
Pipeline Relocations	7,134
Administration Building Modifications	7,002
Water Conservation Project	5,827
Water Capital Costs Misc.	5,433
Other Construction Projects	87,861
	522,919
 <i><b>Wastewater System:</b></i>	
3rd Street Sewer Interceptor Rehab	11,205
Concrete Rehab at Special District 1	9,166
Digester Upgrade	8,065
Treatment Plant Infrastructure	6,648
Routine Capital Equipment Replacement	5,443
PS Q FM Dual-Mode Operation	3,911
Infiltration/Inflow Control Project	3,331
MWWTP Master Planning	2,919
Resource Recovery Project	2,793
Treatment Plant Infrastructure Phase 2	2,723
PGS Engine Overhaul	1,782
Interceptor Corrosion Prevention	1,374
MWWTP Power Distribution System Upgrade	1,207
Pump Station Major Improvement	1,105
Seismic Retrofits	924
Other Construction Projects	5,596
	68,192
Total District Construction in Progress	\$ 591,111

At June 30, 2019, the District's remaining current major project commitments are estimated to be \$86,882 for the Water System and \$16,089 for the Wastewater System.



**EAST BAY MUNICIPAL UTILITY DISTRICT  
NOTES TO BASIC FINANCIAL STATEMENTS  
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**NOTE 4 – ACCOUNTS PAYABLE & ACCRUED EXPENSES**

Accounts payable and accrued expenses at June 30, 2020 and 2019 consist of:

	Water System		Wastewater System		Total	
	June 30, 2020	June 30, 2019	June 30, 2020	June 30, 2019	June 30, 2020	June 30, 2019
Accounts payable	\$34,907	\$24,490	\$ 4,662	\$ 7,341	\$39,569	\$31,831
Accrued salaries	5,484	3,853	908	642	6,392	4,495
Other	20,402	21,214	885	1,251	21,287	22,465
Total	<u>\$60,793</u>	<u>\$49,557</u>	<u>\$ 6,455</u>	<u>\$ 9,234</u>	<u>\$67,248</u>	<u>\$58,791</u>

**NOTE 5 – COMPENSATED ABSENCES**

Compensated absences as of June 30, 2020 and 2019, are included on the balance sheet separately from 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,	June 30,	June 30,	June 30,	June 30,	June 30,
Beginning Balance	\$ 29,282	\$ 28,506	\$ 5,224	\$ 4,827	\$ 34,506	\$ 33,333
Additions	35,023	31,761	5,682	5,325	40,705	37,086
Payments	<u>(30,049)</u>	<u>(30,985)</u>	<u>(5,101)</u>	<u>(4,928)</u>	<u>(35,150)</u>	<u>(35,913)</u>
Ending Balance	<u>\$ 34,256</u>	<u>\$ 29,282</u>	<u>\$ 5,805</u>	<u>\$ 5,224</u>	<u>\$ 40,061</u>	<u>\$ 34,506</u>

**NOTE 6 – 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.

**EAST BAY MUNICIPAL UTILITY DISTRICT  
NOTES TO BASIC FINANCIAL STATEMENTS  
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**NOTE 6 – COMMERCIAL PAPER NOTES (Continued)**

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 failure to place new commercial paper notes to pay maturing notes, which is expected to provide 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.

Pursuant to Board Resolution No. 35166-20, the District paid down \$5 million in extendable commercial paper for the Wastewater System in April 2020. As of June 30, 2020, \$10.0 million in Wastewater Series extendable commercial paper notes were outstanding under this program. There are no outstanding balances in Water Series extendable commercial paper notes under this program. The Wastewater Series included the term of 79 days and an interest rate of 0.30% as of June 30, 2020, and the term of 70 days and an interest rate of 1.37% as of June 30, 2019.

The District established its current traditional commercial paper program in December 2015. Pursuant to Board Resolution No. 35166-20, the District paid down \$24 million in commercial paper for the Water System in March 2020. As of June 30, 2020, \$335.8 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 33 to 93 days and interest rates ranging from 0.12% to 0.40% as of June 30, 2020, and the terms of 28 to 94 days and interest rates ranging from 1.24% to 1.60% as of June 30, 2019.

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 \$200.0 million (reduced to \$176.0 million in March 2020 in connection with the pay down of commercial paper referenced above) and a revolving credit agreement in the amount of \$160.0 million. 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, 2020. The liquidity support facilities expire on May 6, 2024 and November 30, 2021, 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, 2020. 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.

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

**NOTE 7 – 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.

The District's debt issues and transactions during fiscal year 2019-2020 are summarized below.

	Original Issue Amount	Balance June 30, 2019	Additions	Retirements	Balance June 30, 2020	Amount due within one year
<b>Water System Revenue Bonds:</b>						
<b>Subordinated Series 2008 A</b>						
1.55% variable rate, due 6/1/38	\$ 322,525	\$ 105,250	\$ -	\$ -	\$ 105,250	\$ -
<b>Subordinated Series 2010 A</b>						
3.00 - 5.00%, due 6/1/36	192,830	2,090	-	2,090	-	-
<b>Subordinated Series 2010 B</b>						
5.87%, due 6/1/40	400,000	400,000	-	-	400,000	-
<b>Series 2012 A (Private Placement)</b>						
5.00% , due 6/1/37	191,750	81,750	-	-	81,750	-
<b>Series 2012 B</b>						
1.00 -5.00%, due 6/1/26	358,620	178,740	-	45,160	133,580	47,190
<b>Series 2013 A</b>						
5.00%, due 6/1/21	48,670	14,780	-	7,195	7,585	7,585
<b>Series 2014 A</b>						
3.00-5.00%, due 6/1/35	128,315	128,315	-	-	128,315	-
<b>Series 2014 B</b>						
2.00-5.00%, due 6/1/30	242,730	216,985	-	8,720	208,265	9,080
<b>Series 2014 C</b>						
5.00%, due 6/1/44	75,000	75,000	-	-	75,000	-
<b>Series 2015 A</b>						
4.00-5.00%, due 6/1/37	429,360	429,360	-	-	429,360	-
<b>Series 2015 B</b>						
4.00-5.00%, due 6/1/45	74,335	74,335	-	-	74,335	-
<b>Series 2015C</b>						
4.00-5.00%, due 6/1/45	110,715	110,715	-	-	110,715	-
<b>Series 2017 A</b>						
3.00 - 5.00%, due 6/1/45	185,355	185,355	-	-	185,355	-
<b>Series 2017 B</b>						
3.00 - 5.00%, due 6/1/37	309,665	297,130	-	-	297,130	970
<b>Series 2019 A</b>						
5.00%, due 6/1/49	161,820	161,820	-	2,270	159,550	2,560
Total water long-term bonds		2,461,625	-	65,435	2,396,190	67,385

**EAST BAY MUNICIPAL UTILITY DISTRICT  
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**NOTE 7 - LONG TERM DEBT (Continued)**

	Original Issue Amount	Balance June 30, 2019	Additions	Retirements	Balance June 30, 2020	Amount due within one year
<b><i>Wastewater System Revenue Bonds:</i></b>						
<b>Subordinated Series 2010 A</b>						
2.00 - 5.00%, due 6/1/29	\$ 58,095	\$ 2,680	\$ -	\$ 2,680	\$ -	\$ -
<b>Subordinated Series 2010 B</b>						
5.03 - 5.18%, due 6/1/40	150,000	150,000	-	-	150,000	-
<b>Series 2012 A (Private Placement)</b>						
5.00% , due 6/1/37	20,000	20,000	-	-	20,000	-
<b>Series 2014 A</b>						
2.00 - 5.00%, due 6/1/31	82,150	62,935	-	6,100	56,835	6,420
<b>Series 2015 A-1</b>						
5.00%, due 6/1/37	54,805	54,805	-	-	54,805	-
<b>Series 2015 A-2</b>						
5.00%, due 6/1/38	13,565	13,565	-	-	13,565	-
<b>Series 2015 B</b>						
2.10 - 3.35% , due 6/1/30	2,795	2,145	-	170	1,975	175
<b>Series 2017 A</b>						
4.00 - 5.00%, due 6/1/37	69,420	63,575	-	1,910	61,665	4,360
Total wastewater long-term bonds		369,705	-	10,860	358,845	10,955
<b>Total long-term bonds</b>		<b>2,831,330</b>	<b>-</b>	<b>76,295</b>	<b>2,755,035</b>	<b>78,340</b>
<b><i>Water Loans (Direct Borrowings):</i></b>						
<b><i>State Water Resources Control Board</i></b>						
<b>2004 Upper San Leandro Reservoir Project</b>						
2.51%, due 1/1/24	2,188	590	-	126	464	129
<b>2008 East Bayshore, Recycled Water Project</b>						
2.40%, due 4/1/28	20,100	10,093	-	1,018	9,075	1,042
<b>2018 South Reservoir Replacement Project</b>						
1.70%, due 7/1/28	2,260	2,202	11,738	224	13,716	386
<b>2018 MacArthur Davenport Pipeline Replacement Project</b>						
1.7%, due 7/1/49	12,045	-	12,045	232	11,813	318
Total water loans		12,885	23,783	1,600	35,068	1,875
<b>Total long-term loans</b>		<b>12,885</b>	<b>23,783</b>	<b>1,600</b>	<b>35,068</b>	<b>1,875</b>
<b><i>Commercial Paper (see Note 6)</i></b>						
Water System Commercial Paper		359,800	2,187,610	2,211,610	335,800	
Wastewater System Commercial Paper		15,000	100,000	105,000	10,000	
Total commercial paper		374,800	2,287,610	2,316,610	345,800	
Amount due within one year		(77,498)	(2,717)	-	(80,215)	
Add: Unamortized premium, net		301,140	-	32,752	268,388	
<b>Total long-term liabilities, net</b>		<b>\$ 3,442,657</b>	<b>\$ 2,308,676</b>	<b>\$ 2,427,257</b>	<b>\$ 3,324,076</b>	<b>\$ 80,215</b>

**EAST BAY MUNICIPAL UTILITY DISTRICT  
NOTES TO BASIC FINANCIAL STATEMENTS  
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**NOTE 7 - LONG TERM DEBT (Continued)**

The District's debt issues and transactions during fiscal year 2018-2019 are summarized below.

	Original Issue Amount	Balance June 30, 2018	Additions	Retirements	Balance June 30, 2019	Amount due within one year
<b><i>Water System Revenue Bonds:</i></b>						
<b>Subordinated Series 2008 A</b>						
1.55% variable rate, due 6/1/38	\$ 322,525	\$ 105,250	\$ -	\$ -	\$ 105,250	\$ -
<b>Subordinated Series 2010 A</b>						
3.00 - 5.00%, due 6/1/36	192,830	4,480	-	2,390	2,090	2,090
<b>Subordinated Series 2010 B</b>						
5.87%, due 6/1/40	400,000	400,000	-	-	400,000	-
<b>Series 2012 A (Private Placement)</b>						
5.00% , due 6/1/37	191,750	81,750	-	-	81,750	-
<b>Series 2012 B</b>						
1.00 -5.00%, due 6/1/26	358,620	214,850	-	36,110	178,740	45,160
<b>Series 2013 A</b>						
5.00%, due 6/1/21	48,670	21,600	-	6,820	14,780	7,195
<b>Series 2014 A</b>						
3.00-5.00%, due 6/1/35	128,315	128,315	-	-	128,315	-
<b>Series 2014 B</b>						
2.00-5.00%, due 6/1/30	242,730	225,410	-	8,425	216,985	8,720
<b>Series 2014 C</b>						
5.00%, due 6/1/44	75,000	75,000	-	-	75,000	-
<b>Series 2015 A</b>						
4.00-5.00%, due 6/1/37	429,360	429,360	-	-	429,360	-
<b>Series 2015 B</b>						
4.00-5.00%, due 6/1/45	74,335	74,335	-	-	74,335	-
<b>Series 2015C</b>						
4.00-5.00%, due 6/1/45	110,715	110,715	-	-	110,715	-
<b>Series 2017 A</b>						
3.00 - 5.00%, due 6/1/45	185,355	185,355	-	-	185,355	-
<b>Series 2017 B</b>						
3.00 - 5.00%, due 6/1/37	309,665	303,475	-	6,345	297,130	-
<b>Series 2019 A</b>						
5.00%, due 6/1/49	161,820	-	161,820	-	161,820	2,270
Total water long-term bonds		<u>2,359,895</u>	<u>161,820</u>	<u>60,090</u>	<u>2,461,625</u>	<u>65,435</u>

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**NOTE 7 - LONG TERM DEBT (Continued)**

	Original Issue Amount	Balance June 30, 2018	Additions	Retirements	Balance June 30, 2019	Amount due within one year
<b><i>Wastewater System Revenue Bonds:</i></b>						
<b>Subordinated Series 2010 A</b>						
2.00 - 5.00%, due 6/1/29	\$ 58,095	\$ 5,295	\$ -	\$ 2,615	\$ 2,680	\$ 2,680
<b>Subordinated Series 2010 B</b>						
5.03 - 5.18%, due 6/1/40	150,000	150,000	-	-	150,000	-
<b>Series 2012 A (Private Placement)</b>						
5.00% , due 6/1/37	20,000	20,000	-	-	20,000	-
<b>Series 2014 A</b>						
2.00 - 5.00%, due 6/1/31	82,150	67,570	-	4,635	62,935	6,100
<b>Series 2015 A-1</b>						
5.00%, due 6/1/37	54,805	54,805	-	-	54,805	-
<b>Series 2015 A-2</b>						
5.00%, due 6/1/38	13,565	13,565	-	-	13,565	-
<b>Series 2015 B</b>						
2.10 - 3.35% , due 6/1/30	2,795	2,310	-	165	2,145	170
<b>Series 2017 A</b>						
4.00 - 5.00%, due 6/1/37	69,420	66,530	-	2,955	63,575	1,910
Total wastewater long-term bonds		380,075	-	10,370	369,705	10,860
<b>Total long-term bonds</b>		2,739,970	161,820	70,460	2,831,330	76,295
<b><i>Water Loans (Direct Borrowings):</i></b>						
<b><i>State Water Resources Control Board</i></b>						
<b>2004 Upper San Leandro Reservoir Project</b>						
2.51%, due 1/1/24	2,188	713	-	123	590	126
<b>2008 East Bayshore, Recycled Water Project</b>						
2.40%, due 4/1/28	20,100	11,087	-	994	10,093	1,018
<b>2018 South Reservoir Replacement Project</b>						
1.70%, due 7/1/28	2,260	2,260	-	58	2,202	59
Total water loans		14,060	-	1,175	12,885	1,203
<b>Total long-term loans</b>		14,060	-	1,175	12,885	1,203
<b><i>Commercial Paper (see Note 6)</i></b>						
Water System Commercial Paper		359,800	2,287,565	2,287,565	359,800	
Wastewater System Commercial Paper		15,000	76,500	76,500	15,000	
Total commercial paper		374,800	2,364,065	2,364,065	374,800	
Amount due within one year		(71,635)	(5,863)		(77,498)	
Add: Unamortized premium, net		260,105	64,579	23,544	301,140	
<b>Total long-term liabilities, net</b>		\$ 3,317,300	\$ 2,584,601	\$ 2,459,244	\$ 3,442,657	\$ 77,498

**EAST BAY MUNICIPAL UTILITY DISTRICT  
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**NOTE 7 - LONG TERM DEBT (Continued)**

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

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 (SWRCB) 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.

Upon the occurrence and continuation of an event of default under the Water System Revenue Bond Indenture or Wastewater System Revenue Bond indenture, the principal amounts of (and accrued interest on) the respective system's revenue bonds can be accelerated and declared immediately due and payable by the registered bondholders of a majority in aggregate principal amount of the then outstanding bonds upon written notice delivered to the District. Failure to pay debt service when due and the occurrence of certain insolvency or bankruptcy-related events are events of default. Failure to observe or perform the covenants and agreements under the Indenture for a period of 60 days after written notice of such failure is given to the District is also an event of default unless the District has taken all action reasonably possible to remedy such failure within 60 days and the District diligently proceeds to remedy the failure. A default by the District under any agreement governing Parity Debt which continues after the applicable grace period, if any, is also an event of default.

**2018 South Reservoir Replacement Project Parity Loan** – The District entered into a loan agreement with the SWRCB to fund construction for the South Reservoir Replacement Project. The project replaced the existing South Reservoir with an 8.5 MG partially buried concrete reservoir to meet demand and increase system reliability. This project was completed in January 2020. The final loan amount based on project expenditure reimbursements is \$14 million. The loan repayments are payable solely from net revenues of the Water System. Interest payments on the outstanding loan balance commenced on July 1, 2018 and principal payments commenced on January 1, 2019. Principal and interest are payable semi-annually thereafter.

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**NOTE 7 - LONG TERM DEBT (Continued)**

**2018 MacArthur Davenport Pipeline Replacement Project Parity Loan** – The District entered into a loan agreement with the SWRCB to fund construction for the MacArthur Davenport Pipeline Replacement Project. The project re-aligned part of the transmission main and installed approximately 7,000 feet of 8-inch and 10,900 feet of 24-inch steel water pipes away from the Hayward fault reducing the likelihood of failure during a seismic event. This project was completed in June 2019. As of June 30, 2020, the District has received \$12 million in loan proceeds from the SWRCB. The District may receive additional loan proceeds for reimbursement of past expenses in the fiscal year ending June 30, 2021. The loan repayments are payable solely from net revenues of the Water System. Principal and interest payments on the outstanding loan balance commenced on July 1, 2020. Principal and interest are payable semi-annually thereafter.

