

DEPARTMENT OF WATER RESOURCES

STATE WATER RESOURCES DEVELOPMENT SYSTEM An Enterprise of the State of

Comprehensive Annual Financial Report for the fiscal years ended June 30, 2019 and 2018



STATE WATER RESOURCES DEVELOPMENT SYSTEM An Enterprise Fund of the State of California

Comprehensive Annual Financial Report for the fiscal years ended June 30, 2019 and 2018



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STATE OF CALIFORNIA

Gavin Newsom, Governor

NATURAL RESOURCES AGENCY

Wade Crowfoot, Secretary for Natural Resources

DEPARTMENT OF WATER RESOURCES

Karla Nemeth Director

Cindy Messer Chief Deputy Director

Michelle Banonis
Assistant Chief Deputy Director

Gary Lippner
Deputy Director

Kathie Kishaba Deputy Director

Ted Craddock

Deputy Director (Acting)

Kris Tjernell Deputy Director

Michael Day Deputy Director

Spencer Kenner Chief Counsel

Taryn Ravazzini Deputy Director

Division of Fiscal Services

Vinay Narjit Singh Behl, CPA Comptroller & Chief Financial Officer Chief, Division of Fiscal Services

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Karla Nemeth

Karla Nemeth was appointed Director of the California Department of Water Resources by Governor Edmund G. Brown Jr. on January 10, 2018.

DWR operates and maintains the California State Water Project, manages floodwaters, monitors dam safety, conducts habitat restoration, and provides technical assistance and funding for projects for local water needs. Karla oversees the Department and its mission to manage and protect California's water resources, working with other agencies in order to benefit the State's people and to protect, restore and enhance the natural and human environments.

Karla worked at the California Natural Resources Agency as Governor Brown's Deputy Secretary and Senior Advisor for water policy since 2014. She was the Bay Delta Conservation Plan project manager from 2009 to 2014.

Karla was the environmental and public affairs director for the Alameda County Flood Control and Water Conservation District from 2005 to 2009. She was also the community affairs manager at Jones and Stokes from 2003 to 2005.

Karla has a Master's degree in public administration from the University of Washington.



Cindy Messer CHIEF DEPUTY DIRECTOR

Cindy Messer was appointed as the Department's Chief Deputy Director in February 2017. Cindy was the Deputy Director of the Planning, Performance, and Technology Division at the Delta Stewardship Council from 2012 until her appointment with DWR. As Deputy Director, she coordinated the preparation and implementation of the Delta Plan. Prior to this position, Cindy served as the assistant executive officer for the Sacramento-San Joaquin Delta Conservancy where she provided oversight for the development of the Delta Conservancy's Interim Strategic Plan. She also worked for more than ten years in various technical and managerial roles within DWR's Division of Environmental Services.

Cindy is a graduate of the University of California, Davis, where she earned her Bachelor of Arts degree in environmental policy analysis and planning. She also obtained a Master of Science degree in conservation biology from California State University, Sacramento.



Katherine Kishaba DEPUTY DIRECTOR, BUSINESS OPERATIONS

Katherine S. Kishaba was appointed Deputy Director of Business Operations in March 2011. Her primary responsibilities include managing the Department's fiscal, information technology, procurement, human resources, facilities, and safety programs. Business Operations consists of approximately 400 employees department-wide.

Prior to assuming her current role, Katherine served as the Department's Budget Officer, beginning in 2003, and was responsible for the development and administration of DWR's multi-billion dollar budget. Previously, Katherine also oversaw all administrative activities of DWR's Bay-Delta Office and worked in the administrative sections of DWR's former Division of Land and Right of Way and Office of Water Education (now the Public Affairs Office). She participated in the implementation and upgrade of SAP, the Department's enterprise financial system, and more recently managed the design and roll-out of the Department's Enterprise Budget Planning system in 2009.

Katherine holds both a Master of Business Administration degree from the University of California, Davis' Graduate School of Management and a Bachelor of Arts degree in Social Science from the University of California, Berkeley.



Ted Craddock
ACTING DEPUTY DIRECTOR, STATE
WATER PROJECT

Ted Craddock became the Acting State Water Project Deputy Director on July 5, 2019. Mr. Craddock has been with the Department for over 24 years. Prior to becoming the Acting State Water Project Deputy Director, he served as Executive Manager of the Oroville emergency recovery effort and provided leadership for the State Water Project's dam safety and infrastructure initiatives. Prior to that appointment, Mr. Craddock held the positions of Chief of the Hydropower License Planning and Compliance Office, manager of the East Branch Extension program, and Advisor to the State Water Project Deputy Director. Mr. Craddock received a Bachelor of Science degree in Civil and Materials Engineering from the University of California, Davis and is a licensed Professional Engineer.

Vinay Narjit Singh Behl, CPA COMPTROLLER & CHIEF FINANCIAL OFFICER

Vinay Narjit Singh Behl has served as the Chief of the Division of Fiscal Services since April 2017 and as such is the Comptroller and Chief Financial Officer of the Department. He manages and directs the activities of the Budget Office, General Accounting Branch, Enterprise Accounting Branch, Financial Analysis and Risk Management Office, and the Administration/Out-of-State Travel/Master Data Office. Vinay is also responsible for the the long-term financial planning of the State Water Project and management of the outstanding debt for the Department.

Prior to joining the Department, Vinay served as Chief Financial Officer as a subsidiary of Guardian Life Insurance Corporation from 2015 through 2017; Chief Financial Officer of an operating division of the United States Department of Health & Human Services from 2010 through 2015; and Vice President of Finance for various multinational software companies from 1997 through 2010.

Vinay is a licensed CPA in California and Delaware with various certifications in Accounting, Audit and Finance. He holds a Bachelors and Masters in Finance and graduated with a Masters In Business Administration from University of California, Davis, specializing in mergers and acquisitions. Vinay is a Chartered Accountant; Certified Internal Auditor; Chartered Global Management Accountant; Certified Management Accountant; Certified Internal Auditor; Certified Fraud Examiner; Certified in Finance Qualification: Certified Government Audit Professional; Certified Government Finance Manager; Certified in International Financial Reporting Standards; Certified Information Systems Auditor; and Certified Information Technology Professional.



Spencer Kenner CHIEF COUNSEL

Spencer Kenner was appointed Chief Counsel, in February 2016, overseeing the Office of Chief Counsel. He provides legal advice to the Director and Management, and oversees approximately 40 attorneys. The Office of Chief Counsel is responsible for a broad range of issues, including water rights; water transfers; energy law; flood management; integrated water management; dam safety; personnel; and state contracting.

Spencer was Assistant Chief Counsel beginning in 2013; acting Chief Deputy Director in 2015, and Senior Staff Counsel from 2008 to 2013. He served as commission counsel at the California Water Commission, staff counsel at the Employment Training Panel, and deputy general counsel at the California State Lottery. He also served as court counsel at Yolo County Superior Court, staff attorney at Empower Yolo, deputy district attorney at Yolo County District Attorney's Office, and senior associate at Downey Band LLP.

Spencer earned a Juris Doctor degree from Brigham Young University.



Lisa Toms CHIEF, ENTERPRISE ACCOUNTING BRANCH

Lisa Toms has served as Chief of the Enterprise Accounting Branch, within the Division of Fiscal Services, since March 2014. She has over 27 years of financial experience at the Department of Water Resources and has served in many leadership roles within the Division of Fiscal Services.

She oversees the reporting of the State Water Resources Development System's financial records, including the preparation of the Comprehensive Annual Financial Report, as well as ensures adequate financing needs are met for all State Water Project funding needs, including the issuance of Commercial Paper and Central Valley Project (CVP) Water System Revenue bonds.

Her institutional knowledge of the Department and many years of State Water Project experience has allowed her to become one of the key financial representatives of the Department.

Lisa received her Bachelor's Degree in Business Administration, with a concentration in Accounting, from the California State University, Sacramento.

Behl, continued

He is also a graduate of the prestigious
Strategic Leadership program for Healthcare
Executives from Cornell University. In addition,
Vinay has held official positions as an advisory
board member on the Performance and
Accountability committee composed of eight
members selected nationwide of American
Institute of Certified Public Accountants (AICPA)
tasked with recommending performance
improvements and governance in large
organizations.

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An aerial view of the Lake Oroville Main Spillway Control Structure in Butte County, California, July, 2011.









April 28, 2020

To the Citizens of the State of California:

We are pleased to present the Comprehensive Annual Financial Report (CAFR) of the State Water Resources Development System ("the System") for the fiscal years ended June 30, 2019 and 2018, along with the Independent Auditor's Report. The CAFR has been prepared by the California Department of Water Resources (DWR) in conformance with the principles and standards for financial reporting set forth by the Governmental Accounting Standards Board (GASB). Responsibility for both the accuracy of the data and the completeness and fairness of the presentation, including all disclosures, rests with DWR management. We believe that the data, as presented, is accurate in all material respects; that its presentation fairly shows the financial position and the results of the System's operations as measured by the financial activity of its various funds; and that the included disclosures will provide the reader with an understanding of the System's financial affairs.

This CAFR was prepared using the financial reporting requirements as prescribed by GASB Statement No. 34, *Basic Financial Statements - and Management's Discussion and Analysis - for State and Local Governments* (GASB 34), as amended. This GASB Statement requires that management provide a narrative introduction, overview, and analysis to accompany the basic financial statements in the form of a Management's Discussion & Analysis (MD&A). This letter of transmittal is designed to complement the MD&A and should be read in conjunction with it. The MD&A can be found immediately following the report of the independent auditors.

The Reporting Entity and Its Services

REPORTING ENTITY

The System operates as an Enterprise fund of the State of California administered by the California Department of Water Resources (DWR)1. DWR operates within the Natural Resources Agency of the State of California, and is responsible for the planning, construction, and operation of the System. The System includes the State Water Project (SWP), the Davis-Grunsky Act Program, and the San Joaquin Drainage Implementation Program.

DWR was established in 1956 by an act of the State Legislature that combined the functions of the Water Project Authority and certain responsibilities of the Department of Public Works' former Division of Water Resources. At present, DWR employs 3,108 full-time staff throughout the State, of which approximately 2,188 are allocated to the System. The Director of DWR oversees the Department's activities, with the assistance of a Chief Deputy Director and nine Deputy Directors. The Director, Chief Deputy Director, Deputy Director for the State Water Project, and Chief Counsel are each appointed by the Governor.

DWR's operations, with respect to the SWP, are accounted for and conducted under Segments² consisting of special funds established by the California Water Code. These Segments are (a) the State Water Resources Development Bond Fund (Bond Fund), which was formed when the voters of the State of California passed the Burns-Porter Act in 1960; and (b) the Central Valley Project Construction Fund (Construction Fund) and the Central Valley Project Revenue Fund (Revenue Fund), which were enabled under California's Central Valley Project Act of 1933.

DWR's operations, with respect to the System, are separate and apart from DWR's operations that are primarily funded by State General Fund appropriations and from DWR's Power Supply Program.

SERVICES

The System encompasses dams, reservoirs, pumping plants, power plants, aqueducts, and pipelines owned³ and operated by the State of California. The System was developed in order to deliver water to areas of need, throughout the State, for domestic, industrial, and agricultural purposes, as well as to provide flood control, recreation, fish and wildlife enhancement, hydroelectric power, and other benefits. DWR is responsible for the planning, construction, and operation of the System. All 647 miles of the initially planned aqueduct system have been completed. The 444-mile main stem of the California Aqueduct runs from a point near Stockton southward to a terminus in Riverside County. The dependable annual water supply available for delivery by the existing System varies yearly depending on hydrologic conditions and regulatory mandates.

JOINT-USE FACILITIES

Portions of the System consist of facilities developed and used jointly with the Federal Central Valley Water Project (FCVP) operated by the U.S. Bureau of Reclamation (USBR). In addition, both projects have primary sources of water north of

- 1 See the accompanying MD&A for more on Enterprise Funds
- 2 See the accompanying MD&A for more on the System's Segments
- 3 Certain assets are owned jointly by the State and the United States Bureau of Reclamation. See Joint-Use Facilities

the Sacramento-San Joaquin Delta (Delta), transport water across the Delta and draw water from the southern edge of the Delta. The FCVP, like the System, provides water for irrigation in the Central Valley, urban water supply, water quality, flood control, power, recreation, and fish and wildlife enhancement. Capital costs, for the jointly developed facilities, are shared approximately 55 percent State and 45 percent Federal.