**C. Debt Service Requirements**

Annual debt service requirements for fiscal year 2019-2020, 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
2021	\$ 69,260	\$ 118,772	\$ 10,955	\$ 17,875	\$ 80,215	\$ 136,647
2022	72,196	115,563	11,480	17,329	83,676	132,892
2023	75,666	112,128	12,010	16,757	87,676	128,885
2024	78,935	108,477	12,575	16,158	91,510	124,635
2025	82,735	104,699	13,155	15,531	95,890	120,230
2026 - 2030	466,012	459,800	64,105	67,780	530,117	527,580
2031 - 2035	590,647	333,383	101,840	49,227	692,487	382,610
2036 - 2040	657,418	175,240	100,030	23,486	757,448	198,726
2041 - 2045	297,228	49,070	32,695	1,919	329,923	50,989
2046 - 2049	41,161	4,760	-	-	41,161	4,760
Totals	\$ 2,431,258	\$ 1,581,892	\$ 358,845	\$ 226,062	\$ 2,790,103	\$ 1,807,954

Annual debt service requirements for fiscal year 2018-2019, 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
2020	\$ 66,638	\$ 121,636	\$ 10,860	\$ 18,364	\$ 77,498	\$ 140,000
2021	68,617	118,438	10,955	17,875	79,572	136,313
2022	71,540	115,239	11,480	17,329	83,020	132,568
2023	75,001	111,815	12,010	16,757	87,011	128,572
2024	78,257	108,176	12,575	16,158	90,832	124,334
2025 - 2029	442,806	480,430	71,730	70,806	514,536	551,236
2030 - 2034	560,078	359,295	90,780	51,187	650,858	410,482
2035 - 2039	708,520	210,751	116,620	26,144	825,140	236,895
2040 - 2044	317,901	63,868	31,595	2,082	349,496	65,950
2045 - 2049	85,152	8,488	1,100	40	86,252	8,528
Totals	\$ 2,474,510	\$ 1,698,136	\$ 369,705	\$ 236,742	\$ 2,844,215	\$ 1,934,878



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**NOTE 7 - LONG TERM DEBT (Continued)**

Interest payments on debt subject to swap agreements were calculated using the variable rates at June 30, 2020 and 2019, respectively.

***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. As of June 30, 2020 and 2019, \$110 million and \$318 million of the bonds outstanding are considered defeased, respectively.

***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's obligation to repay the banks for any draws on the respective SBPAs (to the extent such repayment is not thereafter provided from remarketing proceeds of the related bonds) is payable from net revenues of the Water System and secured on parity with the District's Water Revenue 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	12/9/2022	Reset Weekly	See below
Series 2008A-2	11/24/2021	Reset Weekly	See below
Series 2008A-3	11/24/2021	Reset Weekly	See below
Series 2008A-4	12/9/2022	Reset Weekly	See below

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**NOTE 7 - LONG TERM DEBT (Continued)**

***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 provides a hedge against increases in short-term interest rates. The terms, fair values, 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, 2020, 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.

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.	Aa2/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.	Aa2/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	A2/A-	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 the amount owed to and received from 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, 2020 and 2019, are included below:

Related Bond Issuance	Fair Value	
	2020	2019
2008A Water System Refunding Bonds	(\$40,513)	(\$26,819)

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**NOTE 7 - LONG TERM DEBT (Continued)**

*Credit risk.* As of June 30, 2020, the District was not exposed to credit risk on its outstanding swaps because the swaps had a negative fair value of \$40.5 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, 2020, the District was not required to provide collateral to any swap counterparty.

*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. For the year ended June 30, 2020, the District has a cumulative average basis difference on its swaps of a positive 7 basis points (the District received more from its swap floating rate payment than it paid 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, 2020, 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	
2021	\$ -	\$ 101	\$ 3,174	\$ 3,275
2022	-	101	3,173	3,274
2023	-	102	3,174	3,276
2024	-	101	3,174	3,275
2025	-	101	3,174	3,275
2026 - 2030	-	506	15,868	16,374
2031 - 2035	62,450	330	10,343	73,123
2036 - 2040	42,800	42	1,319	44,161
Totals	\$ 105,250	\$ 1,384	\$ 43,399	\$ 150,033

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**NOTE 8 – 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 9 – 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 prior to January 1, 2013 are in the 1980 Plan (1980 Plan Members), employees who became

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**NOTE 9 – EMPLOYEES’ RETIREMENT PLAN (Continued)**

Members on or after January 1, 2013, or who have reciprocal membership after January 1, 2013 are in the 2013 Plan (2013 Plan Members).

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, 2019, there were 1,646 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 \$8,963 in the year ended June 30, 2020. Effective June 18, 2002, a portion of the post-employment healthcare benefits costs is recovered through employee contributions.

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

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**NOTE 9 – EMPLOYEES’ RETIREMENT PLAN (Continued)**

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 adopted contribution rates for the year ended June 30, 2020 are as follows:

1980 Plan:

Pension plan:

Employer service cost	15.97%
Toward unfunded pension liability	21.89%

Other post-employment benefits:

Employer normal cost	1.05%
Unfunded actuarial accrued liability	4.27%

2013 Plan:

Pension plan:

Employer service cost	9.04%
Toward unfunded pension liability	22.20%

Other post-employment benefits:

Employer normal cost	0.75%
Unfunded actuarial accrued liability	4.17%

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**NOTE 9 – EMPLOYEES’ RETIREMENT PLAN (Continued)**

District adopted contribution rates for fiscal year 2020-2021 are as follows:

1980 Plan:

Pension plan:

Employer service cost	15.92%
Toward unfunded pension liability	21.94%

Other post-employment benefits:

Employer normal cost	1.00%
Unfunded actuarial accrued liability	4.32%

2013 Plan:

Pension plan:

Employer service cost	9.15%
Toward unfunded pension liability	22.09%

Other post-employment benefits:

Employer normal cost	0.74%
Unfunded actuarial accrued liability	4.18%

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.

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**NOTE 9 – EMPLOYEES’ RETIREMENT PLAN (Continued)**

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

Valuation date	June 30, 2019
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; experience gains/losses are amortized over separate decreasing 20 year periods.
Assets valuation method	Market value of assets less unrecognized returns in each 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	7.00%, net of investment and administrative expenses.
Average projected salary increases*	Ranges from 3.75% to 9.25% based on years of service*
Inflation rate	2.75%
Cost-of-living adjustments	3.00% per annum
Mortality	Pre-retirement: 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. After Service Retirement and All Beneficiaries: 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.  After Disability Retirement: 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 2.75% plus across the board salary increase of 0.50% plus merit and promotional increases.



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**NOTE 9 – EMPLOYEES’ RETIREMENT PLAN (Continued)**

***E. Contributions Required and Contributions Made***

Contributions for the years ended June 30, 2020 and June 30, 2019, based on the June 30, 2019, actuarial valuation (latest available and includes amounts for post-employment healthcare benefits), were as follows:

	2020		2019	
	Healthcare Benefit			
	Pension	Plan	Totals	
Regular contributions:				
District contributions	\$ 77,645	\$ 11,089	\$ 88,734	\$ 84,551
Member contributions	18,661	195	18,856	17,825
	96,306	11,284	107,590	102,376
Other contributions:				
Member buybacks	29	-	29	40
	\$ 96,335	\$ 11,284	\$ 107,619	\$ 102,416

Regular District and member contributions in fiscal year 2020 represent an aggregate of 40.98% and 8.72% of covered payroll, respectively. The District’s contributions include amounts for post-employment healthcare benefits at a rate of 5.12% of covered payroll, determined by the actuarial dated June 30, 2019. The actual payroll for the District employees covered by the Plan for the year ended June 30, 2020, was \$216,549 which was 91.06% of the total District payroll of \$237,803.

The total District contribution \$88,734 in regular contributions (\$31,740 for normal cost and service cost) also includes \$56,994 for amortization of the unfunded actuarial accrued liability.

Regular District and member contributions in fiscal year 2019 represented an aggregate of 41.38% and 8.74% of covered payroll, respectively. The District’s contributions include amounts for post-employment healthcare benefits at a rate of 5.10% of covered payroll, determined by the actuarial valuation dated June 30, 2018. The actual payroll for the District employees covered by the Plan for the year ended June 30, 2019, was \$204,331 which was 90.61% of the total District payroll of \$225,512.

The total District contribution of \$84,551 as of June 30, 2019, in regular contributions (\$30,506 for normal cost and service cost; also includes \$54,045 for amortization of the unfunded actuarial accrued liability).

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.

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**NOTE 9 – EMPLOYEES’ RETIREMENT PLAN (Continued)**

***F. 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, 2020 and 2019 is as shown below:

	2020	2019
Total Pension Liability	\$ 2,340,773	\$ 2,220,978
Plan Fiduciary Net Position	(1,792,124)	(1,716,478)
Employer Net Pension Liability	\$ 548,649	\$ 504,500
Plan Fiduciary Net Position as a		
Percentage of Total Pension Liability	76.56%	77.28%
Covered Payroll	\$ 203,541	\$ 193,717
Liability as a Percentage of Covered Payroll	269.55%	260.43%

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 liability were measured as of June 30, 2019 and 2018 and are not adjusted or rolled forward to the June 30, 2020 and 2018 reporting dates, respectively.

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**NOTE 9 – EMPLOYEES’ RETIREMENT PLAN (Continued)**

For the year ended June 30, 2020, the District recognized pension expense as follows:

	<b>Water</b>	<b>Wastewater</b>	<b>Total</b>
Contributions made after measurement date	\$ (66,621)	\$ (11,024)	\$ (77,645)
Current year changes in the net pension liability:			
Service cost	38,272	6,439	44,711
Interest on total pension liability	132,588	22,308	154,896
Member contributions	(15,135)	(2,546)	(17,681)
Projected earnings on investments	(102,384)	(17,226)	(119,610)
Difference in expected and actual earnings	4,865	818	5,683
Other	21,643	2,526	24,169
Total current year activity	79,849	12,319	92,168
<b>Total pension expense</b>	<b>\$ 13,228</b>	<b>\$ 1,295</b>	<b>\$ 14,523</b>

At June 30, 2020, the District reported deferred outflows of resources and deferred inflows of resources related to pensions from the following sources:

	<b>Deferred Outflows of Resources</b>		<b>Deferred Inflows of Resources</b>	
	<b>Water</b>	<b>Wastewater</b>	<b>Water</b>	<b>Wastewater</b>
Pension contributions subsequent to measurement date	\$ 66,621	\$ 11,024	\$ -	\$ -
Differences between expected and actual experiences	44,953	7,564	8,350	1,405
Changes of assumption	17,423	2,931	-	-
Change in proportion and difference between employer contributions and proportionate share of contributions	1,563	12	12	1,563
Net difference between projected and actual earnings on pension plan investments	-	-	15,631	2,630
<b>Total</b>	<b>\$ 130,560</b>	<b>\$ 21,531</b>	<b>\$ 23,993</b>	<b>\$ 5,598</b>

A total of \$77,645 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, 2021. 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 June 30	<b>Water</b>	<b>Wastewater</b>
2021	\$ 18,266	\$ 2,343
2022	(4,230)	(1,196)
2023	12,551	1,828
2024	12,038	1,785
2025	1,321	149

**EAST BAY MUNICIPAL UTILITY DISTRICT  
NOTES TO BASIC FINANCIAL STATEMENTS  
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**NOTE 9 – 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	22.5%	5.32%
Domestic Small Cap Equity	2.5%	6.07%
Developed International Large Cap Equity	20.0%	6.67%
Emerging Market Equity	5.0%	8.87%
Core Bond	20.0%	1.04%
High-Yield Bond	2.5%	3.31%
Bank Loan	2.5%	3.14%
Real Estate	5.0%	4.68%
Covered Calls	20.0%	4.00%
Total	100.0%	

The discount rates used to measure the total pension liability was 7.00% as of June 30, 2019 and 7.00% as of June 30, 2018. 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, 2019 and June 30, 2018.

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**NOTE 9 – EMPLOYEES’ RETIREMENT PLAN (Continued)**

Changes in the net pension liability for fiscal year ended June 30, 2020 were as follows:

	Increase (Decrease)		
	Total Pension Liability (a)	Plan Fiduciary Net Position (b)	Net Pension Liability (c) = (a) - (b)
Beginning Balance	\$ 2,220,977	\$ 1,716,477	\$ 504,500
Changes Recognized during the Measurement Period:			
Service cost	44,711	-	44,711
Interest on total pension liability	154,896	-	154,896
Changes in benefit terms	-	-	-
Difference between expected and actual experience	25,974	-	25,974
Changes of assumptions	-	-	-
Contributions from the employer	-	74,033	(74,033)
Contributions from the employee	-	17,681	(17,681)
Net investment income	-	91,194	(91,194)
Benefit payments, including refunds of employee contributions	(105,785)	(105,785)	-
Administrative expenses	-	(1,476)	1,476
Net Changes during the Measurement Period	119,796	75,647	44,149
Ending Balance	\$ 2,340,773	\$ 1,792,124	\$ 548,649

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, 2020, calculated using the discount rate of 7.00%, 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 (6.00%) or 1-percentage-point higher (8.00%) than the current rate:

	1% Decrease (6.00%)	Current Discount (7.00%)	1% Increase (8.00%)
Net Pension Liability	\$ 846,917	\$ 548,649	\$ 300,151

**H. Net OPEB Liability**

The net OPEB liability (The Plan’s liability determined according to GASB 75) as of June 30, is shown below:

	2020	2019
Total OPEB Liability	\$ 173,712	\$ 167,770
Plan Fiduciary Net Position	(40,841)	(36,762)
Employer Net OPEB Liability	\$ 132,871	\$ 131,008
Plan Fiduciary Net Position as a Percentage of Total OPEB Liability	23.51%	21.91%

**EAST BAY MUNICIPAL UTILITY DISTRICT  
NOTES TO BASIC FINANCIAL STATEMENTS  
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**NOTE 9 – EMPLOYEES’ RETIREMENT PLAN (Continued)**

The actuarial assumptions used in the June 30, 2019 valuation were based on the July 1, 2012 through June 30, 2016 Actuarial Experience Study report dated November 10, 2016, the Review of Economic Actuarial Assumptions report dated September 12, 2018, and the Retiree Health assumptions letter dated December 17, 2019. They are the same as the assumptions used in the June 30, 2019 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. The net OPEB liability is measured as of June 30, 2019 and 2018 and is not adjusted or rolled forward to the June 30, 2020 and 2019 reporting dates.

A summary of the actuarial assumptions as of the latest actuarial valuation is shown below:

Valuation date	June 30, 2019
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 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	5.23%, net of investment and administrative expenses.
Average projected salary increases*	Ranges from 3.75% to 9.25% based on years of service*
Inflation rate	2.75%
Health Care Trend	Non-Medicare: 6.625% graded to ultimate 4.50% over 9 years Medicare: 6.125% graded to ultimate 4.50% over 7 years
HIB increases	0.00%
Mortality	Pre-retirement: 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 two years for females. After Service Retirement and All Beneficiaries: 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. After Disability Retirement: 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

\*Includes inflation of 2.75% plus across the board salary increase of 0.50% plus merit and promotional increases.

**EAST BAY MUNICIPAL UTILITY DISTRICT  
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**NOTE 9 – 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	22.5%	5.32%
Domestic Small Cap Equity	2.5%	6.07%
Developed International Large Cap Equity	20.0%	6.67%
Emerging Market Equity	5.0%	8.87%
Core Bond	20.0%	1.04%
High-Yield Bond	2.5%	3.31%
Bank Loan	2.5%	3.14%
Real Estate	5.0%	4.68%
Covered Calls	20.0%	4.00%
Total	100.0%	

The municipal bond rates used to determine the blended discount rate, as discussed below, were 3.50% and 3.87% which are based on the 20-year municipal bond rate for the Bond Buyer 20-Bond GO Index as of June 30, 2020 and June 30, 2019, respectively.

The discount rates used to measure the total OPEB liability were 5.23% and 5.59% as of June 30, 2020 and June 30, 2019, 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

**EAST BAY MUNICIPAL UTILITY DISTRICT  
NOTES TO BASIC FINANCIAL STATEMENTS  
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**NOTE 9 – EMPLOYEES’ RETIREMENT PLAN (Continued)**

Change in Net OPEB liability for fiscal year ended June 30, 2020 were as follows:

	Increase (Decrease)		
	Total OPEB Liability	Plan Fiduciary Net Position	Net OPEB Liability
	(a)	(b)	(c) = (a) - (b)
Beginning Balance	\$ 167,770	\$ 36,762	\$ 131,008
Changes Recognized during the Measurement Period:			
Service cost	4,693	-	4,693
Interest on total OPEB liability	9,331	-	9,331
Changes in benefit terms	-	-	-
Difference between expected and actual experience	(2,783)	-	(2,783)
Changes of assumptions	5,753	-	5,753
Contributions from the employer	-	10,518	(10,518)
Contributions from the employee	-	184	(184)
Net investment income	-	2,060	(2,060)
Administrative expenses	-	(33)	33
Benefit payments, including implicit subsidies*	(11,052)	(11,052)	-
Other**	-	2,402	(2,402)
	5,942	4,079	1,863
Net Changes during the Measurement Period			
Ending Balance	\$ 173,712	\$ 40,841	\$ 132,871

\* Sum of cash benefit payments (\$8,650) and estimated implicit subsidy benefit payments (\$2,402)

\*\* The total employer contributions for estimated implicit subsidy

In accordance with GASB 75 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, 2020, calculated using the discount rate of 5.23%, 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 (4.23%) or

1-percentage point higher (6.23%) than the current rate:

	1% Decrease (4.23%)	Current Discount (5.23%)	1% Increase (6.23%)
Net OPEB Liability	\$ 150,673	\$ 132,871	\$ 117,641

Additionally, in accordance with GASB 75 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, 2020, calculated using the current trend rates 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 or 1- percentage-point higher than the current rate:

	1% Decrease	Current Trend	1% Increase
Net OPEB Liability	\$ 130,405	\$ 132,871	\$ 135,666



**EAST BAY MUNICIPAL UTILITY DISTRICT  
NOTES TO BASIC FINANCIAL STATEMENTS  
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**NOTE 9 – EMPLOYEES’ RETIREMENT PLAN (Continued)**

For the year ended June 30, 2020, the District recognized OPEB expense as follows:

	<u>Water</u>	<u>Wastewater</u>	<u>Total</u>
Contributions made after measurement date	\$ (9,510)	\$ (1,579)	\$ (11,089)
Current year changes in the net OPEB liability:			
Service cost	4,017	676	4,693
Interest on total OPEB liability	7,988	1,344	9,332
Member contributions	(157)	(27)	(184)
Projected earnings on investments	(1,807)	(304)	(2,111)
Difference in expected and actual earnings	9	1	10
Other	(3,869)	(765)	(4,634)
Total current year activity	<u>6,181</u>	<u>925</u>	<u>7,106</u>
<b>Total OPEB Expense</b>	<u>\$ (3,329)</u>	<u>\$ (654)</u>	<u>\$ (3,983)</u>

Components of deferred outflows and resources and deferred inflows of resources related to OPEB at June 30, 2020 were as follows:

	<u>Deferred Outflows of Resources</u>		<u>Deferred Inflows of Resources</u>	
	<u>Water</u>	<u>Wastewater</u>	<u>Water</u>	<u>Wastewater</u>
OPEB contributions subsequent to measurement date	\$ 9,510	\$ 1,579	\$ -	\$ -
Differences between expected and actual experiences	-	-	4,420	744
Changes of assumption	4,040	680	2,658	447
Change in proportion and difference between employer contributions and proportionate share of contributions	366	-	-	366
Net difference between projected and actual earnings on OPEB plan investments	-	-	1,320	222
<b>Total</b>	<u>\$ 13,916</u>	<u>\$ 2,259</u>	<u>\$ 8,398</u>	<u>\$ 1,779</u>

\$11,089 reported as deferred outflows of resources related to contributions subsequent to the measurement date will be recognized as a reduction of the OPEB liability in the year ended June 30, 2021. Amounts reported as deferred outflows and resources and deferred inflows of resources related to OPEB will be recognized as future OPEB expense as follows:

Year Ended June 30	<u>Water</u>	<u>Wastewater</u>
2021	\$ (1,831)	\$ (424)
2022	(1,831)	(424)
2023	(836)	(232)
2024	214	(31)
2025	292	12

**EAST BAY MUNICIPAL UTILITY DISTRICT  
 NOTES TO BASIC FINANCIAL STATEMENTS  
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**NOTE 9 – EMPLOYEES’ RETIREMENT PLAN (Continued)**

***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 a new member under PEPRA. In the System, Members covered under PEPRA are 2013 Plan Members.