In 1986, the System and USBR entered into a Coordinated Operation Agreement (COA) under which the System and the FCVP coordinate operations, including releases from upstream reservoirs and pumping from the Delta. The COA permits increase operational efficiency of both projects, ensures that each project receives an equitable share of available surplus water and provides for sharing of responsibilities in meeting certain Delta water quality standards.

THE WATER SUPPLY CONTRACTS

DWR has entered into Water Supply Contracts with 29 local public agencies (Water Contractors), which provide for DWR to recover substantially all System costs. The Water Contractors are principally located in the San Francisco Bay Area, the Central Coast, the Central Valley, and Southern California, and their service areas encompass approximately 25 percent of the State's land area and approximately 69 percent of its population.

Payments by the Water Contractors under the Water Supply Contracts provide for the operation, maintenance, planning, and capital costs, including interest, of the SWP. The Water Contractors may request up to a maximum annual aggregate amount totaling 4,172,786 acre-feet of water from the System. This maximum does not assure delivery of that amount of water, but rather provides the basis for proportional allocation of available supplies and certain costs among the Water Contractors.

Generally, the existing Water Supply Contracts are to remain in effect with varying termination dates ranging between 2035 and 2042 (depending upon when an individual contract was first signed) or until all bonds issued to finance construction costs of SWP facilities have been repaid (currently fiscal 2036), whichever period is longer. Under its Water Supply Contract, each Water Contractor may request water deliveries from the SWP up to a maximum specified annual amount, and agrees to pay its allocated share of the costs of gathering, storing, conveying, and delivering water. Generally, DWR's costs of providing the facilities of the SWP, including interest, are payable by the Water Contractors whether or not water is delivered. If a Water Contractor defaults under their Water Supply Contract, DWR may, upon six months' notice, suspend water deliveries to that Water Contractor. During such period, the Water Contractor remains obligated to make all payments required by the Water Supply Contract. If a Water Contractor fails or is unable to raise sufficient funds, by other means, to make contract payments, the Water Contractor is required, by the contract, to levy a tax or assessment sufficient for such purpose.

DWR and the affected Water Contractors have entered into an Off-Aqueduct Power Facilities Amendment, East Branch Enlargement Amendment, Water System Revenue Bond Amendment, Coastal Branch Extension Amendment, East Branch Extension Amendment, and a South Bay Aqueduct Enlargement Amendment to the Water Supply Contracts for the purpose of financing certain Water System Projects. These Amendments established procedures to provide for the payment of construction costs financed with Revenue Bonds by establishing separate subcategories of charges to produce the revenues required to pay all of the annual financing costs, including coverage, of the Bonds allocable to

such Amendment Projects. If any Water Contractor defaults on payment under any of these Amendments, other than the Coastal Branch Extension Amendment, East Branch Extension Amendment, and the South Bay Aqueduct Enlargement Amendment, the shortfall may be collected from non-defaulting affected Water Contractors, subject to certain limitations.

In December 1994, representatives of DWR and certain Water Contractors adopted a set of principles pursuant to which additional amendments to the Water Supply Contracts have since been negotiated. This amendment is known as the "Monterey Amendment." The Monterey Amendment includes provisions relating to the allocation of water, the transfer of the land and related assets of the Kern Fan Element, the operation of certain SWP reservoirs, transfers of the annual Table A amounts, other water transfers, the creation of and limitations on a Department reserve for operation, maintenance and replacement costs, and the description of facilities that may be financed with revenue bonds. In addition, the Monterey Amendment provides for the reduction of annual Water Supply Contract charges.

Economic Overview

A MACROECONOMIC VIEW

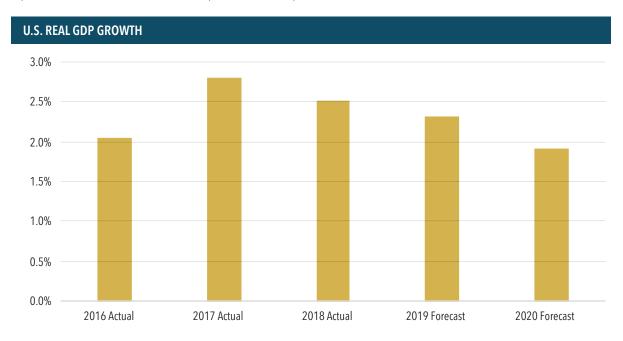
Under normal circumstances, the Department's day-to-day operations are not materially impacted by fluctuations in global or national economic conditions. Generally, macroeconomic trends can affect market interest rates and energy costs, which in turn can impact investment income earned on financial assets, borrowing costs, and water transportation costs. Significant changes in economic conditions also can affect the availability and cost of bank credit products and other sources of capital relied on by the Department from time to time.

While financial market conditions were generally favorable for the Department during the fiscal year ended June 30, 2019, at the time of the publication of this CAFR, world, national and regional impacts from the COVID-19 pandemic have dramatically altered the operating and financial landscape for the Department and the businesses and residents of California. The following economic overview primarily focuses on various economic metrices during the period covered by the CAFR (fiscal year ended June 30, 2019) but also includes commentary regarding the initial impacts that have occurred to the financial markets as a result of "shelter in place" orders and their impact on businesses and the residents of California. These adverse events that have occurred subsequent to the period covered by the CAFR continue at the time of this publication and their duration and full impact is unknown.

During the fiscal year ended June 30, 2019, U.S. economic growth slowed in the second quarter of calendar 2019, with real GDP growing by 2.0%, compared to 3.1% in the first quarter.⁴ Gradual monetary policy normalization brought the Fed Funds rate back up to 2.2-2.50% target level in December 2018, the highest levels since 2008. Higher tariffs and uncertainty about future policies are, however, likely to moderate investment growth, and growth may continue to decline going forward, with current forecasts calling for U.S. Real GDP growth of about 2.3% in 2019 and 1.9% in 2020.⁵ As of June 2019, the forecasted probability of a recession in the next 12 months was 13.6%.⁶

- 4 US Bureau of Economic Analysis
- 5 Federal Reserve Bank of Chicago
- 6 Federal Reserve Bank of New York

Estimates of the impact of the COVID-19 pandemic on U.S. real GDP vary widely but indicate that 2020 real GDP may be reduced by roughly 5% for each month of a partial economic shutdown. For example, a two-month shutdown would equal a 10% decline in real GDP. The impact has been to push the U.S. and California economies into recession.

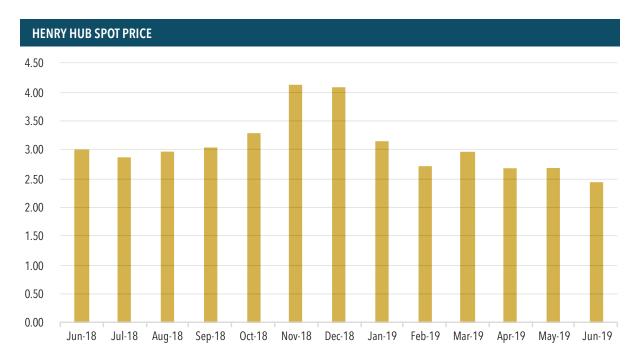


In energy markets, the Henry Hub natural gas spot price averaged \$3.05 per million British thermal units (MMBtu) during fiscal year 2019. It is forecast to average \$2.50 per MMBtu in the second half of calendar year 2019, and \$2.77 in 2020 as supply growth begins to moderate.8

⁷ Mercatus Center, George Mason University

⁸ US Energy Information Administration

As of April 20, 2020, the Henry Hub natural gas spot price was \$1.96 as industrial demand for natural gas has declined as a result of COVID-19.



CALIFORNIA ECONOMY

According to the UCLA Anderson School of Management June 2019 Outlook, the California economy expanded in the first half of calendar year 2019. In June 2019, the unemployment rate had risen one-tenth of one percent for the quarter to 4.3%, compared with 2.4% in June 2018. The June 2019 California unemployment rate was 0.6% higher than the national unemployment rate of 3.7%. The UCLA Anderson forecast anticipates that California's average unemployment rate will be at 4.4% by 2 UCLA Anderson projects total employment growth for 2020 of 0.8%, with payrolls growing at the same rate. In the first quarter of 2019, California's personal income grew 1.50%, versus growth in U.S. personal income of 1.51%. UCLA Anderson also forecasts real California personal income growth to be 2.9% and 1.9% percent in calendar years 2019 and 2020, respectively. In fiscal year 2019, California's all urban consumer annualized price inflation was 2.84%, compared with 3.9% for fiscal year 2018. California's median home price hit an all-time high in May 2019 of \$611,190, up 1.7% from May 2018.

Since the beginning of COVID-19 stay-at-home orders in California in mid-March 2020, 2,824,000 Californians have filed unemployment claims. This equals 14.5% of the state labor force. 13 Nationally, new home listings are down 30%

⁹ UCLA Anderson School of Management Forecasts

¹⁰ Federal Reserve Bank of St. Louis

¹¹ State of California Department of Industrial Relations

¹² California Association of Realtors

¹³ U.S. Bureau of Labor Statistics

compared to the same period in 2019. It is too soon to measure the impact of the COVID-19 recession on California home sales or median home price.

The State reported that Preliminary General Fund agency cash for June 2019 exceeded the 2019-20 Budget Act forecast of \$143.804 billion by about \$1.041 billion and fiscal year 2018-19 revenues were \$1.041 billion higher than the forecast of \$143.804 billion.¹⁴

Through March 31, 2020, the State Controller's Office reported that revenues for the fiscal year were \$2.1 billion higher than forecast. However, no financial reports are yet available that reflect the impact of the delay of state income tax and capital gains tax receipts until July 15, 2020, the rise in unemployment, the increase in the cost of other social services and the cost of combatting COVID-19. The State Controller has indicated that the State and local resources are being quickly drained.¹⁵

INTEREST RATES

Long-term tax-exempt interest rates declined during fiscal year 2019. As of June 30, 2019, the 20-year "AAA" tax-exempt borrowing rate was approximately 2.12%, versus 2.82% as of June 30, 2018. Variable rate tax-exempt rates at fiscal year-end were higher than they were in the summer of 2018 as the Federal Reserve continued to tighten monetary conditions. As of June 30, 2019, variable rate tax-exempt rates were 1.90%, versus 1.51% a year earlier.¹⁶

As a result of the extreme volatility in the financial markets caused by the impacts of COVID-19, both short and long-term tax-exempt interest rates rose dramatically in the first quarter of calendar year 2020. With the help of Federal programs designed to provide liquidity to the financial markets and financial institutions, both short and long-term interest rates have returned to levels close to those that existed before the crisis. As stay-at-home orders are still in effect throughout the state and country, it is not known whether the financial markets in which the Department operates and the rates at which it borrows will be maintained at their current relatively attractive levels.

In the fiscal year ended June 30, 2019, the Department sold two long-term bond issues. In October of 2018, the Department sold its tax-exempt \$215,295,000 Central Valley Project Water System Revenue Bonds, Series AZ with a final maturity of 2035, a weighted average maturity of 9.0 years and an average borrowing cost of 2.90%. In April 2019, the Department sold \$299,590,000 its tax-exempt Central Valley Project Water System Revenue Bonds, Series BA with a final maturity of 2035, a weighted average maturity of 10.3 years and an average borrowing cost of 2.37%.

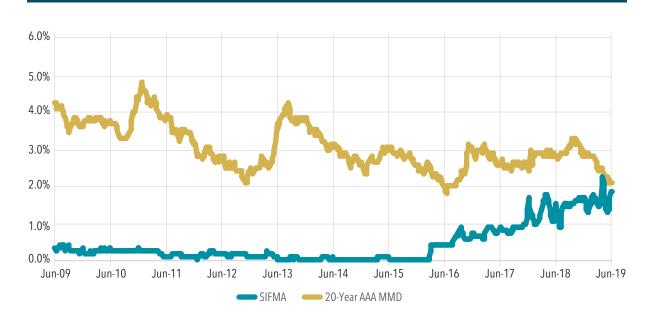
The Department has not issued any additional long-term bonds since the end of fiscal year 2019.

¹⁴ State of California Department of Finance

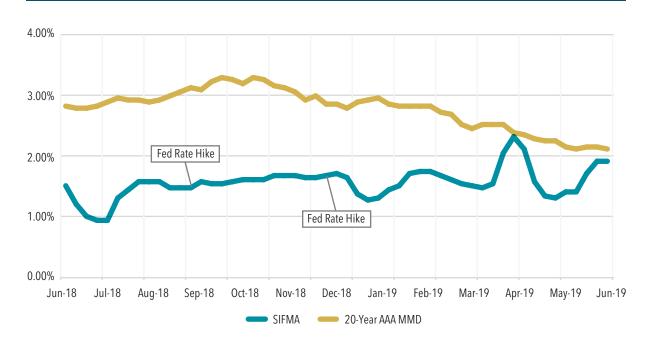
¹⁵ California State Controller, California Fiscal Focus, April 2020

¹⁶ Thompson-Reuters TM3

10-YEAR HISTORY OF SHORT AND LONG TERM INTEREST RATES



1-YEAR HISTORY OF SHORT AND LONG TERM INTEREST RATES



State Water Project

STATE WATER PROJECT CAPITAL PROJECTS

Since the State Water Project began construction in 1960, its original scope has been modified and expanded to address the needs of the growing population as well as commercial, industrial and agricultural demands for water in California. The following table shows the projects that have been undertaken as part of the State Water Project and the amounts that have been spent, as of October 10, 2018, for each project and each's project's estimated future capital expenditures.

ESTIMATED CAPITAL FINANCING FROM WATER SYSTEM REVENUE BONDS FOR EXISTING WATER SYSTEM PROJECTS (in Millions)

| Water System Project | Capital Expenditures Series A through BA | Estimated Future Capital Expenditures (1) | Total Capital Expenditures (5) |
|---------------------------------------------------------------|---------------------------------------------|----------------------------------------------|--------------------------------|
| Power plants: | | | |
| Small Hydro Project | \$ 46.6 | \$ 0.0 | \$ 46.6 |
| Pyramid Hydroelectric Project | 74.4 | 0.0 | 74.4 |
| Alamo Project | 30.4 | 0.0 | 30.4 |
| Bottle Rock Facilities (2) | 80.2 | 0.0 | 80.2 |
| South Geysers Project (3) | 40.9 | 0.0 | 40.9 |
| Reid Gardner Project (4) | 176.2 | 0.0 | 176.2 |
| East Branch Enlargement - Phase I | 453.0 | 0.0 | 453.0 |
| Additional East Branch Improvements | 124.1 | 0.0 | 124.1 |
| East Branch Enlargement - Phase II | 7.9 | 0.2 | 8.1 |
| Delta Pumping Plant Completion | 73.6 | 0.0 | 73.6 |
| Suisun Marsh Environmental Facilities | 37.2 | 0.0 | 37.2 |
| San Bernardino Tunnel Intake Structure | 29.3 | 0.0 | 29.3 |
| San Luis Rock Quarry | 4.5 | 0.0 | 4.5 |
| Castle Rock-Lakeville Transmission Line | 6.9 | 0.0 | 6.9 |
| Midway-Wheeler Ridge Transmission Line | 10.1 | 0.0 | 10.1 |
| Kern Water Bank | 37.0 | 0.0 | 37.0 |
| Vista del Lago Visitor Center | 9.0 | 0.0 | 9.0 |
| North Bay Aqueduct-Phase II | 87.1 | 0.0 | 87.1 |
| North Bay Aqueduct Improvements – Terminal Tanks | 7.4 | 6.1 (6) | 13.5 |
| North Bay Aqueduct Alternate Intake | 0.0 | 545.0 | 545.0 |
| Project Monitor and Control System | 71.5 | 0.0 | 71.5 |
| SWP Communications System Replacement (5) | 36.2 | 0.9 | 37.1 |
| Arroyo Pasajero Program | 4.9 | 0.2 | 5.1 |
| Hyatt Pump-Turbine Refurbishment | 17.9 | 4.6 (6) | 22.5 |
| Edmonston Pump Replacement (5) | 24.2 | 14.9 (6) | 39.1 |
| Delta Facilities Program | 272.8 | 502.1 | 774.9 |
| Tehachapi East Afterbay (5) | 70.7 | 11.3 | 82.0 |
| Perris Dam Remediation (5) | 124.5 | 92.6 | 217.1 |
| Thermalito Powerplant Cleanup and Reconstruction (7) | 238.0 | 32.7 | 270.7 |
| Oroville Dam Spillways Response, Recovery and Restoration (7) | 273.2 | 262.6 | 535.8 |
| Oroville Dam Safety Comprehensive Needs Assessment (7) | 1.9 | 23.1 | 25.0 |
| FERC Relicensing – State Water Project (7) | 25.7 | 74.3 | 100.0 |
| Facilities Reconstruction and Improvement Project | 566.7 | 1,381.9 | 1,948.5 |
| Project Planning Costs | 112.8 | 36.2 | 149.0 |
| Coastal Branch – Phase II | 491.3 | 0.0 | 491.3 |
| East Branch Extension – Phase I | 126.0 | 0.0 | 126.0 |
| East Branch Extension – Phase I Improvements (5) | 38.6 | 0.8(6) | 39.4 |
| East Branch Extension – Phase II (5) | 270.5 | 0.0 | 270.5 |
| South Bay Aqueduct Enlargement and Improvement (5) | 271.9 | 1.7 | 273.6 |
| Total Water System Projects (8) | \$4,375.3 | \$2,991.1 | \$7,366.2 |

⁽¹⁾ The projections contained in this table have been prepared by the Department's management for management purposes on the basis of certain assumptions, and consistent with certain requirements of the Water Supply Contracts. The projections are the responsibility of the Department. Eide Bailly, LLP has neither examined nor compiled such projections and, accordingly, Eide Bailly, LLP does not express an opinion or provide any other form of assurance with respect thereto.

⁽²⁾ Sold by the Department in 2001.

⁽³⁾ Sold by the Department in 2004.

⁽⁴⁾ The Department's ownership interest terminated in 2013.

⁽⁵⁾ The original Bond Anticipation Bonds ("BABs") for East Branch Extension - Phase I Improvements and East Branch Extension - Phase I exceeded the projected expenditures. \$44.5 million of the proceeds of the Series AE refunding of the BABs was redistributed from East Branch Extension - Phase I Improvements and East Branch Extension - Phase II to Communications System Replacement, Edmonston Pump Replacement, Tehachapi East Afterbay, Perris Dam Remediation, and South Bay Aqueduct Enlargement.

⁽⁶⁾ Projects are completed. Amounts are treated as "Estimated Future Capital Expenditures" pending reallocation.

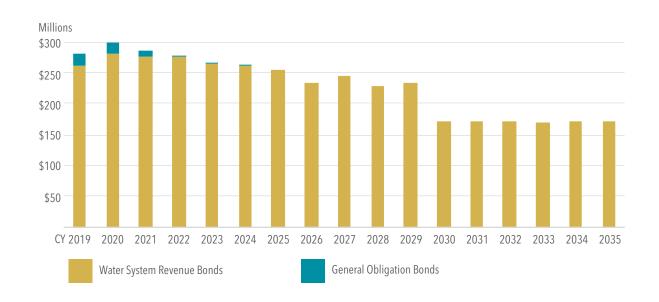
⁽⁷⁾ These projects are each a project authorized under the Resolution as part of the Facilities Reconstruction and Improvement Project, the Department has decided to show these projects individually due to the estimated aggregate principal amount.

⁽⁸⁾ Totals may not sum due to rounding.

STATE WATER PROJECT DEBT PROFILE

The Department currently has \$4 billion of total debt outstanding. These amounts include revenue bonds, general obligation bonds, commercial paper, and SB 84 loan. The debt has a final maturity of December 1, 2035. The State Water Contractors are responsible for the payment of debt service on the bonds and are billed annually for their share of the debt obligation. The Department has generally structured each new money issuance of bonds with level annual debt service payments. However, from 2019 to the final maturity of the Department's bonds in 2035, annual debt service payments will gradually decline from approximately \$300 million to approximately \$170 million.

ANNUAL DEBT SERVICE



STATE WATER PROJECT CREDIT RATINGS

The Department's Water System Revenue Bond credit is rated AAA (highest possible rating) by Standard & Poor's and Aa1 (second to highest possible rating) by Moody's Investor's Service. The Water System Revenue Bond credit rating is not tied to or impacted by the State of California's general obligation bond ratings or the Department's \$11 billion in Power Supply Revenue Bonds sold in 2002 to finance power for the state's investor owned utilities during the 2000-2001 energy crisis are rated separately.

OROVILLE DAM SPILLWAY EMERGENCY REPAIRS

Record rainfall in early February 2017 caused extensive damage to the spillways at the State Water Project's Oroville Dam. In May 2017, the Department implemented a \$500 million short-term borrowing program to fund repairs to the spillways and other related facility repair costs. In February 2018, the program was increased to \$800 million and to \$1.1 billion in October 2018. The Department maintains a combined short-term borrowing capacity of \$1.4 billion to fund other Water System Projects capital costs and Oroville Dam Spillway repairs. The Department expects FEMA reimbursement for up to 75% of eligible repair costs. The Department has received approximately \$234.3 million of

approved FEMA reimbursement as of April 25, 2020. Once all FEMA reimbursement has been received and applied to reduce the short-term borrowing program, any remaining short-term debt related to the Oroville Dam Spillway repairs is expected to be refinanced with long-term bonds. The State Water Contractors will be responsible for the debt service on these bonds and will bill customers accordingly. Through June 2019, \$661.9 million of short-term borrowing has been incurred for Oroville Dam Spillway repairs.

STATE WATER CONTRACTORS

CONTRACTOR SHARE OF PAYMENTS

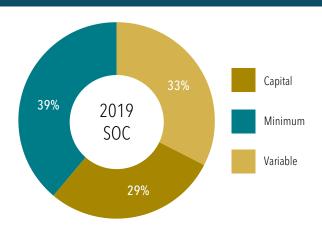
The State Water Contractors are billed each July for projected operating and capital costs for the upcoming calendar year. These Annual Statements of Charges include three types of charges:

- Capital (Repay Construction, Major Replacement/Refurbishment Costs)
- Minimum (Repay O&M and Non-Capital Replacement Costs)
- Variable (Repay Power Costs)

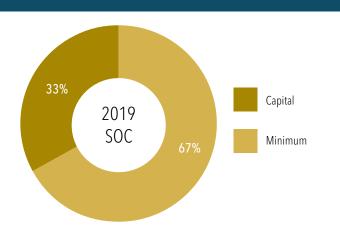
The capital, minimum and variable charges are applied in the following five main areas:

- Transportation Capital, Minimum, Variable
- Conservation Capital & Minimum
- Off-Aqueduct Power Facilities
- Water System Revenue Bond Surcharge
- Separate Bond Charges (East Branch Enlargement, East Branch Extension, Coastal Branch Extension, South Bay Aqueduct Enlargement, RAS)

TRANSPORTATION CHARGES



CONSERVATION CHARGES

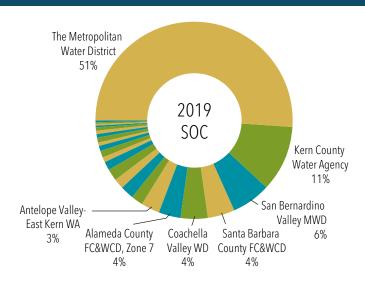


OFF AQUEDUCT POWER FACILITY CHARGES



The 29 State Water Contractors pay for the costs of the State Water Project through a combination of monthly and semi-annual charges. In 2019, seven of the Water Contractors have accounted for more than 84 percent of water system revenues.