The table below provides the details of the 2013 Plan provisions in accordance with PEPRA.

Benefit Formula	2.5% at Age 67
Final Compensation Period	Average of last 3 years
Employer Normal Cost Contribution Rate as a percentage payroll	9.04% of Reportable Compensation
Member Normal Cost Contribution Rate as a percentage of payroll	8.75% of Reportable Compensation

The employer contribution rate listed above was in effect as of June 30, 2020. 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 17.79% of payroll for new members. Under AB 340, the member contributions rate is adjusted when the normal cost deviates by 1% or more.

**EAST BAY MUNICIPAL UTILITY DISTRICT  
NOTES TO BASIC FINANCIAL STATEMENTS  
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**NOTE 10 – RISK MANAGEMENT**

The District has purchased commercial insurance for general, property, public officials’ liability and workers’ compensation. During the fiscal year ended June 30, 2020, the District paid \$1,828 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, 2020, the amount of these liabilities was \$47,331. 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>2020</u>	<u>2019</u>
Liability at beginning of year	\$49,391	\$51,001
Current year claims and changes in estimates	9,252	8,161
Payments of claims	<u>(11,312)</u>	<u>(9,771)</u>
Liability at end of year	<u>\$47,331</u>	<u>\$49,391</u>
Estimated liability:		
Due within one year	\$10,838	\$10,193
Due in more than one year	<u>36,493</u>	<u>39,198</u>
	<u>\$47,331</u>	<u>\$49,391</u>

**EAST BAY MUNICIPAL UTILITY DISTRICT  
NOTES TO BASIC FINANCIAL STATEMENTS  
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**NOTE 11 – KNOWN ENVIRONMENTAL LIABILITIES**

GASB Statement No. 49, Accounting and Financial Reporting for Pollution Remediation Obligations, provides guidance on accounting and financial reporting for pollution remediation obligations to address the current or potential detrimental effects of existing pollution by participating in pollution remediation activities. Pollution remediation activities include: pre-cleanup activities, cleanup activities, external government oversight and enforcement, and operation and maintenance of the remedy. The following is a summary of the District's known environmental liabilities as of July 29, 2020, that may meet 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 \$5million/year.
- In summer 2016, the Central Valley Regional Water Quality Control Board (CVRWQCB) requested that the District produce a technical report to reexamine the groundwater network at the Camanche North Shore (CANS) and Camanche South Shore (CASS) Wastewater Treatment Plants including the effectiveness of existing monitoring wells and hydraulic connections between the wastewater ponds and the aquifers. The technical report was provided in March 2017. The CVRWQCB stated in its winter 2018 response that it agreed with the CANS recommendations in the technical report and subsequently required the District to submit a work plan for new well installations as well as conduct additional monitoring. In May 2018, the District submitted its response to the CVRWQCB, including the work plan for the new CANS wells. The CVRWQCB has not yet responded to the District's May 2018 submittal of an updated work plan for installation of additional groundwater wells at CANS. In August 2018, the District submitted a required technical memorandum for CASS. In September 2018, the District submitted an assessment report for the cap on the closed CASS landfill also required by the CVRWQCB. The CVRWQCB has not responded to either submittal. The CVRWQCB requested additional analysis for the CASS facility which is ongoing. It is possible that 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 \$6.6 million to upgrade the existing facilities or, alternatively, approximately \$7.8 million to construct a joint wastewater project with Amador County.

**EAST BAY MUNICIPAL UTILITY DISTRICT  
NOTES TO BASIC FINANCIAL STATEMENTS  
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**NOTE 11 – KNOWN ENVIRONMENTAL LIABILITIES (Continued)**

- The Alameda County Environmental Health Agency (County) requested that the District conduct site investigations at the Adeline Maintenance Center (AMC) Shops to define the extent of petroleum hydrocarbons in soil and groundwater associated with former underground storage tanks (USTs). The District completed site investigations in accordance with an approved work plan in 2009. The results indicated that elevated concentrations of petroleum hydrocarbons remain in soil and groundwater in localized areas near the former USTs. In June 2016, the County then 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 but regulated as a separate site by the County). They requested that all environmental data collected during previous investigations be posted to the State’s GeoTracker website, after which a meeting would be scheduled 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 District has submitted the requested Sensitive Receptor Survey, Site Conceptual Model, as well as a Site Investigation Work Plan for the Anderson Building and the AMC Shops parcel. The County met with the District in July 2018 to discuss next steps towards site closure. The County concurred with the submittals with some conditions, and additional sampling was performed per their request during the fall of 2018. Based on the most recent sampling results, the County requested that the District perform a final drinking water well survey for the Anderson Building site. The District is awaiting further direction from the County in order to determine regulatory closure status of both of the sites.
  
- 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, excluding the items detailed above, is less than \$350.

**NOTE 12 - CONTINGENT LIABILITIES**

In the normal course of operations, the District is a party to various claims, legal actions and complaints, 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.

**EAST BAY MUNICIPAL UTILITY DISTRICT  
NOTES TO BASIC FINANCIAL STATEMENTS  
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**NOTE 13 – 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.

*COVID-19 Pandemic*

The District is assessing the effects of the ongoing pandemic (known as the COVID 19 pandemic) caused by a novel strain of coronavirus and the disease it causes on the District and its business and operations.

Current and potential economic and fiscal impacts to the District related to the COVID 19 pandemic include, but are not limited to, a slowdown in development activity in the District's service areas and decline in the collection of capacity fees; reduced operating revenues due to lower-water sales and associated reductions in wastewater service revenue and/or increases in delinquencies or non-payment of utility bills; increased operating costs to support modified working arrangements and other COVID 19 related activities; reductions in property tax receipts of the District as a result of declines in assessed valuations in the District's service area or increases in property tax delinquencies or non-payment; and/or reductions in investment income or increases in required pension and other post-employment benefit plan contributions as a result of ongoing volatility in the financial markets or a sustained decline in the value of plan assets.

The degree of impact to the District's finances and operations is difficult to predict due to the evolving nature of the COVID 19 pandemic. The ultimate duration and severity of the pandemic, the ramifications of future actions that may be taken or required by governmental authorities to contain and respond to the pandemic, and the severity of an associated economic recession and extent to which a recovery may be prolonged, are not yet known. In light of the uncertainties surrounding the COVID 19 pandemic and its impacts, management is unable to reasonably quantify the effect on future finances of the District at this time.

**REQUIRED SUPPLEMENTAL INFORMATION**

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**EAST BAY MUNICIPAL UTILITY DISTRICT  
REQUIRED SUPPLEMENTARY INFORMATION  
FOR THE YEAR ENDED JUNE 30, 2020  
(Dollars in thousands)**

**(1) Pension Plan**

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

	<u>2020</u>	<u>2019</u>	<u>2018</u>	<u>2017</u>	<u>2016</u>	<u>2015</u>
<b>Total Pension Liability</b>						
Service cost	\$ 44,710	\$ 40,636	\$ 41,106	\$ 37,828	\$ 36,791	\$ 34,987
Interest	154,896	149,324	144,392	138,135	131,595	127,558
Change of benefit terms	-	-	-	-	-	-
Differences between expected and actual experience	25,974	48,581	(22,641)	5,278	(1,390)	438
Changes of assumptions	-	12,484	-	52,596	-	18,421
Benefit payments, including refunds of employee contributions	<u>(105,785)</u>	<u>(98,062)</u>	<u>(90,705)</u>	<u>(83,886)</u>	<u>(77,790)</u>	<u>(71,232)</u>
<b>Net change in total pension liability</b>	119,795	152,963	72,152	149,951	89,206	110,172
<b>Total pension liability - beginning</b>	<u>2,220,978</u>	<u>2,068,015</u>	<u>1,995,863</u>	<u>1,845,912</u>	<u>1,756,706</u>	<u>1,646,534</u>
<b>Total pension liability - ending (a)</b>	<u>\$ 2,340,773</u>	<u>\$ 2,220,978</u>	<u>\$ 2,068,015</u>	<u>\$ 1,995,863</u>	<u>\$ 1,845,912</u>	<u>\$ 1,756,706</u>
<b>Plan fiduciary net position</b>						
Contributions - employer	\$ 74,033	\$ 71,221	\$ 67,096	\$ 65,218	\$ 64,177	\$ 61,660
Contributions - employee	17,681	16,860	15,820	14,741	13,260	11,963
Net investment income	91,194	147,424	197,977	13,934	59,288	216,601
Benefit payments, including refunds of employee contributions	(105,785)	(98,062)	(90,705)	(83,886)	(77,790)	(71,232)
Administrative expense	<u>(1,477)</u>	<u>(1,521)</u>	<u>(1,403)</u>	<u>(1,289)</u>	<u>(1,269)</u>	<u>(1,233)</u>
<b>Net change in plan fiduciary net position</b>	75,646	135,922	188,785	8,718	57,666	217,759
<b>Plan fiduciary net position - beginning</b>	<u>1,716,478</u>	<u>1,580,556</u>	<u>1,391,771</u>	<u>1,383,053</u>	<u>1,325,387</u>	<u>1,107,628</u>
<b>Plan fiduciary net position - ending (b)</b>	<u>\$ 1,792,124</u>	<u>\$ 1,716,478</u>	<u>\$ 1,580,556</u>	<u>\$ 1,391,771</u>	<u>\$ 1,383,053</u>	<u>\$ 1,325,387</u>
<b>Plan's net pension liability - ending (a) - (b)</b>	<u>\$ 548,649</u>	<u>\$ 504,500</u>	<u>\$ 487,459</u>	<u>\$ 604,092</u>	<u>\$ 462,859</u>	<u>\$ 431,319</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, 2020  
(Dollars in thousands)**

**(2) Pension Plan**

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

	2020	2019	2018	2017	2016	2015	2014
Total Pension Liability	\$ 2,340,773	\$ 2,220,978	\$ 2,068,015	\$ 1,995,863	\$ 1,845,912	\$ 1,756,706	\$ 1,646,534
Plan fiduciary net position	(1,792,124)	(1,716,478)	(1,580,556)	(1,391,771)	(1,383,053)	(1,325,387)	(1,107,628)
Net pension liability	<u>\$ 548,649</u>	<u>\$ 504,500</u>	<u>\$ 487,459</u>	<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	76.56%	77.28%	76.43%	69.73%	74.93%	75.45%	67.27%
Covered payroll*	\$ 203,541	\$ 193,717	\$ 182,032	\$ 174,586	\$ 166,886	\$ 159,513	\$ 153,707
Plan net pension liability as a percentage of covered payroll	269.55%	260.43%	267.79%	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	relation to the actuarially determined contributions	Contributions deficiency (excess)	Covered payroll*	Contributions as a percentage of covered payroll
2010	\$ 44,031	\$ 44,031	\$ -	\$ 161,641	27.24%
2011	50,987	50,987	-	160,336	31.80%
2012	52,156	52,156	-	158,481	32.91%
2013	53,795	53,795	-	153,707	35.00%
2014	61,660	61,660	-	159,513	38.66%
2015	64,177	64,177	-	166,886	38.46%
2016	65,218	65,218	-	174,586	37.36%
2017	67,096	67,096	-	182,032	36.86%
2018	71,221	71,221	-	193,717	36.77%
2019	74,033	74,033	-	203,541	36.37%
2020	77,645	77,645	-	216,549	35.86%

\*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 there be different from the actual payroll 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  
REQUIRED SUPPLEMENTARY INFORMATION  
FOR THE YEAR ENDED JUNE 30, 2020  
(Dollars in thousands)**

**(4) Pension Plan**

Schedule of Investment Returns:

	2020	2019	2018	2017	2016	2015	2014
Annual money weighted rate of return, net of investment expense	2.27%	5.37%	9.29%	14.46%	0.91%	4.40%	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):

	2020	2019	2018	2017	2016
<b>Total OPEB Liability</b>					
Service cost	\$ 4,692	\$ 4,827	\$ 5,276	\$ 4,514	\$ 4,460
Interest	9,332	9,265	8,797	9,374	9,159
Change of benefit terms	-	-	-	-	-
Differences between expected and actual experience	(2,783)	(3,299)	(1,711)	(3,286)	(309)
Changes of assumptions	5,753	(527)	(6,107)	12,471	-
Benefit payments - cash*	-	-	-	(7,685)	(7,394)
Benefit payments - estimated implicit subsidy	(11,052)	(10,390)	(9,804)	(2,164)	(2,241)
<b>Net change in total OPEB liability</b>	5,942	(124)	(3,549)	13,224	3,675
<b>Total OPEB liability - beginning</b>	167,770	167,894	171,443	158,219	154,544
<b>Total OPEB liability - ending (a)</b>	<u>\$ 173,712</u>	<u>\$ 167,770</u>	<u>\$ 167,894</u>	<u>\$ 171,443</u>	<u>\$ 158,219</u>
<b>Plan fiduciary net position</b>					
Employer contributions - cash	\$ 10,518	\$ 9,875	\$ 9,764	\$ 9,454	\$ 8,964
Employer contributions - estimated implicit subsidy	-	-	-	2,164	2,241
Employer contributions - total	10,518	9,875	9,764	11,618	11,205
Employee contributions	184	219	198	184	167
Net investment income	2,060	2,925	3,706	271	938
Benefit payments - cash*	-	-	-	(7,685)	(7,394)
Benefit payments - estimated implicit subsidy	(11,052)	(10,390)	(9,804)	(2,164)	(2,241)
Administrative expense	(33)	(30)	(26)	(22)	(20)
Other	2,402	2,075	1,892	-	-
<b>Net change in plan fiduciary net position</b>	4,079	4,674	5,730	2,202	2,655
<b>Plan fiduciary net position - beginning</b>	36,762	32,088	26,358	24,156	21,501
<b>Plan fiduciary net position - ending (b)</b>	<u>\$ 40,841</u>	<u>\$ 36,762</u>	<u>\$ 32,088</u>	<u>\$ 26,358</u>	<u>\$ 24,156</u>
<b>Plan's net OPEB liability - ending (a) - (b)</b>	<u>\$ 132,871</u>	<u>\$ 131,008</u>	<u>\$ 135,806</u>	<u>\$ 145,085</u>	<u>\$ 134,063</u>

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

\* Benefit Payments and Employer contributions - cash and estimated implicit subsidy report together starting fiscal year 2018.

Unaudited

**EAST BAY MUNICIPAL UTILITY DISTRICT  
REQUIRED SUPPLEMENTARY INFORMATION  
FOR THE YEAR ENDED JUNE 30, 2020  
(Dollars in thousands)**

**(6) Post-Employment Healthcare Plan**

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

	<u>2020</u>	<u>2019</u>	<u>2018</u>	<u>2017</u>	<u>2016</u>
Total OPEB Liability	\$ 173,712	\$ 167,770	\$ 167,894	\$ 171,443	\$ 158,219
Plan fiduciary net position	<u>(40,841)</u>	<u>(36,762)</u>	<u>(32,088)</u>	<u>(26,358)</u>	<u>(24,156)</u>
Net OPEB liability	<u>\$ 132,871</u>	<u>\$ 131,008</u>	<u>\$ 135,806</u>	<u>\$ 145,085</u>	<u>\$ 134,063</u>
Plan fiduciary net position as a percentage of total OPEB liability	23.51%	21.91%	19.11%	15.37%	15.27%
Covered-employee payroll	\$ 203,541	\$ 193,717	\$ 182,032	\$ 174,586	\$ 166,886
Plan net OPEB liability as a percentage of covered-employee payroll	65.28%	67.63%	74.61%	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-employee payroll*	Contributions as a percentage of covered employee payroll
2010	\$ 7,725	\$ 7,725	\$ -	\$ 161,641	4.78%
2011	7,494	7,494	-	160,336	4.67%
2012	7,495	7,495	-	158,481	4.73%
2013	7,772	7,772	-	153,707	5.06%
2014	8,457	8,457	-	159,513	5.30%
2015	8,964	8,964	-	166,886	5.37%
2016	9,454	9,454	-	174,586	5.42%
2017	9,764	9,764	-	182,032	5.36%
2018	9,875	9,875	-	193,717	5.10%
2019	10,518	10,518	-	203,541	5.17%
2020	11,089	11,089	-	216,549	5.12%

\*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 there be different from the actual payroll 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 post-employment healthcare plan are based.