REVENUE COLLECTED BY THE DEPARTMENT



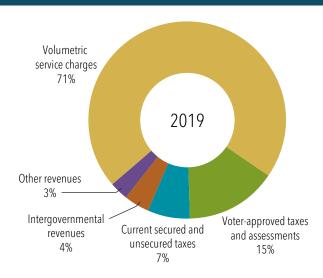
The percentage of total revenue collected by the Department from each Water Contractor varies significantly from the percentage of water the Water Contractor may be eligible to receive based on what is referred to as Table A. Table A is contained in the Long-Term Water Supply Contracts executed by the Department with each of the 29 State Water Contractors and details the maximum amount of water that each Water Contractor is entitled to request from the Department. The Water Contractors make their requests by October 1 for water to be delivered in the upcoming calendar year. Below are the Table A shares of water each Water Agency may request. Municipal and Industrial Contractors represent 76% of the Water Contractors' share of the Table A water supply, while Agricultural Contractors represent 24%.

MAXIMUM TABLE A AMOUNTS (IN ACRE FEET)

| Total State Water Project | 4,172,786 |
|------------------------------------------------------------------------------------------|-----------|
| Subtota | 2,629,544 |
| Ventura County Watershed Protection District | 20,000 |
| San Gorgonio Pass Water Agency | 17,300 |
| San Gabriel Valley Municipal Water District | 28,800 |
| San Bernardino Valley Municipal Water District | 102,600 |
| Palmdale Water District | 21,300 |
| Mojave Water Agency | 85,800 |
| The Metropolitan Water District of Southern California | 1,911,500 |
| Littlerock Creek Irrigation District | 2,300 |
| Desert Water Agency | 55,750 |
| Crestline-Lake Arrowhead Water Agency | 5,800 |
| Coachella Valley Water District | 138,350 |
| Castaic Lake Water Agency | 95,200 |
| Antelope Valley-East Kern Water Agency | 1// 0// |
| Subtota Southern California | 70,486 |
| Santa Barbara County Flood Control & Water Conservation District | 45,486 |
| San Luis Obispo County Flood Control & Water Conservation District | 25,000 |
| CENTRAL COAST Combined Chairman Country Floral Country 19 Wester Consequentian District | 25.000 |
| Subtota | 1,133,556 |
| Tulare Lake Basin Water Storage District | 87,471 |
| Kern County Water Agency | 982,730 |
| Empire West Side Irrigation District | 3,000 |
| Dudley Ridge Water District | 45,350 |
| County of Kings | 9,305 |
| Oak Flat Water District | 5,700 |
| SAN JOAQUIN VALLEY | |
| Subtota | 222,619 |
| Santa Clara Valley Water District | 100,000 |
| Alameda County Water District | 42,000 |
| Alameda County Flood Control & Water Conservation District, Zone 7 | 80,619 |
| SOUTH BAY AREA | |
| Subtota | 76,781 |
| Solano County Water Agency | 47,756 |
| Napa County Flood Control & Water Conservation District | 29,025 |
| NORTH BAY AREA | 0.7000 |
| Subtota | |
| City of Yuba | 9,600 |
| Plumas County Flood Control & Water Conservation District | 2,700 |
| County of Butte | 27,500 |

71% of the revenues collected by the Water Contractors for the payment of State Water Project charges are based on volumetric service charges. Other sources include property taxes, assessments, intergovernmental revenues, and other revenues.





Major Initiatives and Achievements

WATER SUPPLY CONTRACT EXTENSION

In May 2013, DWR and the Water Contractors began negotiations in a public forum to develop contract amendments to extend the term and change certain financial provisions of the Water Supply Contracts. In June 2014, the negotiators for DWR and the Water Contractors reached a general agreement on principles for such an amendment. DWR and 25 of the 29 Water Contractors have signed the Agreement in Principle (AIP). The County of Butte, Plumas County Flood Control and Water Conservation District, San Luis Obispo Flood Control and Water Conservation District, and the Santa Barbara Flood Control and Water Conservation District have not signed the AIP.

Currently, subject to individual elections for continued service by each Water Contractor, the Water Supply Contracts are to remain in effect for the longest of 75 years, December 31, 2035, or until all bonds issued to finance construction costs of SWP facilities have been repaid, whichever period is longest. No Bonds have been sold with a maturity date later than December 1, 2035. The 75-year term provision currently results in the Water Supply Contracts having varying termination dates that range between December 31, 2035 and 2042, subject to the aforementioned election.

A contract extension amendment has now been prepared based on the AIP. Under the amendment, the term of the Water Supply Contract for each Water Contractor that signs the amendment would be extended until December 31, 2085. Also under the amendment, certain provisions that provide for charges to the Water Contractors for capital costs and certain other costs, currently made on an amortized basis, would be amended to provide for charges to the Contractors on an annual "pay-as-you-go" basis to provide the revenues needed by DWR to make payments each year.

The current provisions authorizing DWR to charge the Water Contractors annually for the full amount of the required annual debt service and coverage on the Bonds will continue. Other provisions addressed in the amendment would provide for, among other things, an increase in DWR's operating reserves; a mechanism for financing capital projects, using System funds, and recovering those costs with interest from the Water Contractors; establishment of an account to pay for certain System expenses not chargeable to the Water Contractors; and the establishment of a Finance Committee consisting of DWR and Water Contractor representatives to serve as a forum for discussions and to provide a channel for recommendations to the Director of DWR concerning financial policies of the System.

As required by statute, on September 11, 2018, the Department of Water Resources (DWR) presented the terms of the proposed contract extension amendment in an informational hearing to the Legislature's Joint Legislative Budget Committee. With regard to the required environmental review pursuant to the California Environmental Quality Act (CEQA), in August 2016, DWR released, for public comment, a draft Environmental Impact Report (EIR) for the proposed contract extension amendment. The Director of DWR certified and released the final EIR in November 2018.

On December 11, 2018, the Director of DWR approved the contract extension amendment project under CEQA and executed the amendment with Metropolitan. As of April 1, 2020, twenty one Water Contractors have executed the extension amendment with the Department. Under the terms of the extension amendment, the amendment will only take effect as to all signing Water Contractors when (1) 24 Water Contractors, with an aggregate maximum Table A amount exceeding 3,950,000-acre feet, have executed the amendment and (2) all pending litigation addressing the amendment has been resolved, unless either of these conditions is waived by the Department and the Water Contractors that have signed the amendment.

Three lawsuits are now pending that address the amendment, and those lawsuits are discussed in Note 10.

RENEWABLE ENERGY

In accordance with the Renewable Energy Procurement Plan, that has been revised to meet Senate Bill (SB) 100's zero-emissions energy by 2045, DWR has achieved it procurement targets thru 2020. The System plans to procure approximately 1,080 GWh's of renewable energy by 2030. Purchase agreements for such power include:

- A 20-year contract with RE Camelot Solar Photovoltaic Project¹⁷ for the purchase of 45 megawatt (MW) of solar photovoltaic energy and associated capacity bundled with Renewable Energy Credits from their facility located in southeastern Kern County. The RE Camelot Plant is expected to deliver 125,000 MWh's of annual generation.
- A 20-year contract for 85 MW from Solverde 1, LLC whose facility, built near Lancaster in northern Los Angeles County, is expected to deliver 230,000 MWh's of annual generation.
- A 20-year contract for 9.5 MW with Solar Star California XLIV, LLC for a facility built at the Pearblossom power plant. This Pearblossom facility includes an additional 10-year option to extend and is expected to deliver 27,400 MWh's of annual generation.

¹⁷ Owned and operated by Dominion Solar Holdings, Inc.

Other Financial Information

INTERNAL CONTROLS

In developing and evaluating the System's accounting system, consideration is given to the adequacy of internal accounting controls. Internal accounting controls are designed to provide reasonable, but not absolute, assurance regarding the safeguarding of assets against loss from unauthorized use or disposition, and the reliability of financial records for preparing financial statements and maintaining accountability for assets. The concept of reasonable assurance recognizes that the cost of a control should not exceed the benefits likely to be derived, and the evaluation of costs and benefits requires estimates and judgments by management. We believe that the System's internal accounting controls adequately safeguard assets and provide reasonable assurance of proper recording of financial transactions.

P STREET PAPER REDUCTION PROJECT

Historically, the Department of Water Resources (DWR) has been a paper-based driven organization. Although information technology has advanced to support more economical and efficient management of records and information collection, many existing business processes have not changed and reliance on paper-based forms, documents, and reports are embedded in our procedures. While these represent critical business records that are used by DWR's various business areas and record retention compliance must be kept, this has resulted in millions of paper records/documents.

In its recent content inventory, the Business Services Office's (BSO) Records and Content Management (RCM) identified approximately 39,000 boxes of paper documents exist in the Divisions/Offices that are moving, which must be reviewed and reduced to the fullest extent possible by May 2021. DWR will accomplish this through purging (recycling or confidential destruct), long-term storage/archiving, retaining, and/or digitizing.

FINANCIAL MANAGEMENT ENHANCEMENTS PROGRAM

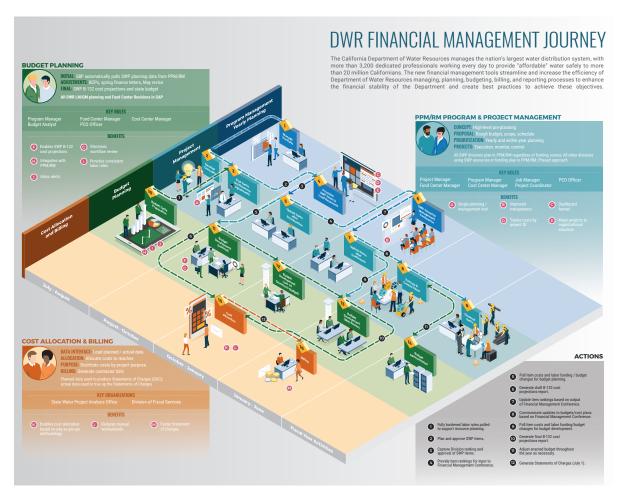
The Financial Management Enhancements Program (FMEP) is embarking on a multi-dimensional solution that will affect change for people, process, and technology. Based upon previous experience with past projects, DWR expects it cannot make the necessary improvements solely through technology. Technology upgrades require changes for people and processes, as well as a sustainable and robust training program.

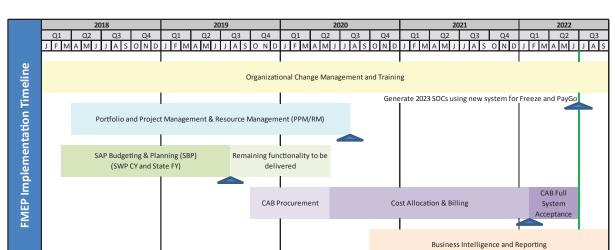
Within the People work stream, DWR is redesigning its training program and conducting organizational change management activities. In the Process work stream, DWR is standardizing business processes, developing a new planning and budgeting process, and will be revising the billing process. FMEP seeks to standardize the business process for program and project management in key activities such as planning and forecasting, budgeting, initiation, and closure. The goals are to align processes across SWP, strengthen oversight and control, and incorporate portfolio prioritization and resource allocation into the business process. FMEP seeks to create a single planning and budgeting process that allows SWP and DWR to plan for project and program activity costs, prepare the State Budget, and prepare the B-132 Cost Projections used in the preparation of the Statements of Charges. The objective is to reduce the overall level of effort to produce the three distinct work products, reduce the "budget" data calls, and improve the visibility and usability of budget and cost projection data. FMEP seeks to automate the manual processes for integrating B-132 Cost Projection data and Debt Service and to incorporate the requirements for the new Pay-As-You-Go calculation method into

the billing process. The goals of these changes are to reduce manual processes performed by SWP staff, account for both the existing calculation methodology (Freeze) and Pay-As-You-Go, and incorporate the debt service schedule into the cost calculation process.

In the Technology work stream, DWR intends to upgrade its core technologies and its cost allocation and billing system. The FMEP core technology seeks to provide SWP with a set of integrated technologies for planning, program management, project management, budgeting, billing, and reporting. The project intends to integrate the cycle of planning, program and project management, cost allocation, and billing into a single uniformed platform.