Unaudited

**EAST BAY MUNICIPAL UTILITY DISTRICT**  
**NOTES TO REQUIRED SUPPLEMENTARY INFORMATION**  
**FOR THE YEAR ENDED JUNE 30, 2020**  
**(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, 2017
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 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:	
Investment Rate of 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, 2020  
(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, 2017
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 last five years. Unrecognized return is equal to the difference between the actual market return and the of 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:	
Investment Rate of Return	7.25%, 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	Non-Medicare: 6.75% graded to ultimate 4.50% over 10 years Medicare: 6.25% graded to ultimate 4.50% over 8 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  
EMPLOYEES' RETIREMENT SYSTEM TRUST FUND  
COMBINING BALANCE SHEET**

**June 30, 2020**

(With summarized comparative financial information as of June 30, 2019)  
(DOLLARS IN THOUSANDS)

	<b>2020</b>			<b>2019 Total</b>
	<b>Pension plan benefits</b>	<b>Post- employment healthcare benefits</b>	<b>Total</b>	
<b>Assets:</b>				
Cash and cash equivalents, at fair value (Note 2)	\$ 56,506	\$ 1,346	\$ 57,852	\$ 42,729
Invested securities lending collateral	78,852	1,879	80,731	48,857
Prepaid expenses	-	575	575	560
Receivables:				
Brokers, securities sold	464	11	475	1,647
Employer	1,960	286	2,246	1,674
Plan members	484	-	484	357
Interest, dividends and recoverable taxes	4,597	110	4,707	4,300
<b>Total Receivables</b>	<b>7,505</b>	<b>407</b>	<b>7,912</b>	<b>7,978</b>
Investments, at fair value (Note 2):				
U.S. government obligations	140,566	3,349	143,915	95,799
Municipal bonds	689	16	705	1,871
Domestic corporate bonds	292,017	6,958	298,975	342,052
International bonds	19,332	461	19,793	23,291
Domestic stocks	830,047	19,779	849,826	819,025
International stocks	388,176	9,250	397,426	415,642
Real estate	93,423	2,226	95,649	98,133
<b>Total Investments</b>	<b>1,764,250</b>	<b>42,039</b>	<b>1,806,289</b>	<b>1,795,813</b>
<b>Total Assets</b>	<b>1,907,113</b>	<b>46,246</b>	<b>1,953,359</b>	<b>1,895,937</b>
<b>Liabilities:</b>				
Accounts payable and accrued expenses	2,341	55	2,396	2,757
Payables to brokers, securities purchased	12,329	294	12,623	11,358
Securities lending collateral (Note 2)	78,852	1,879	80,731	48,857
<b>Total Liabilities</b>	<b>93,522</b>	<b>2,228</b>	<b>95,750</b>	<b>62,972</b>
Net position restricted for pension benefits and post-employment healthcare benefits	1,813,591	44,018	1,857,609	1,832,965
<b>Total Net Position</b>	<b>\$ 1,813,591</b>	<b>\$ 44,018</b>	<b>\$ 1,857,609</b>	<b>\$ 1,832,965</b>

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, 2020**

**(With summarized comparative financial information for the year ended June 30, 2019)  
(DOLLARS IN THOUSANDS)**

	<b>2020</b>			<b>2019 Total</b>
	<b>Pension plan benefits</b>	<b>Post- employment healthcare benefits</b>	<b>Total</b>	
<b>Additions:</b>				
Contributions:				
Employers	\$ 77,645	\$ 11,089	\$ 88,734	\$ 84,551
Plan members	18,690	195	18,885	17,865
<b>Total Contributions</b>	<b>96,335</b>	<b>11,284</b>	<b>107,619</b>	<b>102,416</b>
<b>Investment Income:</b>				
Net appreciation (depreciation) in fair value investments:				
Traded securities	12,961	290	13,251	67,474
Real estate	673	15	688	1,667
Interest	14,027	314	14,341	11,295
Dividends	16,002	358	16,360	17,785
Real estate operating income, net	1,946	44	1,990	1,245
<b>Total Investment Income</b>	<b>45,609</b>	<b>1,021</b>	<b>46,630</b>	<b>99,466</b>
Less:				
Investment expense	(4,753)	(111)	(4,864)	(4,993)
Borrowers' rebates and other agent fees on securities lending transactions	(883)	(20)	(903)	(1,219)
Net Investment Income	39,973	890	40,863	93,254
<b>Total Additions, net</b>	<b>136,308</b>	<b>12,174</b>	<b>148,482</b>	<b>195,670</b>
<b>Deductions:</b>				
Benefits paid	112,926	8,963	121,889	114,168
Refunds of contributions	462	-	462	267
Administrative expenses	1,453	34	1,487	1,510
<b>Total Deductions</b>	<b>114,841</b>	<b>8,997</b>	<b>123,838</b>	<b>115,945</b>
<b>Changes in Net Position</b>	<b>21,467</b>	<b>3,177</b>	<b>24,644</b>	<b>79,725</b>
<b>Net Position - Beginning of the Year</b>	<b>1,792,124</b>	<b>40,841</b>	<b>1,832,965</b>	<b>1,753,240</b>
<b>Net Position - End of the Year</b>	<b>\$ 1,813,591</b>	<b>\$ 44,018</b>	<b>\$ 1,857,609</b>	<b>\$ 1,832,965</b>

See Accompanying Notes to Financial Statements



INDEPENDENT AUDITORS' 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*

To the 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, 2020, and the related notes to the financial statements, which collectively comprise the District's basic financial statements, and have issued our report thereon dated August 31, 2020.

**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 entity'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.



To the Board of Directors  
East Bay Municipal Utility District  
Oakland, California

### **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*.

### **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.

A handwritten signature in black ink that reads "Lance, Solt &amp; Lughard, LLP". The signature is written in a cursive, flowing style.

Sacramento, California  
August 31, 2020

## **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**

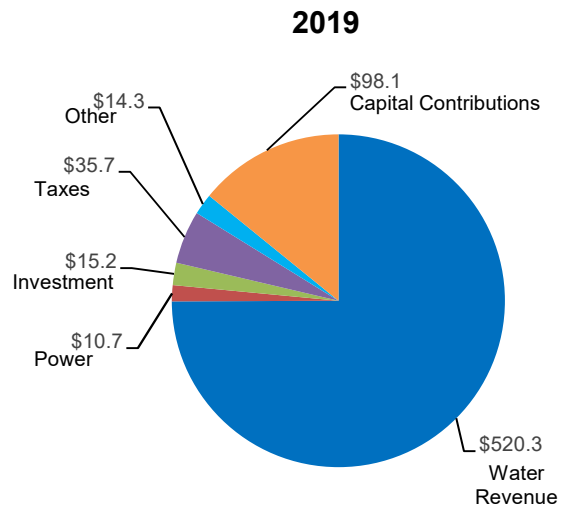
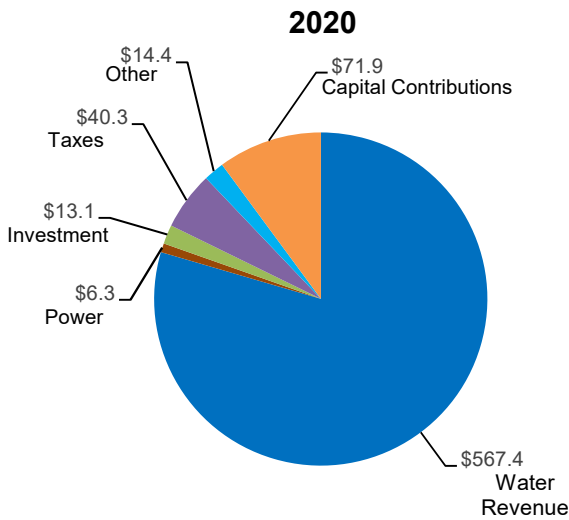
- Comparative Highlights
- Ten-Year Summary of Financial Data
- Changes in Net Position
- Net Position by Component

**Financial Trends  
Comparative Highlights**

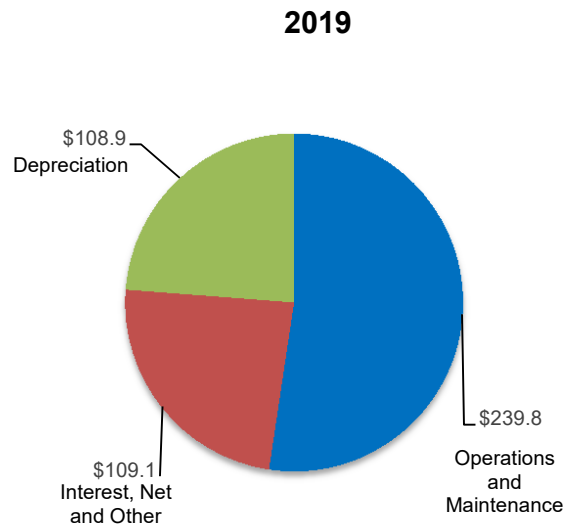
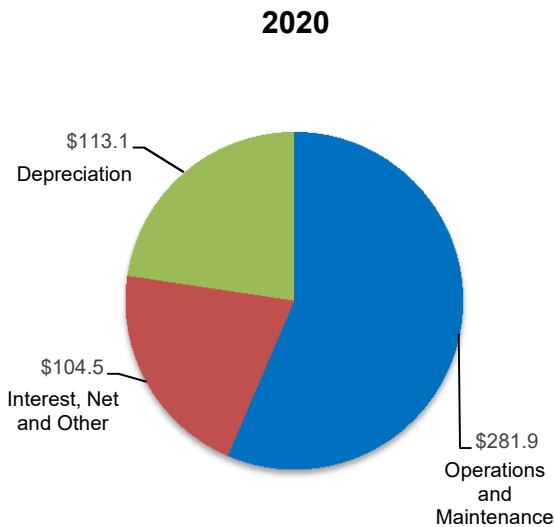
Fiscal Years 2020 and 2019

**Water System**

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



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



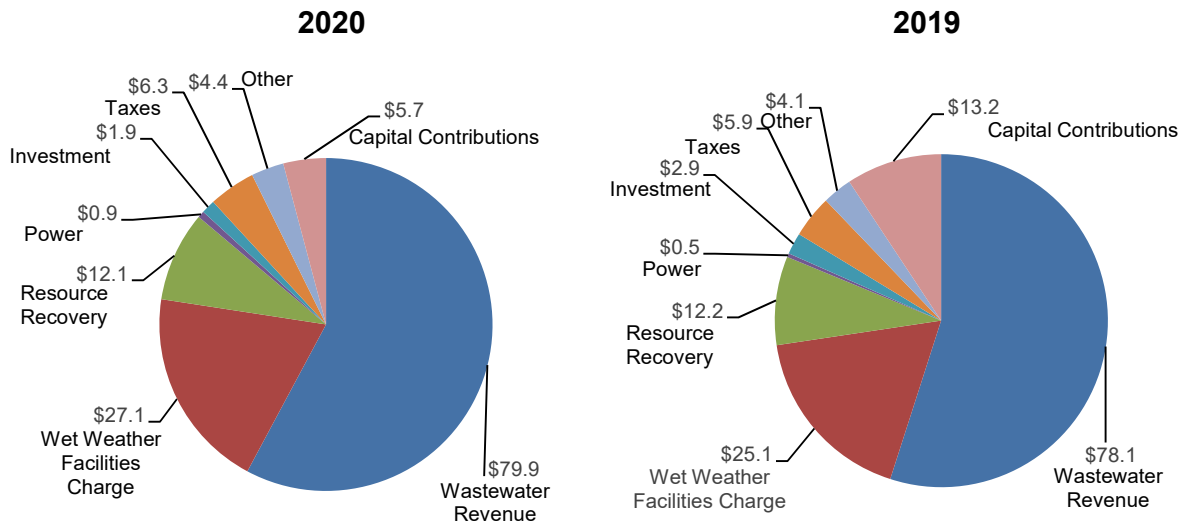
Sources: Financial Statements

**Financial Trends  
Comparative Highlights(continued)**

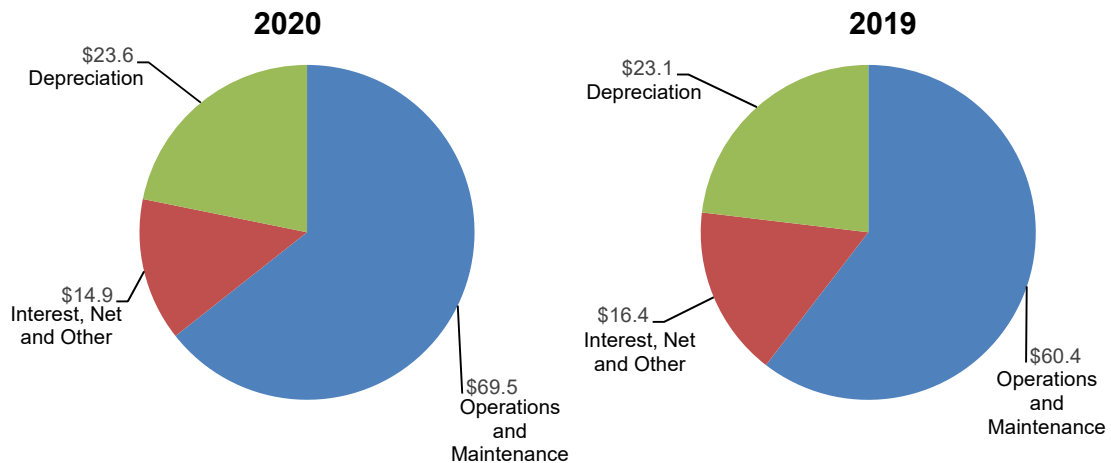
Fiscal Years 2020 and 2019

**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 2011 to 2020  
(in Millions)

	Fiscal Year Ended June 30									
	2020	2019	2018	2017	2016	2015	2014	2013	2012	2011
<b>Water System</b>										
Revenues										
Water Revenue <sup>(4)</sup>	\$ 567.4	\$ 520.3	\$ 480.8	\$ 420.3	\$ 421.2	\$ 362.1	\$ 367.6	\$ 336.1	\$ 306.2	\$ 283.6
Taxes	40.3	35.7	34.7	32.0	29.9	27.9	25.5	26.4	23.4	22.2
Investment	13.1	15.2	6.1	2.1	2.2	3.6	2.2	2.6	4.7	5.3
Power	6.3	10.7	6.4	7.8	3.5	2.2	1.4	3.6	4.6	8.1
Capital Contributions	71.9	98.1	87.6	75.9	60.8	71.5	49.0	55.8	45.2	45.8
Other <sup>(1)</sup>	14.4	14.3	14.8	14.9	14.0	15.3	19.9	12.8	16.2	68.3
Total Revenues	713.4	694.4	630.3	552.9	531.6	482.6	465.6	437.3	400.3	433.3
Expenses										
Operations and Maintenance	281.9	239.8	240.4	243.9	242.0	211.6	237.3	223.0	215.2	211.2
Depreciation	113.1	108.9	105.4	102.6	97.3	94.1	90.4	87.3	83.7	76.2
Interest, Net and Other <sup>(2)/(3)</sup>	104.5	109.1	110.6	98.8	98.3	101.2	116.3	101.3	133.2	146.5
Total Expenses	499.4	457.9	456.4	445.2	437.6	406.9	444.0	411.6	432.1	433.9
<b>Changes in Net Position</b>	\$ 214.0	\$ 236.5	\$ 173.9	\$ 107.8	\$ 94.0	\$ 75.7	\$ 21.6	\$ 25.7	\$ (31.8)	\$ (0.6)

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

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

<sup>(3)</sup> Other expense in 2012 includes \$25 million GASB 64 expense due to changing SWAP counter parties. Refer to fiscal year 2012 Financial Statements Note 6F for details.

<sup>(4)</sup> Water Revenue increased by \$47 million due to a 6.5% water rate increase and a 3.5% increase of billed water consumption in 2020.

Sources: Financial Statements

**Financial Trends**  
**Ten-Year Summary of Financial Data**

Fiscal Years 2011 to 2020  
 (in Millions)

	2020	2019	2018	2017	2016	2015	2014	2013	2012	2011
<b>Wastewater System</b>										
Revenues										
Wastewater Revenue	\$ 79.9	\$ 78.1	\$ 74.7	\$ 70.0	\$ 65.9	\$ 65.1	\$ 61.7	\$ 58.8	\$ 55.2	\$ 50.9
Wet Weather										
Facilities Charges	27.1	25.1	24.3	23.1	21.9	21.8	19.4	18.3	17.2	16.1
Resource Recovery	12.1	12.2	11.8	11.9	11.6	11.3	10.6	9.3	9.1	9.4
Power	0.9	0.5	1.1	0.9	1.3	1.1	1.1	0.7	0.3	-
Taxes	6.3	5.9	6.8	7.8	7.9	8.5	9.9	9.4	8.3	7.4
Investment	1.9	2.9	1.0	0.4	0.5	0.2	0.3	2.6	0.6	1.3
Capital Contributions	5.7	13.2	11.4	8.9	4.2	3.1	1.2	1.6	2.8	3.1
Other	4.4	4.1	5.9	4.4	3.9	4.5	5.2	3.4	3.1	2.4
<b>Total Revenues</b>	<b>138.2</b>	<b>142.1</b>	<b>137.0</b>	<b>127.3</b>	<b>117.2</b>	<b>115.6</b>	<b>109.4</b>	<b>104.1</b>	<b>96.6</b>	<b>90.6</b>
Expenses										
Operations and Maintenance	69.5	60.4	61.8	59.3	53.1	54.8	56.0	52.5	52.5	51.8
Depreciation	23.6	23.1	22.7	22.7	22.5	24.2	22.2	21.9	19.7	19.1
Interest, Net and Other	14.9	16.4	16.7	17.1	16.9	25.1	17.6	18.5	19.9	16.0
<b>Total Expenses</b>	<b>108.0</b>	<b>99.9</b>	<b>101.2</b>	<b>99.0</b>	<b>92.5</b>	<b>104.1</b>	<b>95.8</b>	<b>92.9</b>	<b>92.1</b>	<b>86.9</b>
<b>Changes in Net Position</b>	<b>\$ 30.2</b>	<b>\$ 42.3</b>	<b>\$ 35.8</b>	<b>\$ 28.3</b>	<b>\$ 24.7</b>	<b>\$ 11.5</b>	<b>\$ 13.6</b>	<b>\$ 11.2</b>	<b>\$ 4.5</b>	<b>\$ 3.7</b>

Sources: Financial Statements

**Financial Trends**  
**Changes in Net Position**

Fiscal Years 2011 to 2020  
(In Millions)

	<b>Fiscal Year Ended June 30</b>									
	<b>2020</b>	<b>2019</b>	<b>2018</b>	<b>2017</b>	<b>2016</b>	<b>2015</b>	<b>2014</b>	<b>2013</b>	<b>2012</b>	<b>2011</b>
<b>Operating Revenues</b>										
Charges for services:										
Water <sup>(1)</sup>	\$ 567.4	\$ 520.3	\$ 480.8	\$ 420.3	\$ 421.2	\$ 362.1	\$ 367.6	\$ 336.1	\$ 306.2	\$ 283.6
Wastewater	119.0	115.4	110.8	105.0	99.4	98.2	91.7	86.4	81.5	76.4
Power	7.2	11.3	7.6	8.7	4.8	3.3	2.5	4.3	4.9	8.1
Total Operating Revenues	693.7	647.1	599.1	534.0	525.4	463.6	461.8	426.8	392.6	368.1
<b>Operating Expenses</b>										
Water	395.0	348.8	345.8	346.4	339.3	305.7	327.8	310.3	299.0	287.4
Wastewater	93.1	83.4	84.5	81.9	75.6	79.0	78.3	74.4	72.2	70.9
Total Operating Expenses	488.0	432.2	430.3	428.3	414.9	384.7	406.1	384.7	371.2	358.3
Operating Activities	205.7	214.9	168.8	105.7	110.5	78.9	55.7	42.1	21.4	9.8

<sup>(1)</sup> Water Revenue increased by \$47 million due to a 6.5% water rate increase and a 3.5% increase of billed water consumption in 2020.