The following graphic depicts DWR's financial management journey map that describes how the four (4) technology efforts of FMEP work together:





The following graphic shows the overall technology implementation plan for FMEP:

Independent Audit

The System requires an annual audit of its financial records. These records, represented in the CAFR, have been audited with an unmodified opinion by a certified public accounting firm, Eide Bailly, LLP. The Independent Auditors' Report on our current financial statements is presented in the Financial Section. The 2018 financial statements were audited by Vavrinek, Trine, Day & Co., LLP, who was acquired by Eide Bailly, LLP on July 22, 2019.

Awards and Acknowledgments

The Government Finance Officers Association (GFOA) awarded a Certificate of Achievement for Excellence in Financial Reporting to the System for its CAFR for the fiscal year ended June 30, 2018. This was the third consecutive year that the System has achieved this prestigious award. In order to be awarded a Certificate of Achievement, the System published an easily readable and efficiently organized CAFR. This report satisfies both Generally Accepted Accounting Principles and applicable legal requirements.

A Certificate of Achievement is valid for a period of one year. We believe that our current CAFR continues to meet the Certificate of Achievement Program's requirements and we are submitting it to the GFOA to determine its eligibility for another certificate.

We would like to express our appreciation to the entire staff of the Fiscal Services Division and the State Water Project Analysis Office, whose professionalism, dedication, and efficiency are responsible for the preparation of this report. We would also like to thank Eide Bailly, LLP for their invaluable professional support in the preparation of the CAFR.

Respectfully submitted,

Ted Craddock

SWP Deputy Director

Vinay Narjit Singh Behl, CPA

Comptroller & Chief Financial Officer Chief, Division of Fiscal Services Lori Lay

Accounting Administrator II





Government Finance Officers Association

Certificate of Achievement for Excellence in Financial Reporting

Presented to

California State Water Resources

Development System

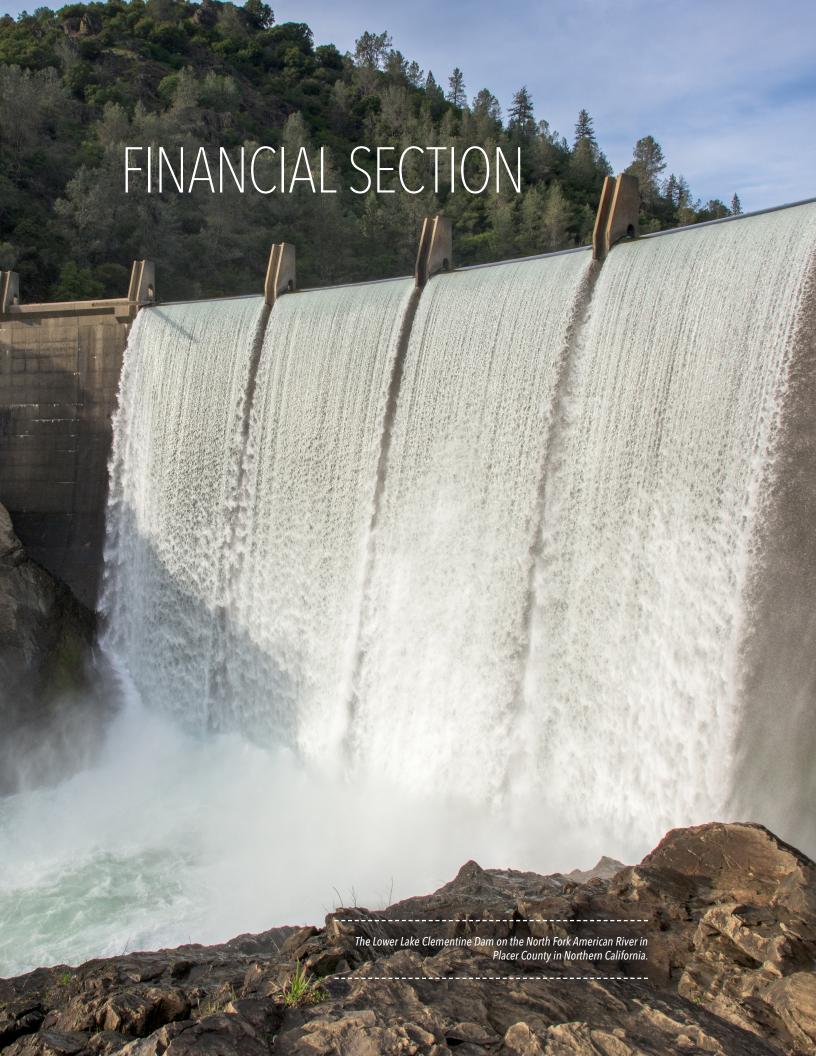
For its Comprehensive Annual Financial Report for the Fiscal Year Ended

June 30, 2018

Christopher P. Morrill

Executive Director/CEO









CPAs & BUSINESS ADVISORS

Independent Auditor's Report

To the Director of the State of California Department of Water Resources Sacramento, California

Report on the Financial Statements

We have audited the accompanying financial statements of the State Water Resources Development System (System), an enterprise fund of the State of California, as of and for the year ended June 30, 2019, and the related notes to the financial statements, which collectively comprise the System'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 an opinion 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 and the standards applicable to financial audits contained in *Government Auditing Standards*, issued by the Comptroller General of the United States. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the 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 entity's preparation and fair presentation of the financial statements in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the entity's internal control. Accordingly, we express no such opinion. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluating the overall presentation of the financial statements.

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

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Opinion

In our opinion, the financial statements referred to above present fairly, in all material respects, the respective financial position of the System, as of June 30, 2019, and the respective changes in financial position, and cash flows thereof for the year then ended in accordance with accounting principles generally accepted in the United States of America.

Adjustments to Prior Period Financial Statements

The financial statements of the System as of June 30, 2018, were audited by other auditors whose report dated March 26, 2019, expressed an unmodified opinion on those financial statements. As discussed in Note 2 to the financial statements, the System has restated its 2018 financial statements during the current year to correct the balances of unrecorded construction in progress, amounts recoverable through future billings under the water supply contracts, liabilities due to contractors, deferred inflows, and net position. The other auditors reported on the 2018 financial statements before the restatement.

As part of our audit of the 2019 financial statements, we also audited the adjustments described in Note 2 that were applied to restate the 2018 financial statements. In our opinion, such adjustments are appropriate and have been properly applied. We were not engaged to audit, review, or apply any procedures to the 2018 financial statements of the System other than with respect to the adjustments and, accordingly, we do not express an opinion or any other form of assurance on the 2018 financial statements as a whole.

Emphasis of Matter

Reporting Entity

As disclosed in Note 1 to the financial statements, the financial statements present only the System and do not purport to, and do not, present fairly the financial position of the State of California as of June 30, 2019, and the changes in its financial positions and its cash flows for the year then ended in conformity with accounting principles generally accepted in the United States of America. Our opinion is not modified with respect to this matter.

Correction of Errors

As disclosed in Note 2 to the financial statements, System recorded prior period adjustments to correct the balances of construction in progress, amounts recoverable through future billings under the water supply contracts, liabilities, deferred inflows, and net position. Our opinion is not modified with respect to this matter.

Other Matters

Prior-Period Financial Statements

The financial statements as of June 30, 2018, were audited by Vavrinek, Trine, Day & Co., who joined with Eide Bailly LLP as of July 22, 2019, and whose report dated March 26, 2019, expressed an unmodified opinion on those statements.

Required Supplementary Information

Accounting principles generally accepted in the United States of America require that management's discussion and analysis, schedule of the System's proportionate share of the net pension liability, schedule of the System's Pension contributions, schedule of the System's proportionate share of the net other-post employment benefits (OPEB) liability, and schedule of the System's OPEB contributions, 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 an opinion on the financial statements taken as a whole. The introductory section, calculation of the adequacy of debt service coverage for the Central Valley Project revenue bonds, and the statistical section is presented for purposes of additional analysis and is not a required part of the financial statements.

The calculation of the adequacy of debt service coverage for the Central Valley Project revenue bonds is the responsibility of management and was derived from and relates directly to the underlying accounting and other records used to prepare the financial statements. Such information has been subjected to the auditing procedures applied in the audit of the financial statements and certain additional procedures, including comparing and reconciling such information directly to the underlying accounting and other records used to prepare the financial statements or to the financial statements themselves, and other additional procedures in accordance with auditing standards generally accepted in the United States of America. In our opinion, the calculation of the adequacy of debt service coverage for the Central Valley Project revenue bonds is fairly stated, in all material respects, in relation to the financial statements taken as a whole.

The introductory and statistical sections have not been subjected to the auditing procedures applied in the audit of the basic financial statements and, accordingly, we do not express an opinion or provide any assurance on them.

Other Reporting Required by Government Auditing Standards

In accordance with Government Auditing Standards, we have also issued our report dated April 28, 2020, on our consideration of the System'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 System'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 System's internal control over financial reporting and compliance.

Sacramento, California

April 28, 2020



MANAGEMENT'S DISCUSSION AND ANALYSIS (UNAUDITED)

Management's Discussion and Analysis

(Required Supplementary Information)

This discussion and analysis is designed to assist the reader in focusing on significant financial issues and activities for the fiscal year ended June 30, 2019 and 2018, and to identify any significant changes in the financial position of the State Water Resources Development System (System), which is administered by the California Department of Water Resources (DWR). Readers are encouraged to consider the information presented in conjunction with the financial statements as a whole, which follow Management's Discussion and Analysis. This discussion and analysis and the financial statements do not relate to DWR's other governmental and proprietary funds. The System includes the State Water Project (SWP), the Davis-Grunsky Act Program, and the San Joaquin Drainage Implementation Program.

Financial Highlights

- During fiscal 2019 and 2018, the System recorded an increase in total assets of \$810.3 million and \$1,231 million, respectively, on total operating revenues of \$1,150 million and \$1,207 million, respectively.
- Deferred inflows of resources for capital costs increased by \$264.7 million to an ending balance of \$1,104.2 million in fiscal 2019 compared to \$839.5 million in fiscal 2018. The increase is primarily due to net revenues collected for principal payments of previous costs incurred to construct Utility Plant in Service (UPIS) assets.
- Deferred inflows of resources for capital costs increased by \$202.3 million to an ending balance of \$839.5 million in fiscal 2018 compared to \$637.2 million in fiscal 2017. The increase was primarily due to net revenues collected for principal payments of previous costs incurred to construct Utility Plant in Service (UPIS) assets.
- On April 24, 2019, the System issued tax-exempt, fixed rate CVP Revenue Bond, Series BA, with a par amount of \$299.6 million and a premium of \$70.3 million to redeem \$346 million of commercial paper notes.
- On October 18, 2018, the System issued tax-exempt, fixed rate CVP Revenue Bond, Series AZ, with a par amount of \$215.3 million and a premium of \$34.2 million to redeem \$129.7 million of commercial paper notes and to refund

Series AF and AY. The System achieved a net present value savings of \$2.5 million, representing 2.26% savings of the refunded bonds.

■ In August 2018, the System received an approximately \$3.8 million FEMA disaster grant, included in other revenues, to reimburse the System for costs associated with the Oroville Dam Spillway Recovery and Restoration Project.

Overview of Financial Statements

This discussion and analysis is intended to serve as an introduction to the System's basic financial statements. The System's basic financial statements are comprised of three components: 1) Financial Statements, 2) Notes to the Financial Statements, and 3) Other Information.

FINANCIAL STATEMENTS

The System is accounted for as an enterprise fund. Enterprise funds account for the acquisition, operation and maintenance of governmental facilities and services that are entirely or predominantly self-supported by user charges. These financial statements report information using accounting methods similar (although not identical) to those used by private sector companies. The Statements of Net Position includes all the assets, liabilities, deferred outflows and inflows of resources, and net position. The Statements of Revenues, Expenses and Changes in Net Position reports all of the revenues and expenses incurred during the fiscal year presented. The Statements of Cash Flows reports the cash inflows and outflows classified by operating, investing, noncapital financing, and capital and related financing activities during the reporting period presented.

The Financial Statements can be found on pages 45 - 51 of this report.

NOTES TO THE FINANCIAL STATEMENTS

The notes to the financial statements communicate certain information required by Generally Accepted Accounting Principles (GAAP). The notes to the financial statements can be found on pages 53 - 104 of this report.