**Financial Trends**

**Changes in Net Position (continued)**

Fiscal Years 2011 to 2020  
(In Millions)

	2020	2019	2018	2017	2016	2015	2014	2013	2012	2011
<b>Fiscal Year Ended June 30</b>										
<b>General Revenues and</b>										
<b>Other Changes in Net Position</b>										
Non-Operating Activities										
Investment income	\$ 14.9	\$ 18.1	\$ 7.1	\$ 2.5	\$ 2.7	\$ 3.8	\$ 2.5	\$ 5.2	\$ 5.2	\$ 6.6
Taxes and subventions	46.6	41.6	41.5	39.8	37.8	36.4	35.4	35.8	31.7	29.6
Interest and amortization of bond expenses	(113.5)	(119.6)	(120.7)	(109.7)	(109.3)	(124.3)	(121.1)	(116.3)	(121.3)	(105.8)
Other income (expense)	12.9	12.4	14.0	13.0	12.0	17.8	12.4	12.7	(12.3)	14.0
Capital grants and contributions	77.6	111.4	99.0	84.8	65.0	74.6	50.2	57.4	48.0	48.9
Total Non-Operating Activities	38.5	63.9	40.9	30.4	8.1	8.3	(20.6)	(5.2)	(48.7)	(6.7)
<b>Changes in Net Position<sup>(1)</sup></b>	\$ 244.3	\$ 278.7	\$ 209.7	\$ 136.1	\$ 118.6	\$ 87.2	\$ 35.1	\$ 36.9	\$ (27.3)	\$ 3.1

<sup>(1)</sup> Fiscal year 2015 of \$87.2 is for operating items only and does not include the GASB 68 adjustment. Refer to fiscal year 2015 Financial Statements Note 8 for details.

Fiscal year 2012 of \$(27.3) is for operating items only and does not include the GASB 65 adjustment. Refer to fiscal year 2012 Financial Statements Note 6G for details.

**Financial Trends**  
**Net Position by Component**

Fiscal Years 2011 to 2020  
(In Millions)

	<b>Fiscal Year Ended June 30</b>									
	<b>2020</b>	<b>2019</b>	<b>2018***</b>	<b>2017</b>	<b>2016</b>	<b>2015**</b>	<b>2014</b>	<b>2013</b>	<b>2012*</b>	<b>2011</b>
Net investment in capital assets	\$ 1,840.2	\$ 1,549.6	\$ 1,494.4	\$ 1,204.4	\$ 1,249.6	\$ 1,047.3	\$ 1,083.4	\$ 1,031.4	\$ 983.5	\$ 1,202.7
Restricted for construction	20.3	20.0	20.0	19.8	19.7	19.6	21.8	21.1	22.7	42.9
Restricted for debt service	4.2	4.6	3.8	4.2	12.7	13.6	32.8	36.9	73.5	63.8
Restricted-other	225.9	229.0	232.5	235.9	239.7	242.9	243.0	256.5	251.4	25.5
Unrestricted	42.8	86.1	(120.8)	64.1	(129.4)	(49.7)	282.7	282.7	260.5	297.5
<b>Total business-type activities net position</b>	<b>\$ 2,133.4</b>	<b>\$ 1,889.3</b>	<b>\$ 1,629.9</b>	<b>\$ 1,528.4</b>	<b>\$ 1,392.3</b>	<b>\$ 1,273.7</b>	<b>\$ 1,663.7</b>	<b>\$ 1,628.6</b>	<b>\$ 1,591.6</b>	<b>\$ 1,632.4</b>

**Business-type activities**

Total business-type activities net position

\*Restated for GASB 65 in 2012.  
 \*\*Implementation of GASB 68 in 2015.  
 \*\*\*Implementation of GASB 75 in 2018.

## 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 2011 to 2020

**Water System**  
(In Millions)

	Fiscal Year Ended June 30									
	2020	2019	2018	2017	2016	2015	2014	2013	2012	2011
Water <sup>(2)</sup>	\$567.4	\$520.3	\$480.8	\$420.3	\$421.2	\$362.1	\$367.6	\$336.1	\$306.2	\$283.6
Taxes	40.3	35.7	34.7	32.0	29.9	27.9	25.5	26.4	23.4	22.2
Interest	13.1	15.2	6.1	2.1	2.2	3.5	1.7	3.7	6.4	5.7
Power	6.3	10.7	6.4	7.8	3.5	2.2	1.4	3.6	4.6	8.1
Rental & Other <sup>(1)</sup>	14.4	14.3	14.8	14.9	14.0	15.4	20.4	11.7	14.5	67.9
<b>Total</b>	<b>\$641.5</b>	<b>\$596.2</b>	<b>\$542.8</b>	<b>\$477.0</b>	<b>\$470.8</b>	<b>\$411.1</b>	<b>\$416.6</b>	<b>\$381.5</b>	<b>\$355.1</b>	<b>\$387.5</b>

<sup>(1)</sup> 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.

<sup>(2)</sup> Water Revenue increased by \$47 million due to a 6.5% water rate increase and a 3.5% increase of billed water consumption in 2020.

**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 2011 to 2020

**Wastewater System**  
(In Millions)

	Fiscal Year Ended June 30									
	2020	2019	2018	2017	2016	2015	2014	2013	2012	2011
Wastewater	\$ 79.9	\$ 78.1	\$ 74.7	\$ 70.0	\$ 65.9	\$ 65.1	\$ 61.7	\$ 58.8	\$ 55.2	\$ 50.9
Wet Weather Facilities	27.1	25.1	24.3	23.1	21.9	21.8	19.4	18.3	17.2	16.1
Resource Recovery	12.1	12.2	11.8	11.9	11.6	11.3	10.6	9.3	9.1	9.4
Power	0.9	0.5	1.1	0.9	1.3	1.1	1.1	0.7	0.3	-
Taxes	6.3	5.9	6.8	7.8	7.9	8.5	9.9	9.4	8.3	7.4
Interest	1.9	2.9	1.0	0.4	0.5	0.3	0.2	0.9	1.7	2.0
Other	4.4	4.1	5.9	4.4	3.9	4.4	5.3	5.0	2.1	1.6
<b>Total</b>	<b>\$ 132.5</b>	<b>\$ 128.9</b>	<b>\$ 125.6</b>	<b>\$ 118.5</b>	<b>\$ 113.0</b>	<b>\$ 112.5</b>	<b>\$ 108.2</b>	<b>\$ 102.4</b>	<b>\$ 93.9</b>	<b>\$ 87.4</b>

**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 2011 to 2020

<u>Fiscal Year</u>	<u>Water</u>		<u>Wastewater</u>	
	<u>Monthly Base Rate</u>	<u>Rate per 748 (1ccf) Gallons</u>	<u>Monthly Base Rate</u>	<u>Rate per 748 (1ccf) Gallons</u>
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
2018	22.60	3.45	13.85	1.14
2019	24.63	3.76	14.55	1.20
2020	26.23	4.00	14.33	1.27

**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 2011 to 2020

**Water System**

(In Millions)

<b>Fiscal Year</b>	<b>Total Revenue <sup>(1)</sup></b>	<b>Operations &amp; Maintenance Expense <sup>(2)</sup></b>	<b>Net Revenue Available for Debt Service</b>	<b>Debt Service</b>	<b>Coverage Ratio</b>
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
2018	579.2	198.3	380.9	177.2	2.15
2019	629.3	210.9	418.4	178.1	2.35
2020	653.6	223.9	429.7	188.6	2.28

\* Restated to match current format which includes capacity fees

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

<sup>(2)</sup> 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 2011 to 2020

**Wastewater System**

(In Millions)

<b>Fiscal Year</b>	<b>Total Revenue</b> <sup>(1)</sup>	<b>Operations &amp; Maintenance Expense</b> <sup>(2)</sup>	<b>Net Revenue Available for Debt Service</b>	<b>Debt Service</b>	<b>Coverage Ratio</b>
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
2018 <sup>(3)</sup>	127.9	57.2	70.7	26.7	2.65
2019	133.2	57.6	75.6	26.7	2.83
2020	129.4	60.2	69.2	26.7	2.59

\* Restated to match current format which includes capacity fees

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

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

<sup>(3)</sup> In accordance with amendments to the bond indenture, commencing in fiscal year 2018 the BABs interest subsidy payments received by the District are treated as an offset to interest paid by the District on the Series 2010B revenue bonds. The MD&A section cites a preliminary coverage ratio for fiscal year 2018 that applies the previous methodology under which the BABs subsidy is treated as revenue.

## **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
- Summary of Debt Outstanding

**Debt Capacity  
Debt Ratings**

June 30, 2020

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

Sources: Financial Statements

**Debt Capacity**  
**Outstanding Debt by Type and per Account**

Fiscal Years 2011 to 2020

**Water System**

(In thousands)

<b>Fiscal Year</b>	<b>General Obligation Bonds <sup>(1)</sup></b>	<b>Revenue Bonds <sup>(1)</sup></b>	<b>Loans Payable <sup>(1)</sup></b>	<b>Commercial Paper Notes <sup>(1)</sup></b>	<b>Total Outstanding Debt</b>	<b>Accounts <sup>(2)</sup></b>	<b>Total Outstanding Debt Per Account</b>
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
2018	-	2,359,895	14,060	359,800	2,733,755	383	7.14
2019	-	2,461,625	12,885	359,800	2,834,310	383	7.40
2020	-	2,396,190	35,068	335,800	2,767,058	385	7.19

**Wastewater System**

(In thousands)

<b>Fiscal Year</b>	<b>General Obligation Bonds <sup>(1)</sup></b>	<b>Revenue Bonds <sup>(1)</sup></b>	<b>Loans Payable <sup>(1)</sup></b>	<b>Commercial Paper Notes <sup>(1)</sup></b>	<b>Total Outstanding Debt</b>	<b>Accounts <sup>(2)</sup></b>	<b>Total Outstanding Debt Per Account</b>
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
2018	-	380,075	-	15,000	395,075	177	2.23
2019	-	369,705	-	15,000	384,705	177	2.17
2020	-	358,845	-	10,000	368,845	179	2.06

Source: <sup>(1)</sup> Financial Summary

<sup>(2)</sup> Customer Information System

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

As of June 30, 2020

(In Thousands)

**Water System**

Authorized but unissued revenue bonds	\$	602,410
Outstanding short-term debt (due within one year)	\$	67,385

**Wastewater System**

Authorized but unissued revenue bonds	\$	186,025
Outstanding short-term debt (due within one year)	\$	10,955

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

 Fiscal Years 2011 to 2020  
(In Thousands)

<b>Water System</b>					
<b>Fiscal Year</b>	<b>Accounts <sup>(1)</sup></b>	<b>General Obligation Bonded Debt <sup>(2)</sup></b>	<b>General Bonded Debt Per Account</b>	<b>Annual Billings <sup>(2)</sup></b>	<b>Percentage of General Bonded Debt To Annual Billings</b>
2011	383	-	-	283,643	0.00%
2012	378	-	-	306,229	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%
2018	383	-	-	480,745	0.00%
2019	384	-	-	520,344	0.00%
2020	385	-	-	567,394	0.00%

<b>Wastewater System</b>					
<b>Fiscal Year</b>	<b>Accounts <sup>(1)</sup></b>	<b>General Obligation Bonded Debt <sup>(2)</sup></b>	<b>General Bonded Debt Per Account</b>	<b>Annual Billings <sup>(2)</sup></b>	<b>Percentage of General Bonded Debt To Annual Billings</b>
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%
2018	177	-	-	74,727	0.00%
2019	177	-	-	78,108	0.00%
2020	179	-	-	79,882	0.00%

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

 Source: <sup>(1)</sup> Financial Summary

<sup>(2)</sup> Customer Information System.



**Debt Capacity  
Summary of Debt Outstanding\***

As of June 30, 2020  
(In Thousands)

**Water System**

**Revenue Bonds**

Series 2008A	\$	105,250
Series 2010B		400,000
Series 2012A		81,750
Series 2012B		133,580
Series 2013A		7,585
Series 2014A		128,315
Series 2014B		208,265
Series 2014C		75,000
Series 2015A		429,360
Series 2015B		74,335
Series 2015C		110,715
Series 2017A		185,355
Series 2017B		297,130
Series 2019A		159,550

<b>Total Water System Debt Outstanding</b>	<b>\$</b>	<b>2,396,190</b>
--	-----------	------------------

**Wastewater System**

**Revenue Bonds**

Series 2010B		150,000
Series 2012A		20,000
Series 2014A		56,835
Series 2015A		68,370
Series 2015B		1,975
Series 2017A		61,665

<b>Total Wastewater System Debt Outstanding</b>	<b>\$</b>	<b>358,845</b>
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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 2020

		<u>Water System</u>	<u>Wastewater System</u>
<b>Established</b>		1923	1944
<b>Service Area</b>	(square miles)	332	88
<b>Population Served</b>	(in thousands)	1,450	776
<b>Unemployment Rate</b>	(Alameda County - %)	13.5	13.5
<b>Facilities:</b>			
Miles of aqueducts		105.21	-
Miles of pipeline		4,142	-
Miles of tunnels		17.94	-
Miles of interceptors		-	29
Number of treatment plants*		10	-
Number of pumping stations		124	15
Number of treated water reservoirs		168	-
Number of reservoirs		175	-
Total District untreated water reservoir capacity	(acre feet)	756,695	-
<b>Water demand per fiscal year</b>			
District-provided water	(acre feet)	187,966	-
<b>Water recycling per day</b>	(in million gallons)	-	5.60
<b>Wastewater treatment capacity</b>			
Primary treatment		-	320
Secondary treatment		-	168
<b>Energy Recovery</b>	(%)	-	129
<b>Number of active employees</b>		1,692	265
<b>Average years of service of employees</b>		11	10

\* Includes one standby treatment plant

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

# Statistical Section (continued)

## East Bay Municipal Utility District

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

Fiscal Years 2011 to 2020  
(In Thousands)

	2020 <sup>(1)</sup>	2019 <sup>(1)</sup>	2018 <sup>(1)</sup>	2017 <sup>(1)</sup>	2016 <sup>(1)</sup>	2015 <sup>(1)</sup>	2014 <sup>(1)</sup>	2013 <sup>(1)</sup>	2012 <sup>(1)</sup>	2011 <sup>(1)</sup>										
	Billings	%	Billings	%	Billings	%	Billings	%	Billings	%										
Residential	\$ 320,889	56.86%	\$ 288,399	55.42%	\$ 268,281	55.81%	\$ 233,141	55.47%	\$ 225,648	53.57%	\$ 200,426	55.35%	\$ 209,212	56.92%	\$ 191,639	57.02%	\$ 191,905	62.67%	\$ 174,712	61.60%
Commercial	174,566	30.93%	163,065	31.34%	151,596	31.53%	132,882	31.62%	137,572	32.66%	114,837	31.71%	113,723	30.94%	104,629	31.13%	76,450	24.96%	69,358	24.45%
Industrial	43,556	7.72%	44,941	8.64%	38,354	7.98%	35,287	8.40%	38,598	9.16%	30,144	8.32%	26,815	7.30%	23,432	6.97%	23,724	7.75%	25,807	9.10%
Public Authority & Other	25,383	4.50%	23,939	4.60%	22,514	4.68%	18,983	4.52%	19,422	4.81%	16,729	4.62%	17,797	4.84%	16,365	4.87%	14,150	4.62%	13,765	4.85%
<b>Total annual billings</b>	<b>\$ 564,394</b>	<b>100%</b>	<b>\$ 520,344</b>	<b>100%</b>	<b>\$ 480,745</b>	<b>100%</b>	<b>\$ 420,293</b>	<b>100%</b>	<b>\$ 421,240</b>	<b>100%</b>	<b>\$ 362,136</b>	<b>100%</b>	<b>\$ 367,547</b>	<b>100%</b>	<b>\$ 336,065</b>	<b>100%</b>	<b>\$ 306,229</b>	<b>100%</b>	<b>\$ 283,643</b>	<b>100%</b>

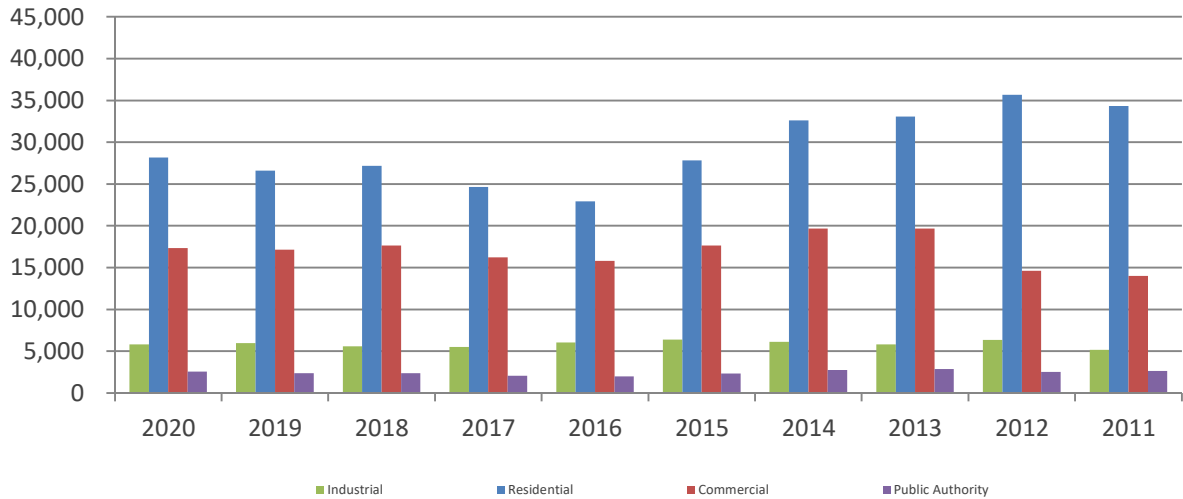
Top 1 Rate Payer	\$ 17,587	3.12%	\$ 20,428	3.93%	\$ 17,550	3.65%	\$ 16,139	3.84%	\$ 18,023	4.28%	\$ 13,709	3.79%	\$ 12,638	3.44%	\$ 9,175	2.73%	\$ 9,402	3.07%	\$ 9,957	3.51%
Top 10 Rate Payers	52,631	9.33%	52,820	10.15%	46,613	9.70%	41,967	9.99%	46,702	11.09%	37,498	10.35%	35,760	9.73%	31,128	9.26%	26,449	8.64%	26,267	9.26%

(1) The 10 year annual billings by Type of Customer figures were adjusted from 5 revenue types to 4 (eliminating the FY2011 to FY2019 OTHER type). The total annual billing figures are unchanged.

Source: Customer Information System

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

Fiscal Years 2011 to 2020



**Type of Customer**

<b>Fiscal Year</b>	<b>Residential</b>	<b>Commercial</b>	<b>Industrial</b>	<b>Public Authority</b>	<b>Total</b>
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
2018	27,175	17,636	5,568	2,366	52,745
2019	26,601	17,134	5,972	2,377	52,084
2020	28,184	17,350	5,833	2,563	53,930

Source: Customer Information System

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

Fiscal Years 2020 and 2019

<b>Water System</b>	<b>2020</b>	<b>2019</b>
<b>During the Year:</b>		
Total Water Production, millions of gallons	61,249	59,677
Average Daily Water Production, MGD*	167	164
Maximum Daily Water Production, MGD	227	221
Minimum Daily Water Production, MGD	110	115
<b>At Year End:</b>		
Number of Accounts	385,067	384,408
Number of Active Employees	1,692	1,658
Miles of Water Distribution Pipe	4,142	4,135
Operating Distribution Storage Capacity, millions of gallons	604	633
<b>Wastewater System</b>		
<b>During the Year:</b>		
Average Daily Wastewater Flow, MGD	61	61
<b>At Year End:</b>		
Number of Accounts	179,341	177,361
Number of Active Employees	265	251

\* millions of gallons per day

**Demographic and Economic Information  
Area Employment Information**

Fiscal Years 2019 to 2020

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<b>Rank</b>	<b>Company</b>	<b>Estimated Total Employees</b>	<b>Percentage of Total County Employment</b>
1	Kaiser Permanente Medical Group Inc.	61,260	4.50%
2	Sutter Health	24,347	1.79%
3	Wells Fargo Bank	14,000	1.03%
4	Safeway Inc.	13,397	0.98%
5	Chevron Corporation	10,006	0.73%
6	Tesla	10,000	0.73%
7	PG&E Corporation	9,600	0.70%
8	John Muir Health	9,509	0.70%
9	County of Alameda	9,428	0.69%
10	Oracle Corp	7,535	0.55%

Previous years data unavailable.

Source: County of Alameda and County of Contra Costa Area Employment, CAFR FY2019.

## **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 2011 to 2020

<u>Function/Program</u>	<u>Fiscal Year Ended June 30</u>									
	<u>2020</u> <sup>(1)</sup>	<u>2019</u>	<u>2018</u>	<u>2017</u>	<u>2016</u>	<u>2015</u>	<u>2014</u>	<u>2013</u>	<u>2012</u>	<u>2011</u>
Maintenance and Construction	670.5	796.5	792.0	764.0	760.0	732.5	732.5	732.0	699.0	660.0
Water Operations and Maintenance	342.8	186.5	186.0	188.0	189.0	196.5	196.5	197.5	196.5	232.5
Water Resources	38.5	37.0	36.5	37.5	39.0	38.0	40.0	44.0	46.0	44.0
Natural Resources	66.5	68.5	68.5	68.5	69.5	69.5	69.5	69.5	69.5	69.5
Engineering and Construction	287.5	275.5	275.5	267.5	264.0	250.5	250.5	250.5	258.5	255.5
Office of the General Manager	26.5	25.5	25.5	25.5	25.5	26.5	25.5	25.5	29.5	29.5
Finance	102.5	99.5	99.5	99.5	98.5	97.5	96.5	97.5	55.0	57.0
Information Systems	94.0	97.0	96.0	94.0	96.0	92.0	93.0	95.0	94.0	94.0
Administration Department	2.0	2.0	2.0	2.0	2.0	2.0	56.0	57.0	103.5	106.5
Customer and Community Services	152.5	152.5	152.5	153.5	151.5	142.5	101.0	104.0	138.0	138.0
Human Resources	60.0	60.0	61.5	56.5	58.5	58.0	47.5	47.5	49.5	48.5
Office of General Counsel	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	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	288.5	289.5	287.5	286.5	285.5	288.5	286.5	286.5	284.5	286.5
<b>Total</b>	<b>2,156.8</b>	<b>2,115.0</b>	<b>2,108.0</b>	<b>2,068.0</b>	<b>2,064.0</b>	<b>2,019.0</b>	<b>2,020.0</b>	<b>2,031.5</b>	<b>2,048.0</b>	<b>2,046.0</b>

**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.

<sup>(1)</sup> All positions in the Plant Engineering Services was transferred to the Water Operations & Maintenance from the Maintenance & Construction.

**Operating Information**  
**Assessed Valuation of Taxable Property**

Fiscal Years 2011 to 2020  
(In Millions)

	<b>Fiscal Year Ended June 30</b>									
	<b>2020</b>	<b>2019</b>	<b>2018</b>	<b>2017</b>	<b>2016</b>	<b>2015</b>	<b>2014</b>	<b>2013</b>	<b>2012</b>	<b>2011</b>
<b>Water System</b> <sup>(1)</sup>										
Alameda County	\$ 145,334	\$ 135,672	\$ 127,263	\$ 119,325	\$ 112,041	\$ 103,645	\$ 98,957	\$ 94,461	\$ 92,499	\$ 91,896
Contra Costa County*	120,648	114,736	108,186	102,561	96,473	89,683	83,101	81,233	79,611	79,540
<b>Total</b>	<b>\$ 265,982</b>	<b>\$ 250,408</b>	<b>\$ 235,449</b>	<b>\$ 221,886</b>	<b>\$ 208,514</b>	<b>\$ 193,328</b>	<b>\$ 182,058</b>	<b>\$ 175,694</b>	<b>\$ 172,110</b>	<b>\$ 171,436</b>
<b>Wastewater System</b> <sup>(1)</sup>										
Alameda County	\$ 112,572	\$ 104,791	\$ 98,101	\$ 91,776	\$ 85,882	\$ 79,134	\$ 75,006	\$ 71,935	\$ 70,660	\$ 70,004
Contra Costa County	6,769	6,397	6,027	5,674	5,291	4,843	4,437	4,216	4,336	4,370
<b>Total</b>	<b>\$ 119,341</b>	<b>\$ 111,188</b>	<b>\$ 104,128</b>	<b>\$ 97,450</b>	<b>\$ 91,173</b>	<b>\$ 83,977</b>	<b>\$ 79,443</b>	<b>\$ 76,151</b>	<b>\$ 74,996</b>	<b>\$ 74,374</b>

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.

\* Minor revision in Contra Costa County assessed valuation from amounts previously reported due to a change in source data used.  
<sup>(1)</sup> Historical Assessed Valuation for Tax Purposes numbers differ from those previously reported to correctly match the fiscal year of the County figures with the applicable fiscal year in the table. The amounts were offset by one year in the previous reports. In addition, minor differences in assessed valuation numbers from amounts previously reported can also occur from time to time due to a change in source data used.

**Operating Information**

**Ten-Year Summary of Property, Plant and Equipment**

Fiscal Years 2011 to 2020

**Water System**  
(In Millions)

	Fiscal Year Ended June 30									
	2020	2019 <sup>(1)</sup>	2018	2017	2016	2015	2014	2013	2012	2011
Structures, Buildings and Equipment	\$6,332.4	\$6,021.8	\$5,497.7	\$5,264.5	\$5,131.1	\$4,919.4	\$4,779.4	\$ 4,600.4	\$ 4,473.1	\$ 4,040.1
Less Accumulated Depreciation	(2,424.0)	(2,305.5)	(1,895.1)	(1,793.9)	(1,696.6)	(1,602.8)	(1,510.2)	(1,423.7)	(1,337.9)	(1,253.7)
Subtotal	3,908.4	3,716.3	3,602.6	3,470.6	3,434.5	3,316.6	3,269.2	3,176.7	3,135.2	2,786.4
Land and Rights-of-Way	73.8	70.9	65.0	64.5	58.7	58.4	55.2	55.5	55.4	52.9
Construction in Progress	497.6	522.9	472.4	405.4	303.0	309.4	243.2	252.5	209.8	716.6
Total Capital Assets, Net	\$ 4,479.8	\$ 4,310.1	\$ 4,140.0	\$ 3,940.5	\$ 3,796.2	\$ 3,684.4	\$ 3,567.6	\$ 3,484.7	\$ 3,400.4	\$ 3,555.9

<sup>(1)</sup> The FY2019 Structures, Buildings & Equipment and Accumulated Depreciation figures have been corrected to reflect changes made in the FY2020 Audited Financial Statements.

Sources: Financial Statements

**Operating Information**

**Ten-Year Summary of Property, Plant and Equipment**

Fiscal Years 2011 to 2020

**Wastewater System**  
(In Millions)

Fiscal Year Ended June 30

	2020	2019 <sup>(1)</sup>	2018	2017	2016	2015	2014	2013	2012	2011
Structures, Buildings and Equipment	\$ 1,178.7	\$ 1,166.6	\$ 1,114.6	\$ 1,073.5	\$ 1,027.6	\$ 991.7	\$ 969.6	\$ 899.9	\$ 877.7	\$ 815.8
Less Accumulated Depreciation	<u>(540.6)</u>	<u>(515.2)</u>	<u>(464.0)</u>	<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>
Subtotal	<u>638.1</u>	<u>651.4</u>	<u>650.6</u>	<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>
Land and Rights-of-Way	21.4	21.4	21.4	21.3	21.2	21.0	20.2	20.0	20.0	19.9
Construction in Progress	<u>98.5</u>	<u>68.2</u>	<u>43.9</u>	<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>
Total Capital Assets, Net	\$ 758.0	\$ 741.0	\$ 715.9	\$ 710.7	\$ 693.5	\$ 681.6	\$ 677.0	\$ 666.6	\$ 653.4	\$ 635.8

<sup>(1)</sup> The FY2019 Structures, Buildings & Equipment and Accumulated Depreciation figures have been corrected to reflect changes made in the FY2020 Audited Financial Statements.

Sources: Financial Statements

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

Fiscal Years 2011 to 2020

<u>Function/Program</u>	Fiscal Year Ended June 30									
	2020	2019	2018	2017	2016	2015	2014	2013	2012	2011
<b>Water System</b>										
Water mains (miles)	4,142	4,135	4,133	4,131	4,130	4,126	4,115	4,110	4,110	4,110
Fire hydrants	31,367	30,441	30,330	30,340	30,211	30,113	30,576	30,453	30,421	30,319
Reservoir storage at June 30 (in acre feet)	597,030	727,320	709,910	735,260	652,280	382,050	466,250	610,000	631,580	670,580
<b>Wastewater System</b>										
Sanitary sewers (miles)	Owned by \ 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 2011 to 2020

<u>Function/Program</u>	<b>Fiscal Year Ended June 30</b>									
	<b>2020</b>	<b>2019</b>	<b>2018</b>	<b>2017</b>	<b>2016</b>	<b>2015</b>	<b>2014</b>	<b>2013</b>	<b>2012</b>	<b>2011</b>
<b>Water System</b>										
New connections	582	1,086	590	760	741	1,041	621	534	426	477
Water main breaks	935	935	891	918	1,189	1,027	980	813	825	726
Average daily production (millions of gallons)	167	164	166	157	146	164	187	184	178	174
Peak daily production (millions of gallons)	227	221	232	222	186	221	288	253	251	260
<b>Wastewater System</b>										
Average daily sewage treatment (millions of gallons)	61	61	54	69	56	61	60	61	62	71

Source: NBO/CMS/Annual Report/Wastewater

# Statistical Section (continued)

## East Bay Municipal Utility District

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

Fiscal Years 2011 to 2020  
(In Millions)


	Fiscal Year Ended June 30									
	2020	2019	2018	2017	2016	2015	2014	2013	2012	2011*
Interest and Amortization of Bonds	\$ 113.5	\$ 119.6	\$ 120.7	\$ 109.7	\$ 109.3	\$ 124.3	\$ 121.1	\$ 116.3	\$ 121.3	\$ 105.8
Depreciation on Utility Plant	136.6	132.0	128.1	125.2	119.8	118.3	112.7	109.2	103.5	95.2
Water Treatment and Distribution	126.6	117.6	113.4	113.6	106.5	100.0	97.6	89.6	91.8	84.2
General Administration <sup>(2)</sup>	31.7	36.8	43.9	43.6	49.7	45.7	57.7	61.7	46.9	52.2
Raw Water <sup>(1)</sup>	53.2	44.6	40.4	37.6	64.4	43.5	41.1	33.1	31.8	31.1
Sewer Treatment Plant Operations	41.5	37.9	38.2	35.1	33.3	32.5	31.7	28.7	30.4	28.7
Financial and Risk Management	25.6	23.1	17.5	21.6	19.6	19.3	17.0	17.2	18.2	18.1
Customer Accounting and Collecting	19.9	20.3	19.4	19.9	19.1	19.9	20.3	18.5	18.9	17.5
Facilities Management	6.0	5.0	5.5	5.2	6.3	6.9	9.0	8.8	11.8	12.2
Sewer Lines and Pumping	16.4	15.9	13.4	14.6	13.4	13.9	13.7	12.5	12.5	13.4
Recreation Areas, Net Amortization <sup>(2)</sup>	6.7	6.1	5.7	5.7	5.6	5.3	5.2	5.3	5.5	5.7
	13.3	14.4	16.2							
<b>Total:</b>	<b>\$ 591.0</b>	<b>\$ 573.3</b>	<b>\$ 562.4</b>	<b>\$ 531.8</b>	<b>\$ 547.0</b>	<b>\$ 529.6</b>	<b>\$ 527.1</b>	<b>\$ 500.9</b>	<b>\$ 492.6</b>	<b>\$ 464.1</b>

\* Restated to meet current formatting.

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

<sup>(2)</sup> Starting FY2019, the Amortization expense is reported separately from General Administration expense. FY2018 General Administration and Amortization expenses have been recategorized to serve as comparison purpose in the FY2019 Financial Statements.

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 FY20 are shown in the table below.

<b>FY20 Future Water Supply Fund</b>	
Balance 7/1/19	\$19,948,857
Additions	16,211,451
Costs Applied	-16,211,451
Interest Earnings	342,770
Balance 6/30/20	20,291,627

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.

<b>FY20 System Capacity Buy-In Component</b>	
Balance 7/1/19	\$0
Additions	37,095,843
Costs Applied	-37,095,843
Interest Earnings	0
Balance 6/30/20	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 FY20 are shown in the table below.

<b>FY20 Wastewater Equipment Replacement Fund</b>	
Balance 7/1/19	\$17,589,984
Additions	5,697,281
Costs Applied	(2,984,582)
Interest Earnings	319,937
Balance 6/30/20	26,591,784

**Recorded Spending By Fund (Fiscal Year 2020)**  
**(in Thousands)**

Debt Service Expenditure/Project	FY20 Expenditures	FY20 Expenditures Funded by Capacity Fees
<b><u>Future Water Supply Fund</u></b>		
Debt Service on Existing FWS projects	\$40,178	\$16,211
<b><u>System Capacity Buy-In Component</u></b>		
Debt Service on Existing Water System Infrastructure	153,848	37,096
<b><u>Wastewater Equipment Replacement Fund</u></b>		
Routine Capital Equipment Replacement (100% of Costs)	(2,985)	(2,985)

**Projected Spending By Fund (Fiscal Year 2021)**

Project	Projected FY21 Expenditures (\$thousands)	FY21 Projected Expenditures Funded by Capacity Fees (\$thousands)
<b><u>Future Water Supply Fund</u></b>		
Debt Service on Existing FWS projects	\$40,178	\$14,800
<b><u>System Capacity Buy-In Component</u></b>		
Debt Service on Existing Water System Infrastructure	153,848	25,200
<b><u>Wastewater Equipment Replacement Fund</u></b>		
Routine Capital Equipment Replacement (100% of Costs)	4,000	4,000



General Information and Purpose

Water System

Wastewater System

Trustee Contacts by Issue

Contacts at East Bay Municipal Utility District

EBMUD Website

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

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**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) 287-0310

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

- **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, 2020.