REQUIRED SUPPLEMENTARY INFORMATION (RSI) AND OTHER INFORMATION

In addition to the basic financial statements and accompanying notes, this report also presents certain supplementary information related to the pension and other postemployment benefits plans and certain supplementary information concerning the System's adequacy of debt service coverage. RSI and Supplementary information can be found on pages 105 - 110 of this report.

Financial Analysis

The SWP is considered a regulated entity, as such, rates are permitted to be set at levels intended to recover the estimated costs of providing regulated services or products, including the cost of capital. If revenues intended to cover some costs are provided before costs are incurred, those revenues are reported as deferred inflows of resources and recognized as revenue when the associated costs are incurred. If regulation provides assurance that incurred costs will be recovered in the future, those costs are capitalized as receivables and recovered through future billings.

| Condensed Statements of Net Position | | | | | | | | |
|--------------------------------------------------------------------|----|-----------|-----|----------------------|------|----------------------|-----------------------|-----------------------|
| June 30, | | | | | | | | |
| | | 2019 | (/ | 2018 As restated) | (/ | 2017 As restated) | % Change 2019-2018 | % Change 2018-2017 |
| | | (am | our | nts in thousar | nds) | | | |
| Assets: | | | | | | | | |
| Other assets | \$ | 2,868,819 | \$ | 2,613,180 | \$ | 2,029,853 | 9.8% | 28.7% |
| Total utility plant | | 5,520,962 | | 4,966,257 | | 4,318,251 | 11.2% | 15.0% |
| Total assets | | 8,389,781 | | 7,579,437 | | 6,348,104 | 10.7% | 19.4% |
| Total deferred outflows of resources | | 296,613 | | 401,026 | | 282,685 | -26.0% | 41.9% |
| Total assets and deferred outflows of resources | \$ | 8,686,394 | \$ | 7,980,463 | \$ | 6,630,789 | 8.8% | 20.4% |
| Liabilities: | | | | | | | | |
| Other liabilities | \$ | 732,168 | \$ | 639,296 | \$ | 574,256 | 14.5% | 11.3% |
| Noncurrent liabilities: | | 5,298,865 | | 5,077,345 | | 4,025,773 | 4.4% | 26.1% |
| Total liabilities | | 6,031,033 | | 5,716,641 | | 4,600,029 | 5.5% | 24.3% |
| Total deferred inflows of resources | | 1,489,012 | | 1,069,784 | _ | 787,863 | 39.2% | 35.8% |
| Net position: | | | | | | | | |
| Net investment in capital assets | | 783,286 | | 942,618 | | 748,439 | -16.9% | 25.9% |
| Restricted | | 383,063 | | 251,420 | | 494,458 | 52.4% | -49.2% |
| Total net position | | 1,166,349 | | 1,194,038 | | 1,242,897 | -2.3% | -3.9% |
| Total liabilities, deferred inflows of resources, and net position | \$ | 8,686,394 | \$ | 7,980,463 | \$ | 6,630,789 | 8.8% | 20.4% |

^{*} Certain amounts have been restated or reclassified from amounts previously reported to conform with the current year presentation. See Note 2.

The largest portion of the System's current fiscal year net position is investments in capital assets, including but not limited to land, improvements, buildings, machinery, and equipment. Investments in capital assets are reflected net of

accumulated depreciation less any outstanding related debt used to construct or acquire those assets. The main use of these capital assets is to provide water delivery and storage, flood control, recreation, fish and wildlife enhancement, and hydroelectric power. There was an increase in capital assets of \$554.7 million, primarily due to the construction of the Oroville Dam Spillway Recovery and Restoration Project. This increase was offset by an increase of \$714 million in debt relating to the issuance of Water System Revenue Bond, Series BA, to fund capital assets and increases in deferred inflows of resources related to OPEB due to assumption changes, and increases in capital costs relating to the timing difference between capital revenue recovered and the depreciation expense recognition. This resulted in an overall decrease in net investment in capital assets of \$159.3 million. Although the System's investments in its capital assets is reported net of related debt, it should be noted that resources needed to repay this debt must be provided from other sources, mainly contractual billings to the Water Contractors, since the capital assets themselves cannot be used to liquidate these liabilities.

The remaining balance of the System's current fiscal year net position represents restricted net position, which are resources subject to external restrictions on how they may be used.

The following table reflects how the System recognized revenues and expenses during the year:

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

| | Fisca | l Year Ended Ju | | | |
|----------------------------------------------|--------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | 2019 | 2018 (As restated) | 2017 (As restated) | % Change 2019-2018 | % Change 2018-2017 |
| | (am | ounts in thousar | nds) | | |
| Operating revenues: | | | | | |
| Water supply | \$ 1,010,751 | \$ 1,076,238 | \$ 1,082,587 | -6.1% | -0.6% |
| Power sales | 96,308 | 88,148 | 85,089 | 9.3% | 3.6% |
| Federal and State reimbursements | 42,593 | 42,127 | 55,664 | 1.1% | -24.3% |
| Total operating revenues | 1,149,652 | 1,206,513 | 1,223,340 | -4.7% | -1.4% |
| Operating expenses: | | | | | |
| Operations and maintenance | 645,191 | 555,163 | 544,925 | 16.2% | 1.9% |
| Purchased power | 290,908 | 342,115 | 339,993 | -15.0% | 0.6% |
| Depreciation and amortization | 94,191 | 80,101 | 77,265 | 17.6% | 3.7% |
| Operating expenses recovered, net | (151,926) | (64,454) | 57,066 | 135.7% | -212.9% |
| Total operating expenses | 878,364 | 912,925 | 1,019,249 | -3.8% | -10.4% |
| Income from operations | 271,288 | 293,588 | 204,091 | -7.6% | 43.9% |
| Nonoperating revenues/expenses: | | | | | |
| Capital revenues recovered (deferred), net | (334,870) | (294,864) | (130,147) | 13.6% | 126.6% |
| Interest expense | (116,481) | (105,429) | (105,768) | 10.5% | -0.3% |
| Investment income (loss), net | 22,482 | 15,353 | 9,012 | 46.4% | 70.4% |
| Other revenues (expenses), net | 129,892 | 42,493 | 22,812 | 205.7% | 86.3% |
| Total nonoperating revenues/expenses | (298,977) | (342,447) | (204,091) | -12.7% | 67.8% |
| Change in net position | (27,689) | (48,859) | - | -43.3% | - |
| Net position, beginning of year, as restated | 1,194,038 | 1,242,897 | 1,205,428 | -3.9% | 3.1% |
| Net position, end of year | \$ 1,166,349 | \$ 1,194,038 | \$ 1,242,897 | -2.3% | -3.9% |

^{*} Certain amounts have been restated or reclassified from amounts previously reported to conform with the current year presentation. See Note 2.

The System recognized a loss in fiscal 2019 of \$27.7 million compared to a loss of \$48.9 million in fiscal 2018. The components of the losses are shown in the table below:

| Net Income/Loss | | | | | |
|-----------------------------------|------------------------|----------|----|----------|--|
| | 2019 | | | 2018 | |
| | (amounts in thousands) | | | | |
| Capital cost in excess of revenue | \$ | (6,040) | \$ | (18,408) | |
| Suspended costs | | (6,777) | | (18,590) | |
| Recreation minimum | | (25,497) | | (20,432) | |
| Recreation depreciation | | (2,404) | | (2,229) | |
| Bad debt | | (13,025) | | - | |
| Interest and other miscellaneous | | 26,054 | | 10,800 | |
| Net income/ (loss) | \$ | (27,689) | \$ | (48,859) | |

Revenues

OPERATING REVENUES

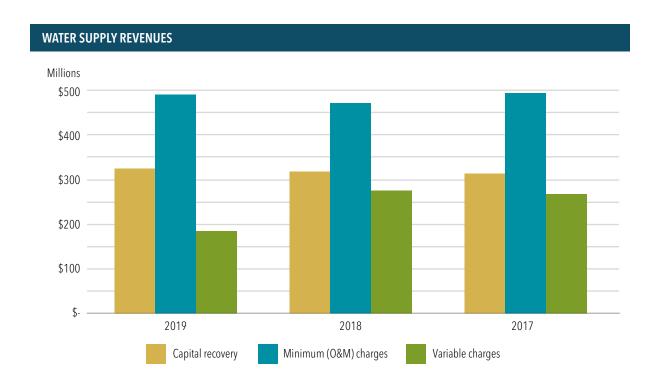
The decrease of \$56.9 million in operating revenues for fiscal 2019 is attributable to a decrease of \$65.5 million in water supply revenue billings primarily due to decreased water deliveries. This decrease was offset by an increase in power sales revenue of \$8.1 million and an increase of \$500 thousand in federal reimbursements.

The decrease of \$16.8 million in operating revenues for fiscal 2018 is attributable to a decrease of \$13.5 million in federal and state reimbursements primarily due to funds depleted for capital cost recovery from Proposition 84 and Greenhouse Gas Reduction funds, and a decrease of \$6.3 million in water supply revenue billings mainly due to a change in the Delta Water rate. These decreases were offset by an increase of \$3 million in power sales.

WATER SUPPLY REVENUE

The largest portion of revenues, approximately 87.92%, comes from Water Supply Revenue. In fiscal 2019, the System generated \$1,010.8 million in water supply revenue, compared to \$1,076.2 million in fiscal 2018, and \$1,082.6 million in fiscal 2017.

The following table shows a comparative breakdown of the components of water supply revenue for fiscal years 2019, 2018, and 2017:



Expenses

OPERATING EXPENSES

Total operating expenses decreased by \$34.6 million for fiscal 2019 to a total of \$878.4 million. The decrease is primarily due to the timing difference between recovery and recognition of operating costs and decreased power purchases.

Total operating expenses decreased by \$106.3 million for fiscal 2018 to a total of \$913 million. The decrease is primarily due to the timing difference between recovery and recognition of operating costs, offset in part by increased employment costs.

OPERATIONS AND MAINTENANCE EXPENSES

The total operations and maintenance expenses increase of \$90 million in fiscal 2019 was mostly attributed to the following factors: \$53 million increase in litigation cost related to the Oroville Dam Spillway; \$24 million increase in consultant and professional services, facilities security, and waste removal cost; and \$13 million increase in bad debt expense.

The increase in operations and maintenance expenses of \$10.2 million in fiscal 2018 was primarily due to a \$30 million increase in employment costs related to a change in the assumed discount rate used to calculate pension obligations.

PURCHASED POWER

In fiscal 2019, purchased power decreased by \$51.2 million to a total of \$291 million. This was mainly due to water deliveries decreased from 3.1 million acre-feet in fiscal 2018 to 2.4 million acre-feet in 2019, a decrease of 0.70 million acre-feet or 22.47%. The decrease in water deliveries resulted in decreased pumping demand.

In fiscal 2018, purchased power increased by \$2.1 million to a total of \$342.1 million. This slight increase was due to above average water levels at the reservoirs during fiscal 2018. This resulted in continued pumping demand.

OPERATING AND MAINTENANCE EXPENSE RECOVERED (DEFERRED)

Operating and maintenance expense recovered (deferred) represents an adjustment for the timing difference between operations and maintenance (O&M) costs recovered as per the Water Supply Contracts and the incurrence of such O&M costs. Operating and maintenance expense recovered (deferred) increased by \$87.5 million in fiscal 2019. This is due mainly to the difference noted in the Operations and Maintenance expenses section.

In fiscal 2018, operating and maintenance expense recovered decreased by \$121.5 million. This was due mainly to the normal-course timing differences for prior year over-recoveries offset in part by \$30 million of increased employment costs.

CAPITAL REVENUES DEFERRED

Capital revenues deferred represents an adjustment for the timing difference between capital revenue recovered as per the Water Supply Contracts and the depreciation expense recognition of such capital assets and their associated financing costs. Capital revenues deferred increased by \$40 million in fiscal 2019. This is due primarily to the normalcourse timing difference as described.

In fiscal 2018, capital revenues recovered increased by \$164.7 million. This increase was due primarily to the normalcourse compensation for prior year under-recoveries of \$88 million as well as an increased current year depreciation timing difference.

INTEREST EXPENSE

Interest expense for fiscal 2019 increased by \$11 million from \$105.4 million in fiscal 2018 to \$116.4 million in fiscal 2019. The \$11 million increase was attributable to the new issuances of Revenue Bonds Series AZ and BA, interest accrued for the SB 84 Loan, as well as the increase in interest from Commercial Paper borrowings.

Interest expense for fiscal 2018 decreased by \$339 thousand to a total of \$105.4 million. The \$339 thousand decrease was attributable to the issuance of Revenue Bonds Series AX and AY, which refunded other bonds, as well as the gradual decrease in interest paid on the General Obligation (GO) and Devil Canyon Castaic (DCC) bonds as those bonds continue to mature.

Capital Assets and Debt Administration

CAPITAL ASSETS

Investments in capital assets include utility plant and equipment, land, construction work in progress (CWIP), land use rights, computer software, other intangible assets, and general. The increase in the System's investment in capital assets for fiscal 2019 was \$554.7 million (including \$28.4 million of capitalized interest) and for fiscal 2018 was \$648 million (including \$4.5 million of capitalized interest), an increase of 11.17% and 15.01%, respectively. Additional details of capital assets are contained in Note 4.

The System's investment in capital assets is presented below:

| Capital Assets | | | | | | |
|----------------------------------------------|------------------------|-------------|-----------------------|-------------|-----------------------|-------------|
| | Balance (in thousands) | | | | | |
| | 2019 | | 2018 (as restated) | | 2017 (as restated) | |
| Nondepreciable Utility Plant | \$ | 2,379,198 | \$ | 1,926,901 | \$ | 1,608,527 |
| Depreciable Utility Plant | | 5,418,274 | | 5,224,850 | | 4,826,862 |
| Total Utility Plant | | 7,797,472 | | 7,151,751 | | 6,435,389 |
| Less Accumulated depreciation / amortization | | (2,276,510) | | (2,185,494) | | (2,117,138) |
| Utility Plant, Net | \$ | 5,520,962 | \$ | 4,966,257 | \$ | 4,318,251 |

LONG-TERM DEBT

The System's total debt increased \$436.9 million or 12.3% during fiscal 2019. This increase was comprised of the issuance of approximately \$619.3 million in new debt, net of refundings, including premiums, offset by bond principal payments and amortization of premiums and discounts of \$182.4 million. The change in debt included the issuance of new bond Series AZ and BA with a par of \$514.9 million and a premium of \$104.5 million, the issuance of \$585.1 million of commercial paper notes, which was partially offset by a \$109.1 million in refunded bonds by Series AZ and \$475.8 million in refunded commercial paper notes by Series AZ and BA. The most significant increase in debt was due to the issuance of commercial paper notes, which were used to continue financing the cost related to the Oroville Dam Spillway Recovery and Restoration Project. During fiscal 2018, the System's total debt increased by \$302.8 million. This was comprised of new debt of \$504.4 million, net of refundings, and principal payments and amortization of premiums and discounts of \$262.5 million.

The System's long-term debt is presented below:

| Long-Term Debt | | | | | | |
|--------------------------|------------------------|-----------|----|-----------|----|-----------|
| | Balance (in thousands) | | | | | |
| | | 2019 | | 2018 | | 2017 |
| Revenue Bonds | \$ | 3,222,577 | \$ | 2,869,007 | \$ | 3,026,368 |
| General Obligation Bonds | | 28,090 | | 54,065 | | 88,300 |
| Commercial Paper | | 689,984 | | 580,672 | | 147,165 |
| SB 84 Loan | | 60,910 | | 60,910 | | - |
| Total | | 4,001,561 | | 3,564,654 | | 3,261,833 |
| Less current portion | | (176,994) | | (155,375) | | (172,805) |
| Long-term portion | \$ | 3,824,567 | \$ | 3,409,279 | \$ | 3,089,028 |

Additional information on the System's long-term debt can be found in Notes 6 and 7 of this report.

Economic Factors

During Public Health Emergency, COVID-19, the Department of Water Resources (DWR) continues operations and maintenance as an essential activity as defined in Governor Newsom's order. Following quidance from Governor Newsom and California Department of Public Health, DWR has made several changes in response to the dynamic situation. Such changes included developing continued operations plans to maintain its core functions, particularly water deliveries and maintenance of critical infrastructure and modifying staffing as needed to ensure coverage 24 hours a day, seven days a week, while also complying with guidance from Governor Newsom regarding social distancing and other measures to protect public health.

DWR continues to provide the State of California its core services of water delivery, flood protection, dam safety and infrastructure maintenance. California residents can be assured that DWR will continue to provide reliable, high quality water and that California's water treatment process removes and kill viruses, including COVID-19.

DWR finances a portion of its capital improvement program through the short-term tax-exempt securities market. The COVID-19 pandemic had significant effects on the financial markets. The liquidity pressures were particularly severe in the municipal market due primarily to its much narrower investor base. Beginning in early March 2020, the commercial paper market on which DWR relies for interim funding, experienced significantly higher funding costs. However, DWR was able to continue to place its outstanding commercial paper with traditional investors without needing to draw on the bank liquidity facilities supporting the commercial paper.

In late March, the Federal Reserve Bank and the U.S. Treasury took unprecedented actions and implemented programs to support the financial markets, including programs designed specifically to support the commercial paper and other short-term funding markets, including measures intended to support the municipal short-term markets. These government programs have to date been effective in restoring normal functioning to the commercial paper market and DWR's commercial paper funding rates have returned to normal, pre-COVID-19, levels.

However, the COVID-19 pandemic is unprecedented and its ongoing impact on the economy and the financial markets cannot be predicted. There is no certainty that DWR will be able to continue to place its commercial paper with investors at normal rates. DWR could experience significantly higher funding costs, be required to draw on its bank liquidity facilities and/or be unable to issue new commercial paper to fund planned capital expenditures. Further, severe disruptions could limit DWR's access to long-term financing that could otherwise provide a means for refinancing commercial paper or bank loans incurred to purchase commercial paper that could not be placed with public market investors.

The SWP must enter the power market to facilitate the operation of the California aqueduct. Operations continue 24 hours a day, seven days a week, with constant coordination with other utilities, Water Contractors, the California Independent System Operator (CAISO), and SWP pumping and generating plants. The power market, controlled by CAISO, can have a material impact on the power sales revenues and power purchase expenses of the SWP.

Economics, climate changes, and new legislation have required the System to explore and include more renewable energy sources. In 2005, Executive Order S-3-05 was signed into law and in 2006 Assembly Bill (AB-32) was passed, requiring California to reduce its Green House Gas (GHG) emissions to 1990 levels by 2020. By 2050, GHG emission levels must be below 80% of 1990 levels.

As a result of these new laws, California will require a higher percentage of the System's pumping load to be served by renewable energy sources. By 2050, approximately 50% of the System pump load will need to be supplied by renewable energy. In fiscal 2015, the System began purchasing renewable energy under a purchase contract with Dominion Solar-RE Camelot, a 45 MW solar plant. The System is also under contract for solar energy purchases with Solverde 1 and Solar Star California XLIV, which came on line near the end of calendar year 2016 and added an additional 95 MW of renewable power.

Every year, the SWP is confronted with factors that affect how the operation of the System is conducted. Some factors include plant or unit outages, environmental concerns, weather, fluctuations in natural gas prices, transmission line outages, and wild fires. In fiscal 2019, the SWP was still affected by the loss of the Thermalito Hyatt Power Plant (THPP) causing ongoing unavailability of units at DWR's Oroville complex.

Increases or decreases in water allocations depend on water availability. Water deliveries decreased from 3.13 million acre-feet in fiscal 2018 to 2.43 million acre-feet in fiscal 2019, a decrease of 0.70 million acre-feet or 22.47%. The System experienced a dry winter in fiscal 2018, which contributed to decreased water deliveries. Water allocation began at 10% and gradually increased to 75% in June 2019 as numerous winter storms occurred during November 2018 through March 2019, which created a run-off into DWR's reservoirs. Lake Oroville reservoir was at 30% full capacity in January 2019 to near 100% full capacity by June 2019.

Northern California experienced a wet winter in fiscal 2019 and recorded the fifth largest snowpack measurement on record. With such high snowpack water content, the Department is hopeful that the high snowpack will continue to create run-off into DWR's reservoirs until late summer.

Requests for Information

This financial report is designed to provide a general overview of the System's finances for all those with an interest in the government's finances. Questions concerning any of the information provided in this report or requests for additional information should be addressed to the Chief, Enterprise Accounting Branch, 1416 Ninth Street Room 816, Sacramento, CA 95814.

FINANCIAL STATEMENTS

| Statements of Net Position | (amoı | (amounts in thousands) | | | | |
|-----------------------------------------------------------------------------------------|--------------|------------------------|--|--|--|--|
| | June 30, | | | | | |
| | 2019 | 2018 (As restated) | | | | |
| Assets | | | | | | |
| Current assets: | | | | | | |
| Cash and cash equivalents | \$ 708,971 | \$ 731,382 | | | | |
| Receivables: | | | | | | |
| Interest on investments | 5,037 | 4,229 | | | | |
| Water supply and power billings (net) | 147,624 | 97,02 | | | | |
| Due from federal and state governments (net) | 207,380 | 53,63 | | | | |
| Due from others | 7,664 | 11! | | | | |
| Inventories | 4,893 | 5,43 | | | | |
| Total current assets | 1,081,569 | 891,824 | | | | |
| Noncurrent assets: | | | | | | |
| Restricted assets: | 27.770 | 27.40 | | | | |
| Cash and cash equivalents restricted for plant replacements | 37,779 | 37,408 | | | | |
| Cash and investments restricted for debt service | 142,380 | 126,042 | | | | |
| Cash and cash equivalents on deposit with revenue bond trustee Total restricted assets | 34,354 | 33,913 | | | | |
| Amounts recoverable through future billings under | 214,513 | 197,36 | | | | |
| long-term water supply contracts: | | | | | | |
| Operations and maintenance expense | 1,014,786 | 921,883 | | | | |
| Unamortized project costs | 184,727 | 187,315 | | | | |
| • • | · | | | | | |
| Unbilled interest incurred on capital costs | 267,071 | 308,742 | | | | |
| Total amounts recoverable through future billings | 1,466,584 | 1,417,940 | | | | |
| Loans receivable from local water agencies | 10,105 | 10,924 | | | | |
| Advances to other state funds | 96,048 | 95,12 | | | | |
| Utility Plant: | | | | | | |
| Nondepreciable utility plant | 300,865 | 273,896 | | | | |
| Depreciable utility plant | 5,418,274 | 5,224,850 | | | | |
| Less accumulated depreciation/amortization | (2,276,510) | (2,185,494 | | | | |
| Net utility plant in service | 3,442,629 | 3,313,252 | | | | |
| Construction work in progress | 2,078,333 | 1,653,005 | | | | |
| Total utility plant | 5,520,962 | 4,966,25 | | | | |
| Total noncurrent assets | 7,308,212 | 6,687,613 | | | | |
| Total assets | 8,389,781 | 7,579,437 | | | | |
| Deferred outflows of resources | | | | | | |
| Deferral of loss on refunding | 138,932 | 149,380 | | | | |
| · · | | | | | | |
| Deferral of resources related to pensions | 133,035 | 230,393 | | | | |
| Deferral of resources related to OPEB | 24,646 | 21,253 | | | | |
| Total deferred outflows of resources | 296,613 | 401,026 | | | | |
| Total assets and deferred outflows of resources | \$ 8,686,394 | \$ 7,980,463 | | | | |
| | | | | | | |