**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, 2020</i>
<b>Water System Revenue Bonds:</b>				
Revenue Refunding Bonds, Series 2008A <sup>(1)</sup>	03/20/08	06/01/38	\$ 322,525,000	\$ 105,250,000
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	133,580,000
Revenue Refunding Bonds, Series 2013A	03/05/13	06/01/21	48,670,000	7,585,000
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	208,265,000
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	309,665,000	297,130,000
Revenue Bonds, Series 2019A (Green Bonds)	06/27/19	06/01/49	<u>161,820,000</u>	<u>159,550,000</u>
Total Water System Revenue Bonds			\$3,038,860,000	\$2,396,190,000
<b>Parity Debt:</b>				
Safe Drinking Water State Revolving Fund Loan (Upper San Leandro Reservoir)	01/01/03	01/01/24	2,188,000 <sup>(3)</sup>	464,000
State Water Resources Control Board Loan (East Bayshore Recycled Water Project)	05/22/08	04/01/28	20,100,000 <sup>(3)</sup>	9,075,000
State Water Resources Control Board Loan (South Reservoir Replacement)	12/14/17 <sup>(2)</sup>	07/01/48	13,998,165 <sup>(3)</sup>	13,716,000
State Water Resources Control Board Loan (MacArthur Davenport Pipeline Replacement Project)	04/18/18 <sup>(2)</sup>	07/01/49	<u>12,044,901<sup>(3)</sup></u>	<u>11,813,000</u>
Total Parity State Loans			\$ 48,331,066	\$ 35,068,000
<b>Subordinate Debt:</b>				
Commercial Paper Notes (Water Series)	Various	Various	<u>335,800,000<sup>(4)</sup></u>	<u>335,800,000</u>
<b>Total Debt</b>			<u>\$3,422,991,066</u>	<u>\$2,767,058,000</u>

<sup>(1)</sup> 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, 2022) and U.S. Bank National Association (Series 2008A-2 and Series 2008A-3 Bonds, expiring November 24, 2021). The District has entered into interest rate swap agreements that provide a hedge for the Series 2008A Bonds.

<sup>(2)</sup> Date of State Loan contract execution.

<sup>(3)</sup> Full amount disbursed to the District.

<sup>(4)</sup> 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, 2020.

**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, 2020</i>
<u>Wastewater System Revenue Bonds:</u>				
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	56,835,000
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	1,975,000
Revenue/Refunding Bonds, Series 2017A	06/14/17	06/01/45	<u>69,420,000</u>	<u>61,665,000</u>
Total Wastewater System Revenue Bonds			\$392,735,000	\$358,845,000
<u>Subordinate Debt:</u>				
Commercial Paper Notes (Wastewater Series)	Various	Various	<u>10,000,000<sup>(1)</sup></u>	<u>10,000,000</u>
<b>Total Debt</b>			<u>\$402,735,000</u>	<u>\$368,845,000</u>

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

### Commercial Paper Programs

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 ("Extendable Municipal Commercial Paper Notes (Water Series)") or the Wastewater System ("Extendable Municipal Commercial Paper Notes (Wastewater Series)") 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, 2020, \$10,000,000 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 \$10,000,000 of Extendable Municipal Commercial Paper Notes (Wastewater Series), with an average weighted remaining life to maturity of 36 days.

The District has also 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 principal repayment for commercial paper notes issued pursuant to its traditional commercial paper program. As of June 30, 2020, \$335,800,000 principal amount of commercial paper notes was outstanding under the District's traditional commercial paper program, consisting of \$335,800,000 of Commercial Paper Notes (Water Series) and \$0 of Commercial Paper Notes (Wastewater Series), with an average weighted remaining life to maturity of 28 days. As of June 30, 2020, there were no borrowings under the liquidity support facilities for the District's traditional commercial paper program.



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 Utility District Act (the “MUD 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, 2020.

### **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 MUD Act and the District’s Investment Policy. Investments shall be in securities with a range of maturities expected to provide adequate security and liquidity to pay demands when due while providing a high rate of return on investments. Criteria for selecting investments are to:

- adhere to the prudent investor standard; and
- conform with the Government 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 District 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. *Diversification* – 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 District's Investment Policy.

1. US Treasury Obligations
2. US Government Agencies Obligations
3. State of California's Local Agency Investment Fund (LAIF)
4. California Asset Management Program (CAMP), a Local Government Investment Pool (LGIP)
5. Money Market Mutual Funds
6. Certificates of Time Deposit
7. Negotiable Certificates of Deposit
8. Commercial Paper
9. Medium Term Corporate Notes
10. Repurchase Agreements, if collateralized
11. Municipal Obligations, limited to California issuers, including the State of California

Pursuant to the District's Investment Policy:

- All securities purchased from dealers and brokers are held in safekeeping by the District's custodial bank. All transactions require delivery of the security prior to payment for the security (delivery vs. payment).
- Collateral, when required, would only be in US Treasury or US Government Agencies Obligations, with a Master Repurchase Agreement on file with the District.
- Trade confirmations are reviewed for conformity to the original transaction by an individual other than the one who originated the transaction.
- Reporting includes: on a monthly basis, a report listing transactions is submitted to the General Manager and the District's Board of Directors; and on a quarterly basis, an investment report is submitted to the General Manager and the Finance/Administration Committee of the District's Board of Directors. This quarterly report includes the type of investment, issuer, date of maturity, par and dollar amount invested for all securities, investments and moneys held by the District, and provides an investment summary by security type, percent of the portfolio, investment yield and the remaining period of investment to maturity.

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 revenue bonds.

**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 1.45 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 over 776,000 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 2016 to 2020.

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

	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>
Oakland	425,115	428,165	429,145	430,753	433,697
Berkeley	120,059	121,050	121,752	122,358	122,580
Richmond	109,449	110,103	110,585	110,793	111,217
San Leandro	88,485	88,594	88,276	88,296	87,930
Alameda	80,460	81,073	81,275	81,618	81,312
Walnut Creek	<u>69,549</u>	<u>70,031</u>	<u>70,389</u>	<u>70,958</u>	<u>70,860</u>
Total Six Cities	893,117	899,016	901,422	904,776	907,596
Alameda County	1,632,599	1,646,711	1,655,306	1,664,783	1,670,834
Contra Costa County	1,128,405	1,138,861	1,145,141	1,150,621	1,153,561
California	39,131,307	39,398,702	39,586,646	39,695,376	39,782,870

<sup>(1)</sup> As of January 1 of each year.

Source: State of California, Department of Finance, *E-4 Population Estimates for Cities, Counties and the State, 2011-2020, with 2010 Census Benchmark*. Sacramento, California, May 2020.

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 2016 to 2020. 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<sup>(1)</sup>**

	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>
Oakland	425,115	428,165	429,145	430,753	433,697
Berkeley	120,059	121,050	121,752	122,358	122,580
Alameda	80,460	81,073	81,275	81,618	81,312
El Cerrito	24,559	24,608	24,675	24,852	24,953
Albany	18,565	18,587	18,867	18,961	18,937
Piedmont	11,398	11,442	11,434	11,468	11,453
Emeryville	<u>11,895</u>	<u>12,045</u>	<u>12,000</u>	<u>12,041</u>	<u>12,298</u>
Total Seven Cities	692,051	696,970	699,148	702,051	705,230
Alameda County	1,632,599	1,646,711	1,655,306	1,664,783	1,670,834
Contra Costa County	1,128,405	1,138,861	1,145,141	1,150,621	1,153,561
California	39,131,307	39,398,702	39,586,646	39,695,376	39,782,870

<sup>(1)</sup> 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—2011-2020, with 2010 Census Benchmark*. Sacramento, California, May 2020.

**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**

<b>Fiscal Year</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>
<b>ASSESSED VALUATION FOR TAXATION PURPOSES<sup>(1)(2)</sup></b>					
Alameda County	\$112,041,019,464	\$119,325,397,941	\$127,263,417,316	\$135,672,349,929	\$145,333,769,595
Contra Costa County	<u>96,472,922,101</u>	<u>102,560,510,616</u>	<u>108,186,306,742</u>	<u>114,735,931,344</u>	<u>120,648,243,577</u>
TOTAL	\$208,513,941,565	\$221,885,908,557	\$235,449,724,058	\$250,408,281,273	\$265,982,013,172
<b>COUNTY 1% ALLOCATED PROPERTY TAX REVENUES TO DISTRICT<sup>(3)</sup></b>					
Alameda County	\$16,136,648	\$17,152,223	\$19,017,612	\$20,043,690	\$21,733,964
Contra Costa County	<u>13,732,785</u>	<u>14,818,866</u>	<u>15,687,955</u>	<u>15,664,950</u>	<u>18,603,287</u>
TOTAL	\$29,869,433	\$31,971,089	\$34,705,567	\$35,708,640	\$40,337,251
<b>DELINQUENCIES<sup>(4)</sup></b>					
Delinquent June 30					
Amount	\$239,980	\$236,737	\$213,655	\$211,662	\$277,522
Percent	0.80%	0.74%	0.62%	0.59%	0.69%

<sup>(1)</sup> Historical Assessed Valuation for Tax Purposes numbers differ from those previously reported for certain years to realign the fiscal year of the County figures with the applicable Fiscal Year in the table. In some previous reports, the amounts were offset by one year. In addition, minor differences in assessed valuation numbers from amounts previously reported occur from time to time due to a change in source data used.

<sup>(2)</sup> 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.

<sup>(3)</sup> 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.

<sup>(4)</sup> 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	2016	2017	2018	2019	2020
<b>ASSESSED VALUATION FOR TAXATION PURPOSES<sup>(1)(2)</sup></b>					
Alameda County	\$85,882,609,820	\$91,776,237,397	\$ 98,101,088,469	\$104,791,049,008	\$112,571,652,641
Contra Costa County	<u>5,290,848,967</u>	<u>5,674,453,030</u>	<u>6,027,338,924</u>	<u>6,396,906,019</u>	<u>6,769,204,055</u>
TOTAL	\$91,173,458,787	\$97,450,690,427	\$104,128,427,393	\$111,187,955,027	\$119,340,856,696
<b>COUNTY 1% ALLOCATED PROPERTY TAX REVENUES TO DISTRICT<sup>(3)</sup></b>					
Alameda County	\$4,286,754	\$4,529,398	\$5,024,216	\$5,298,234	\$5,780,147
Contra Costa County	<u>353,271</u>	<u>385,582</u>	<u>404,633</u>	<u>470,738</u>	<u>505,790</u>
TOTAL	\$4,640,025	\$4,914,980	\$5,428,849	\$5,768,972	\$6,285,937
<b>TOTAL PROPERTY TAX/AD VALOREM TAX REVENUES<sup>(4)</sup></b>					
Alameda County	\$7,400,912	\$7,232,843	\$6,300,863	\$5,385,714	\$5,782,135
Contra Costa County	<u>537,689</u>	<u>547,352</u>	<u>473,110</u>	<u>470,322</u>	<u>506,767</u>
TOTAL	\$7,938,601	\$7,780,195	\$6,773,973	\$5,856,036	\$6,288,902
<b>DELINQUENCIES<sup>(5)</sup></b>					
Delinquent June 30					
Amount	\$112,750	\$111,290	\$79,688	\$59,959	\$74,239
Percent	1.42%	1.43%	1.18%	1.02%	1.18%

<sup>(1)</sup> Historical Assessed Valuation for Tax Purposes numbers differ from those previously reported to realign the fiscal year of the County figures with the applicable Fiscal Year in the table. In previous reports, the amounts were offset by one year. In addition, minor differences in assessed valuation numbers from amounts previously reported occur from time to time due to a change in source data used.

<sup>(2)</sup> 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.

<sup>(3)</sup> 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.

<sup>(4)</sup> Includes *ad valorem* tax levy for debt service on District general obligation bonds which were fully retired in April 2018.

<sup>(5)</sup> 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. The District monitors precipitation and reservoir levels daily.

The main source of the District's water supply is the 627-square mile Mokelumne River watershed. Following four consecutive years of drought from 2012 through 2015, in Water Year 2016, there was near normal runoff and slightly above average precipitation in the District's Mokelumne watershed. A Water Year begins on October 1 and ends on September 30 of the following year. Water Year 2017 was the wettest runoff year on record in the Mokelumne watershed. Water Year 2018 was a below average year for precipitation and runoff in the Mokelumne watershed, Water Year 2019 was well above average, and Water Year 2020 was well below average. The District began Water Year 2020, which commenced on October 1, 2019 and ended on September 30, 2020, with 655,000 acre-feet in total system storage (*i.e.*, Pardee, Camanche and East Bay terminal reservoirs), representing 85% of capacity or 115% of average. As of June 30, 2020, the District had 613,830 acre-feet of water stored in all of its reservoirs combined. As of such date, the District's reservoirs were approximately 80% of capacity, or approximately 93% of average (based on 10-year average from 2001-2011). Season-to-date precipitation in the Mokelumne basin as of June 30, 2020 was 33.7 inches, or approximately 70% of average (based on 60-year average from 1952-2012).

The District began Water Year 2021, which commenced on October 1, 2020, with a provisional estimate of 575,820 acre-feet in total system storage (Pardee, Camanche and East Bay terminal reservoirs), representing 75% of capacity or 101% 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 2011 is shown in Table 7 below. Note that this information was re-labeled as “production” rather than “consumption” beginning 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<sup>(1)</sup>**

<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>
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
2018	185,790	80,930	60,540	166
2019	183,142	79,776	59,677	164
2020	187,966	81,878	61,249	167

<sup>(1)</sup> Water production includes water used in the treatment process and for fighting fires, as well as water lost through leaks in the transmission system, evaporation and other miscellaneous causes. These losses represent approximately 10% 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, 2020. 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, 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, 2019  
(MILLIONS)**

	<i>Fiscal Year Ending June 30</i>				
	<i>2016</i>	<i>2017</i>	<i>2018</i>	<i>2019</i>	<i>2020</i>
Operating Revenue and Other Income:					
Water sales	\$421.2	\$420.3	\$480.7	\$520.3	\$567.4
Power sales	3.5	7.8	6.4	10.7	6.3
Interest <sup>(1)</sup>	2.2	3.3	7.9	10.5	12.3
Taxes	29.9	32.0	34.7	35.7	40.3
Other <sup>(2)</sup>	<u>14.0</u>	<u>14.9</u>	<u>14.8</u>	<u>14.3</u>	<u>14.4</u>
Total Operating Revenue and Other Income <sup>(6)</sup>	<u>\$470.8</u>	<u>\$478.3</u>	<u>\$544.6</u>	<u>\$591.5</u>	<u>\$640.7</u>
Capital Contributions:					
System Capacity Charge <sup>(3)</sup>	\$ 39.3	\$ 51.5	\$ 69.3	\$ 73.5	\$ 53.3
Earned contributions on construction <sup>(4)</sup>	17.0	14.4	15.5	23.7	17.8
Grants and reimbursements	<u>4.4</u>	<u>10.1</u>	<u>2.8</u>	<u>0.9</u>	<u>0.8</u>
Total Contributions <sup>(5)</sup>	<u>\$ 60.8</u>	<u>\$ 75.9</u>	<u>\$ 87.6</u>	<u>\$ 98.1</u>	<u>\$ 71.9</u>
 Total <sup>(5)</sup>	 <u>\$531.5</u>	 <u>\$554.2</u>	 <u>\$632.2</u>	 <u>\$689.7</u>	 <u>\$712.6</u>

<sup>(1)</sup> Includes interest earnings on Water System Fund, including earnings on proceeds of the District's Water System Revenue Bonds.

<sup>(2)</sup> 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.

<sup>(3)</sup> 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

<sup>(4)</sup> Includes contributions for facility relocations, main extensions and service installations

<sup>(5)</sup> 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, 2019**

<i>Type of Customer</i>	<i>Sales Revenues<sup>(1)</sup></i>	<i>Percent of Revenues</i>	<i>Consumption (MGD)</i>	<i>Percent of Consumption</i>	<i>Number of Connections<sup>(2)</sup></i>	<i>Percent of Connections</i>
Residential	\$320,888,512	56.6%	77.2	52.3%	349,964	89.1%
Commercial	177,565,576	31.3%	47.5	32.2%	37,826	9.6%
Industrial	43,556,125	7.7%	16.0	10.8%	1,902	0.5%
Public Authority	25,383,745	4.5%	7.0	4.8%	2,979	0.8%
Total <sup>(3)</sup>	<u>\$567,393,958</u>	<u>100.0%</u>	<u>147.8</u>	<u>100.0%</u>	<u>392,671</u>	<u>100.0%</u>

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

<sup>(2)</sup> Connections as of June 30, 2020.

<sup>(3)</sup> Totals may not add due to rounding.

Source: The District.

### Rates and Charges

From Fiscal Year 2016 through Fiscal Year 2020, residential rates for water service have increased by an average of approximately 7.80% 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 7.95%. The District's most recent increases in water service rates and charges included the adoption on June 11, 2019 of overall average rate increases (including meter, volume, elevation charges, non-potable (recycled) water and private fire service) of 6.50% for Fiscal Year 2020 and 6.25% for Fiscal Year 2021. Table 10 sets forth the average residential and overall average rate increases enacted by the District for the five Fiscal Years 2016 through 2020, as well as the adopted average residential and overall average rate increase which took effect on July 1, 2020 for Fiscal Year 2021:

**TABLE 10: WATER RATE INCREASES**

<i>Fiscal Year</i>	<i>Average Residential Rate Increase</i>	<i>Overall Average Rate Increase<sup>(1)</sup></i>
2016 <sup>(2)</sup>	7.35 <sup>(2)</sup> %	8.00 <sup>(2)</sup> %
2017 <sup>(3)</sup>	7.02 <sup>(3)</sup>	7.00 <sup>(3)</sup>
2018	9.21	9.25
2019	8.99	9.00
2020	6.45	6.50
2021 <sup>(4)</sup>	6.24 <sup>(4)</sup>	6.25 <sup>(4)</sup>

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

<sup>(2)</sup> 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 were 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.

<sup>(3)</sup> Excludes drought surcharge.

<sup>(4)</sup> The adopted rate increase for Fiscal Year 2021 is effective on bills issued on and after July 1, 2020.

Source: The District.

Table 11 shows the rate schedule effective July 1, 2020 for Fiscal Year 2021. 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 \$63.47, which represents an average increase of 6.24% for residential customers from Fiscal Year 2020 rates.

**TABLE 11: WATER SYSTEM RATES AND CHARGES<sup>(1)</sup>  
EFFECTIVE JULY 1, 2020**

<b>Service Charge</b>	
<i>Meter Size</i>	<i>Per Month</i>
5/8-inch and ¾-inch	\$ 27.87
1-inch	42.10
1 ½-inch	77.68
2-inch	120.35
Over 2-inch	Various
<b>Charge for Water Delivered</b>	
<i>Rate Class</i>	<i>Per Hundred Cubic Feet (Ccf)</i>
Basic Rate – Single Family <sup>(1)</sup>	\$4.25
Basic Rate – Multi Family	6.01
Basic Rate – Other	5.98
Elevation Band Surcharges <sup>(2)</sup> –	
Band 2: Pressure Zones 2 through 5	0.86
Band 3: Pressure Zones 6 and higher	1.79

<sup>(1)</sup> Applies to first 172 gallons per day (7 Ccf) for single family residential customers. Additional consumption by residential customers is billed at \$5.85 per Ccf for consumption between 173 and 393 gallons per day (16 Ccf), and \$7.72 for all water used in excess of 393 gallons per day. For a household using 8 Ccf in Fiscal Year 2020, the water usage charge for the first 7 Ccf at the first tier rate of \$4.25 per Ccf would be \$29.75 and the water usage charge for the additional 1 Ccf at the second tier rate of \$5.85 per Ccf would be \$5.85, for a total charge for water delivered of \$35.60; the monthly service charge would be \$27.87, resulting in a total monthly bill of \$63.47.

<sup>(2)</sup> 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 enacted rates and charges for Fiscal Years 2018 and 2019 included 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 District's adopted rates and charges for Fiscal Years 2020 and 2021 include maintenance of the existing system of drought surcharges. 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%

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<sup>(1)</sup>  
FISCAL YEARS 2016 THROUGH 2020**

	2016	2017	2018	2019	2020
<b>WATER REVENUES<sup>(2)</sup>:</b>					
Water Sales <sup>(3)</sup>	\$421,239,645	\$420,293,252	\$480,745,249	\$520,344,215	\$567,393,958
Power Revenue	3,524,767	7,806,642	6,435,118	10,730,731	6,307,502
Interest	2,196,001	3,345,710	7,941,217	10,460,203	12,254,262
SCC Revenue <sup>(4)</sup>	39,323,341	51,463,496	69,272,188	73,496,282	53,307,284
Seismic Rate Surcharge <sup>(5)</sup>	38,793	9,270	392	(400)	42
Other Revenues <sup>(6)</sup>	<u>13,972,663</u>	<u>14,852,674</u>	<u>14,765,959</u>	<u>14,264,876</u>	<u>14,361,981</u>
<b>TOTAL WATER REVENUES</b>	<b><u>\$480,295,210</u></b>	<b><u>\$497,771,044</u></b>	<b><u>\$579,160,123</u></b>	<b><u>\$629,295,907</u></b>	<b><u>\$653,625,029</u></b>
<b>RATE STABILIZATION FUND TRANSFERS:</b>					
Deposits to the Rate Stabilization Fund	\$ 0	\$ 0	\$ 0	\$ 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>
<b>WATER REVENUES AFTER RATE STABILIZATION TRANSFER</b>	<b><u>\$480,295,210</u></b>	<b><u>\$497,771,044</u></b>	<b><u>\$579,160,123</u></b>	<b><u>\$629,295,907</u></b>	<b><u>\$653,625,029</u></b>
<b>WATER OPERATION &amp; MAINTENANCE COSTS:</b>					
Operating Expenses	\$238,624,710	\$219,844,980	\$232,959,911	\$246,619,873	\$264,262,808
(Less Tax Receipts) <sup>(7)</sup>	<u>(29,869,433)</u>	<u>(31,971,089)</u>	<u>(34,705,567)</u>	<u>(35,708,641)</u>	<u>(40,337,251)</u>
<b>TOTAL WATER OPERATION &amp; MAINTENANCE COSTS</b>	<b><u>\$208,755,277</u></b>	<b><u>\$187,873,891</u></b>	<b><u>\$198,254,344</u></b>	<b><u>\$210,911,232</u></b>	<b><u>\$223,925,557</u></b>
<b>NET WATER REVENUES</b>	<b>\$271,539,933</b>	<b>\$309,897,153</b>	<b>\$380,905,779</b>	<b>\$418,384,675</b>	<b>\$429,699,472</b>
<b>PARITY DEBT SERVICE:</b>					
Water System Revenue Bonds <sup>(8)</sup>	\$162,809,748	\$164,213,889	\$175,759,278	\$176,560,990	\$186,586,103
Parity State Loans	<u>1,400,108</u>	<u>1,400,108</u>	<u>1,401,897</u>	<u>1,496,594</u>	<u>2,017,889</u>
<b>TOTAL PARITY DEBT SERVICE</b>	<b>\$164,209,856</b>	<b>\$165,613,997</b>	<b>\$177,161,175</b>	<b>\$178,057,584</b>	<b>\$188,603,992</b>
<b>PARITY DEBT SERVICE COVERAGE</b>	<b>1.65</b>	<b>1.87</b>	<b>2.15</b>	<b>2.35</b>	<b>2.28</b>
<b>SUBORDINATE WATER SYSTEM DEBT SERVICE<sup>(9)</sup></b>	<b>\$ 340,580</b>	<b>\$ 3,627,676</b>	<b>\$ 5,011,892</b>	<b>\$ 6,824,219</b>	<b>\$ 5,421,978</b>
<b>TOTAL PARITY AND SUBORDINATE DEBT SERVICE</b>	<b>\$164,550,436</b>	<b>\$169,241,673</b>	<b>\$182,173,067</b>	<b>\$184,881,803</b>	<b>\$194,025,970</b>
<b>TOTAL PARITY AND SUBORDINATE DEBT SERVICE COVERAGE</b>	<b>1.65</b>	<b>1.83</b>	<b>2.09</b>	<b>2.26</b>	<b>2.21</b>

<sup>(1)</sup> Calculated in accordance with the Indenture as footnoted.

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

<sup>(3)</sup> Reflects average daily billed consumption of 128.0 MGD in Fiscal Year 2016, 132.7 MGD in Fiscal Year 2017, 144.5 MGD in Fiscal Year 2018, 142.7 MGD in Fiscal Year 2019 and 147.8 MGD in Fiscal Year 2020.

<sup>(4)</sup> System Capacity Charge ("SCC") Revenues presented in the table above include the "buy-in" portion of SCC charges and the "future water supply" portion of SCC charges when collected. SCC Revenues are treated as capital contributions and are not recognized as operating revenues for purposes of the District's audited financial statements.

<sup>(5)</sup> 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, 2017, 2018 and 2020 and a small refund was made in 2019. Collections primarily represent late payments or bill collections.

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

<sup>(7)</sup> 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.

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

<sup>(9)</sup> Includes interest only on outstanding Water System commercial paper notes.

Source: The District.

**WASTEWATERSYSTEM****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</i>	
<i>June 30</i>	<i>Flow</i>
2011	70
2012	62
2013	61
2014	56
2015	55
2016	56
2017	69
2018	54
2019	61
2020	61

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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, 2020. 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, prior to their retirement on April 1, 2018, 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, 2020  
(MILLIONS)**

	2016	2017	2018	2019	2020
<b>Operating Revenue and Other Income:</b>					
Dry Weather User Charges	\$ 66.0	\$ 70.0	\$ 74.7	\$ 78.1	\$ 79.9
Wet Weather Facilities Charges	21.9	23.1	24.3	25.1	27.1
Resource Recovery	11.6	11.9	11.8	12.2	12.1
Interest <sup>(1)</sup>	0.4	0.7	1.2	2.4	1.9
Taxes <sup>(2)</sup>	7.9	7.8	6.8	5.9	6.3
Other Revenues <sup>(3)</sup>	<u>5.2</u>	<u>5.3</u>	<u>7.0</u>	<u>4.6</u>	<u>5.3</u>
<b>Total Revenues<sup>(4)</sup></b>	<b>\$113.0</b>	<b>\$118.7</b>	<b>\$125.8</b>	<b>\$128.3</b>	<b>\$132.5</b>
<b>Capital Contributions:</b>					
Wastewater Capacity Fees	\$ 3.1	\$ 8.0	\$ 11.4	\$ 13.3	\$ 5.7
Earned contributions on construction	0.7	0.7	0.0	(0.1)	0.0
Grants	<u>0.3</u>	<u>0.2</u>	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>
<b>Total Contributions</b>	<b>\$ 4.1</b>	<b>\$ 8.9</b>	<b>\$ 11.4</b>	<b>\$ 13.2</b>	<b>\$ 5.7</b>
<b>TOTAL</b>	<b><u>\$117.1</u></b>	<b><u>\$127.6</u></b>	<b><u>\$137.2</u></b>	<b><u>\$141.5</u></b>	<b><u>\$138.2</u></b>

<sup>(1)</sup> Includes interest earnings on Wastewater System Fund, including earnings on proceeds of the District's Wastewater System Revenue Bonds.

<sup>(2)</sup> Includes the District's share of 1% countywide property tax and, prior to their retirement on April 1, 2018, the *ad valorem* tax levied for repayment of Special District No. 1's general obligation bonds.

<sup>(3)</sup> 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.

<sup>(4)</sup> Totals may not add due to rounding.

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, 2020.

**TABLE 15: WASTEWATER DRY WEATHER USER CHARGE REVENUES  
AND NUMBER OF CONNECTIONS BY USER TYPE  
FISCAL YEAR ENDED JUNE 30, 2020**

Type of Customer	User Charge Revenues <sup>(1)</sup>	Percent of Revenues	Number of Connections	Percent of Accounts
Residential	\$43,481,497	54.4%	159,385	88.9%
Commercial	29,926,002	37.5%	16,579	9.2%
Industrial	2,234,061	2.8%	712	0.4%
Public	<u>4,240,126</u>	<u>5.3%</u>	<u>2,667</u>	<u>1.5%</u>
Total <sup>(2)</sup>	<b><u>\$79,881,685</u></b>	<b><u>100.0%</u></b>	<b><u>179,343</u></b>	<b><u>100.0%</u></b>

<sup>(1)</sup> 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.

<sup>(2)</sup> Totals may not add due to rounding.

Source: The District.

**Wastewater Rates and Charges**

From Fiscal Year 2016 through Fiscal Year 2020, total annual residential wastewater charges imposed by the District have increased by an average of approximately 3.34% 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 and wet weather facilities charges), for the same period was approximately 4.80%. The District's most recent increases in wastewater service rates and charges included the adoption on June 11, 2019 of system-wide rate increases of 4.00% for Fiscal Year 2020 and 4.00% for Fiscal Year 2021. Table 16 sets forth the average residential rate increases and overall average rate increases enacted by the District for the five Fiscal Years 2016 through 2020, as well as the adopted average residential and overall average rate increase which took effect on July 1, 2020 for Fiscal Year 2021.

**TABLE 16: WASTEWATER RATE INCREASES**

<i>Fiscal Year</i>	<i>Average Residential Rate Increase<sup>(1)</sup></i>	<i>Overall Average Rate Increase<sup>(2)</sup></i>
2016 <sup>(3)</sup>	(0.81)% <sup>(3)</sup>	5.00% <sup>(3)</sup>
2017	4.88	5.00
2018	4.87	5.00
2019	5.05	5.00
2020 <sup>(4)</sup>	2.70	4.00 <sup>(4)</sup>
2021 <sup>(5)</sup>	3.95 <sup>(5)</sup>	4.00 <sup>(5)</sup>

<sup>(1)</sup> Residential average rate increase includes wastewater treatment and disposal charges, wet weather facilities charges, and San Francisco Bay Pollution Prevention Fee.

<sup>(2)</sup> Overall average rate increase includes wastewater treatment and disposal charges and wet weather facilities charges for all customer classes (including residential).

<sup>(3)</sup> 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.

<sup>(4)</sup> Fiscal Year 2020 rates and charges include cost of service study adjustments that result in some rates and charges decreasing and others increasing. Overall revenue from rates is estimated to be approximately 4.00% higher than under Fiscal Year 2019 rates and charges.

<sup>(5)</sup> The adopted rate increase for Fiscal Year 2021 is effective on bills issued on and after July 1, 2020.

Source: The District.



The District's current (Fiscal Year 2021) wastewater rates are set forth in Table 17 below.

**TABLE 17: WASTEWATER SYSTEM RATES AND CHARGES  
EFFECTIVE JULY 1, 2018**

<b>Residential Charge:</b>		
Service Charge (per account)	\$ 7.30	per month
Strength Charge (per dwelling unit)	7.60	per month
Flow Charge	1.32	per 100-cubic foot unit, to a maximum of 9 units
San Francisco Bay Pollution Prevention Fee	0.20	per month per dwelling unit
<b>Non-Residential Charge:</b>		
Service Charge (per meter)	7.30	per month
Treatment Charge	1.34-18.75	per unit, depending on the nature of the business
San Francisco Bay Pollution Prevention Fee	5.48	per month
<b>Minimum Monthly Treatment Charge:</b>		
Apartment Buildings (5 or more dwelling units)	45.30	per month
All Others	7.30	per month
<b>Permit Accounts:</b>		
Flow Charge	1.317	per hundred cubic feet
COD	0.134	per pound of discharge
Suspended Solids	0.551	per pound of discharge
<b>Wet Weather Facilities Charge:</b>		
Small lot (0-5,000 sq. ft.)	115.70	per year per land parcel
Medium lot (5,001-10,000 sq. ft.)	180.74	per year per land parcel
Large lot (>10,000 sq. ft.)	413.10	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<sup>(1)</sup>**  
**FISCAL YEARS 2016 THROUGH 2020**

	2016	2017	2018	2019	2020
<b>WASTEWATER REVENUES<sup>(2)</sup></b>					
Dry Weather User Charges	\$ 65,916,031	\$ 69,999,373	\$ 74,726,870	\$ 78,108,092	\$ 79,881,685
Wet Weather Facilities Charges	21,918,034	23,104,818	24,293,238	25,112,787	27,090,108
Interest	359,743	654,595	1,217,101	2,372,907	1,851,344
Resource Recovery	11,625,497	11,904,249	11,786,366	12,214,540	12,074,141
Wastewater Capacity Fees	3,142,514	7,969,321	11,418,610	13,259,943	5,697,283
Other Revenues <sup>(3)</sup>	<u>5,168,719</u>	<u>5,253,614</u>	<u>4,477,132</u>	<u>2,125,817</u>	<u>2,760,262</u>
<b>TOTAL WASTEWATER REVENUE</b>	<b>\$108,130,538</b>	<b>\$118,885,970</b>	<b>\$127,919,317</b>	<b>\$133,194,086</b>	<b>\$129,354,823</b>
<b>RATE STABILIZATION FUND TRANSFERS</b>					
Deposits to the Rate Stabilization Fund	\$ 0	\$ 0	\$ 0	\$ 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>
<b>WASTEWATER REVENUES AFTER RATE STABILIZATION TRANSFER</b>	<b><u>\$108,130,538</u></b>	<b><u>\$118,885,970</u></b>	<b><u>\$127,919,317</u></b>	<b><u>\$133,194,086</u></b>	<b><u>\$129,354,823</u></b>
<b>WASTEWATER OPERATION &amp; MAINTENANCE COSTS</b>					
Operating Expenses	\$ 55,331,260	\$ 58,550,842	\$ 62,608,477	\$ 63,362,686	\$66,485,966
(Less Tax Receipts) <sup>(4)</sup>	<u>(4,640,025)</u>	<u>(4,914,980)</u>	<u>(5,428,849)</u>	<u>(5,768,972)</u>	<u>(6,285,937)</u>
<b>TOTAL WASTEWATER OPERATION &amp; MAINTENANCE COSTS</b>	<b><u>\$ 50,691,235</u></b>	<b><u>\$ 53,635,862</u></b>	<b><u>\$ 57,179,628</u></b>	<b><u>\$ 57,593,714</u></b>	<b><u>\$ 60,200,029</u></b>
<b>NET WASTEWATER REVENUES</b>	<b>\$ 57,439,303</b>	<b>\$ 65,250,108</b>	<b>\$ 70,739,689</b>	<b>\$ 75,600,372</b>	<b>\$ 69,154,794</b>
<b>PARITY DEBT SERVICE</b>					
Wastewater System Revenue Bonds <sup>(5)</sup>	\$ 29,068,988	\$ 29,099,228	\$ 26,695,724	\$ 26,738,995	\$ 26,733,361
Parity State Loans	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
<b>TOTAL PARITY DEBT SERVICE</b>	<b><u>\$ 29,068,988</u></b>	<b><u>\$ 29,099,228</u></b>	<b><u>\$ 26,695,724</u></b>	<b><u>\$ 26,738,995</u></b>	<b><u>\$ 26,733,361</u></b>
<b>PARITY DEBT SERVICE COVERAGE</b>	<b>1.98</b>	<b>2.24</b>	<b>2.65</b>	<b>2.83</b>	<b>2.59</b>
<b>SUBORDINATE WASTEWATER SYSTEM DEBT SERVICE<sup>(6)</sup></b>	<b>\$ 22,543</b>	<b>\$ 109,216</b>	<b>\$ 166,796</b>	<b>\$ 249,715</b>	<b>\$ 163,043</b>
<b>TOTAL PARITY AND SUBORDINATE DEBT SERVICE</b>	<b>\$ 29,091,531</b>	<b>\$ 29,208,444</b>	<b>\$ 26,862,520</b>	<b>\$ 26,988,710</b>	<b>\$ 26,896,404</b>
<b>PARITY AND SUBORDINATE DEBT SERVICE COVERAGE</b>	<b>1.97</b>	<b>2.23</b>	<b>2.63</b>	<b>2.80</b>	<b>2.57</b>

<sup>(1)</sup> Calculated in accordance with the Indenture as footnoted.

<sup>(2)</sup> Wastewater Revenues exclude grant receipts, taxes and certain reimbursements.

<sup>(3)</sup> Through Fiscal Year 2017, Other Revenues includes BABs Interest Subsidy Payments received in connection with Series 2010B Bonds which are Build America Bonds. In Fiscal Year 2018, the subsidy is not included in Other Revenues (see Note 5). Other Revenues also includes revenues received from the sale of energy to the utility grid of \$1,246,360 in Fiscal Year 2016, \$900,014 in Fiscal Year 2017, \$1,109,183 in Fiscal Year 2018, \$542,293 in Fiscal Year 2019 and \$ 914,620 in Fiscal Year 2020.

<sup>(4)</sup> 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.

<sup>(5)</sup> Net of capitalized interest. Through Fiscal Year 2017, debt service on the Series 2010B Bonds is gross of the BABs Interest Subsidy Payments received by the District. In accordance with amendments to the Indenture which became effective on June 14, 2017, commencing in Fiscal Year 2018 BABs Interest Subsidy Payments received by the District are treated as an offset to interest paid by the District on the 2010B Bonds.

Source: The District.

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**EBMUD WEBSITE**

Since September 1996, the District has made available general financial information on its web site: (<https://www.ebmud.com/about-us/investors/>). 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.