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

| Statements of Net Position (continued) | | (amounts in thousands) | | | | |
|--------------------------------------------------------------------|----------|------------------------|----|----------------------|--|--|
| | June 30, | | | | | |
| | | 2019 | (/ | 2018 As restated) | | |
| Liabilities | | | | As restated) | | |
| Current liabilities: | | | | | | |
| Current maturities of bonds | \$ | 164,440 | \$ | 155,375 | | |
| Accounts payable | • | 172,753 | • | 185,119 | | |
| Accrued compensated absences | | 16,578 | | 15,402 | | |
| Pollution remediation | | 10,358 | | 8,557 | | |
| SB 84 Loan | | 12,554 | | - | | |
| Accrued interest on long-term debt | | 15,329 | | 10,685 | | |
| Due to other state funds | | 50,821 | | 53,059 | | |
| Proceeds due to water contractors | | 289,335 | | 211,099 | | |
| Total current liabilities | | 732,168 | | 639,296 | | |
| Noncurrent liabilities: | | · | | | | |
| General obligation bonds, net of current portion | | 10,685 | | 28,090 | | |
| Revenue bonds, net of current portion | | 3,075,542 | | 2,739,607 | | |
| Commercial paper | | 689,984 | | 580,672 | | |
| Net pension liability | | 527,333 | | 630,912 | | |
| Net OPEB liability | | 771,286 | | 912,912 | | |
| SB 84 Loan | | 48,356 | | 60,910 | | |
| Claims liability | | 52,259 | | 00,710 | | |
| Accrued compensated absences, net of current portion | | 25,703 | | 26,926 | | |
| Pollution remediation, net of current portion | | 41,978 | | 41,311 | | |
| Unearned revenue - State and Federal capital recovery | | 16,468 | | 17,061 | | |
| Advances for plant replacements | | 39,271 | | 38,944 | | |
| Total noncurrent liabilities | | 5,298,865 | | 5,077,345 | | |
| Total liabilities | | 6,031,033 | | 5,716,641 | | |
| Deferred inflows of resources | | | | | | |
| Operations and maintenance expense | | 1,731 | | 1,800 | | |
| Capital costs | | 1,104,215 | | 839,529 | | |
| Power sales credit due to Water Contractors | | 111,636 | | 133,250 | | |
| Deferral of resources related to pensions | | 40,444 | | 13,472 | | |
| Deferral of resources related to OPEB | | 230,986 | | 81,733 | | |
| Total deferred inflows of resources | | 1,489,012 | | 1,069,784 | | |
| Total liabilities and deferred inflows of resources | | 7,520,045 | | 6,786,425 | | |
| Net position: | | _ | | | | |
| Net investment in capital assets | | 783,286 | | 942,618 | | |
| Restricted for: | | 705,200 | | 742,010 | | |
| Debt service and plant replacements | | 214,513 | | 197,363 | | |
| SWP related activities | | 168,550 | | 54,057 | | |
| Total net position | | 1,166,349 | - | 1,194,038 | | |
| • | | | | | | |
| Total liabilities, deferred inflows of resources, and net position | \$ | 8,686,394 | \$ | 7,980,463 | | |

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



Statements of Revenues, Expenses, and Changes in Net Position (amounts in thousands) Fiscal Year Ended June 30, 2019 2018 (As restated) Operating revenues: Water supply 1,010,751 1,076,238 Power sales 96,308 88,148 Federal and State reimbursements 42.593 42.127 1,206,513 Total operating revenues 1,149,652 Operating expenses: Operations and maintenance 645,191 555,163 290,908 342,115 Purchased power Depreciation and amortization 94,191 80,101 Operating expenses recovered, net (151,926)(64,454)Total operating expenses 878,364 912,925 271,288 293,588 Income from operations Nonoperating revenue (expenses): Capital revenues recovered (deferred), net (334,870)(294,864)Interest expense (116,481)(105,429)Investment income, net 22,482 15,353 Other revenues (expenses), net 129,892 42,493 Total nonoperating revenues (expenses) (298,977)(342,447)Change in net position (27,689)(48,859)Net position, beginning of year, as restated 1,194,038 1,242,897 1,166,349 1,194,038 Net position, end of year

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

| Statements of Cash Flows | | (amo | unts in | n thousands) | |
|--------------------------------------------------------------------------------------------------------|----------------------------|-----------|---------|----------------------|--|
| | Fiscal Year Ended June 30, | | | | |
| | | 2019 | () | 2018 As restated) | |
| Cash flows from operating activities: | | | | | |
| Receipts from customers | \$ | 1,092,325 | \$ | 1,239,890 | |
| Payments to employees for services | | (392,703) | | (374,955) | |
| Payments to suppliers | | (478,709) | | (409,403) | |
| Other receipts | | 129,892 | | 42,493 | |
| Net cash provided by operating activities | | 350,805 | | 498,025 | |
| Cash flows from capital and related financing activities: | | | | | |
| Proceeds from issuance of revenue obligation | | | | | |
| bonds including premium | | 405,805 | | - | |
| Payments to advance refund bond | | - | | (39,760) | |
| Principal payments on long-term debt | | (155,375) | | (172,805) | |
| Commercial paper notes issued | | 585,075 | | 500,484 | |
| Principal payments on commercial paper notes | | (475,763) | | (66,976) | |
| Interest payments on long-term debt | | (89,223) | | (79,462) | |
| Additions to utility plant and construction work in progress | | (649,078) | | (728,107) | |
| Net cash used by capital and related financing activities | | (378,559) | | (586,626) | |
| Cash flows from investing activities: | | | | | |
| Cash received from investment earnings | | 21,034 | | 14,160 | |
| Proceeds of investments matured | | 252,618 | | 211,911 | |
| Purchases of investments | | (252,772) | | (202,547) | |
| Loan payments from local water agencies | | 819 | | 1,010 | |
| Net cash provided by investing activities | | 21,699 | | 24,534 | |
| Net increase (decrease) in cash and cash equivalents | | (6,055) | | (64,067) | |
| Cash and cash equivalents, beginning of year | | 878,679 | | 942,746 | |
| Cash and cash equivalents, end of year | \$ | 872,624 | \$ | 878,679 | |
| Noncash capital and related financing activities: | | | | | |
| Amortization of bond premium/discount | \$ | 27,287 | \$ | 50,505 | |
| Amortization of deferred loss on refunding | * | (10,302) | 7 | (10,151) | |
| Principal retirements of long-term debt on proceeds received from | | (:3/002) | | (.0,.0.) | |
| | | | | | |
| issuance of Series AZ and Series AX & AY Water System Revenue | | | | | |
| issuance of Series AZ and Series AX & AY Water System Revenue Bonds for 2019 and 2018, respectively | | 109,080 | | 531,255 | |

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

| Statements of Cash Flows (continued) | | (amounts in thousands) | | | | |
|---------------------------------------------------------------------------------------------|----------------------------|------------------------|----------|----------------------|--|--|
| | Fiscal Year Ended June 30, | | | | | |
| | | 2019 | (A | 2018 As restated) | | |
| Reconciliation to the statement of net position: | | | | | | |
| Cash and cash equivalents | \$ | 708,971 | \$ | 731,382 | | |
| Restricted assets: | | | | | | |
| Cash and cash equivalents restricted for plant replacements | | 37,779 | | 37,408 | | |
| Cash and cash equivalents restricted for debt service | | | | | | |
| (net of \$50,860 and \$50,066 of U.S. Agency securities | | | | | | |
| for 2019 and 2018, respectively) | | 91,520 | | 75,976 | | |
| Cash and cash equivalents on deposit with revenue bond trustee | | 34,354 | | 33,913 | | |
| Cash and cash equivalents | \$ | 872,624 | \$ | 878,679 | | |
| | | 2019 | (4 | 2018 As restated) | | |
| Reconciliation of income from operations to net cash provided by operating activities: | ¢ | 271 200 | \$ | 202 E00 | | |
| Income from operations | \$ | 271,288 | <u> </u> | 293,588 | | |
| Adjustment to reconcile income from operations to net cash provided by operating activities | | | | | | |
| Depreciation expense | | 94,191 | | 80,101 | | |
| Other receipts | | 129,892 | | 42,493 | | |
| Other non current liabilities | | 72,646 | | 218,888 | | |
| (Increase) decrease in deferred charges and credits, net | | 18,369 | | (866,590) | | |
| Changes in assets and liabilities: | | | | | | |
| (Increase) decrease in receivables | | (45,123) | | 9,535 | | |
| (Increase) decrease in inventories | | 545 | | (427) | | |
| Increase in due from federal government | | (166,769) | | (18,383) | | |
| Increase in accounts payable, accrued vacation, and | | | | | | |
| pollution remediation | | 41,395 | | 61,652 | | |
| Increase (decrease) in pension & OPEB | | (141,626) | | 650,522 | | |
| Decrease in due to other state funds | | (2,238) | | (14,233) | | |
| Increase in proceeds due to Water Contractors | | 78,235 | | 40,879 | | |
| Total adjustments | | 79,517 | | 204,437 | | |
| | | | | | | |

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



NOTES TO FINANCIAL STATEMENTS

1. Reporting Entity

The State Water Resources Development System (System), administered by the Department of Water Resources (DWR), includes the State Water Project (SWP), the Davis-Grunsky Act Program, and the San Joaquin Drainage Implementation Program. It was constructed as the result of initial legislation in 1951 and subsequent legislation in the 1960s providing various financing mechanisms. The funds of the System are a part of the primary government of the State of California and are reported as a proprietary fund and business-type activity (non-governmental cost funds) within the State of California's financial statements. The SWP is a system of dams, water storage facilities, aqueducts, pumping stations and electric generation facilities, which have been constructed for purposes of developing firm water supply and conveying water to areas of need within the State and providing flood control, recreation, fish and wildlife enhancement, and hydroelectric power. The System has entered into Water Supply Contracts with 29 customers (Water Contractors) in order to recover substantially all System costs. The 29 Water Contractors are principally located in the San Francisco Bay Area, the Central Coast, the Central Valley and Southern California and their service areas encompass approximately 25% of the State's land area and, approximately 69% of its population and 8% of the United States' entire population, including Puerto Rico.

The operations of the System are separate and distinct from other operations of the State of California. The accompanying financial statements only reflect the activity of the System and do not purport to, and do not, present fairly, the financial position of the State of California and the changes in its financial position and cash flows, where applicable, in conformity with accounting principles generally accepted in the United States of America. The System is accounted for as an enterprise fund comprised of two segments, the Burns-Porter Act and the Central Valley Project Act, and is financed and operated in a manner similar to that of a private business enterprise. The System uses the economic resources measurement focus and the accrual basis of accounting. Under this method, revenues are recorded when earned and expenses are recorded at the time liabilities are incurred.

2. Summary of Significant Accounting Policies

DWR is a department within the California Natural Resources Agency of the State, and is responsible for the planning, construction, and operation of the System's SWP. The System's operating revenues include water supply, power sales, and Federal and State Reimbursements. Under the Water Supply Contracts, the Water Contractors are required to pay to the System amounts calculated and billed as operating revenues, thus returning to the System substantially all annual operating costs. These operating expenses are comprised of the costs of sales and services, depreciation and amortization of capital assets, power and transmission costs, and administrative expenses.

Revenues from the Water Contractors pledged to the payment of debt, and net investment income are related to capital and financing activities and are defined as non-operating revenues and expenses.

UTILITY PLANT

Utility plant is recorded at historical cost. Historical cost includes labor, materials, and indirect items such as engineering, supervision, transportation, and interest on borrowed funds incurred during construction. Repairs, maintenance, and minor purchases of equipment are expensed as incurred.

DEPRECIATION

Depreciation is provided on a straight-line basis over the estimated useful lives of the various classes of utility plant, as follows:

| Various Classes of Utility Plant | Estimated Useful Lives |
|-------------------------------------------|------------------------|
| Aqueducts | 80 - 100 years |
| Dams and reservoirs | 85 years |
| Environmental preservation and mitigation | 50 years |
| Power plants | 30 - 50 years |
| Pumping plants | 30 - 40 years |
| Fish protection | 35 - 36 years |
| Facilities | 20 - 30 years |
| Equipment, computers, and vehicles | 3 - 5 years |
| General | 1 - 20 years |

The System's intangible assets, consisting of software, land use and legal rights, costs associated with the Federal Energy Regulatory Commission (FERC) licenses, and compliance instruments are included in Utility Plant in Service (UPIS). Software costs are amortized on a straight-line basis over a five to ten-year useful life. Easements are land use rights and considered as either permanent or temporary. Permanent easements have an indefinite useful life and are nondepreciable while temporary easements are being amortized over a five-year useful life, unless otherwise specified in the purchase agreement.

A central element of California's Global Warming Solutions Act (AB 32) requires the System to obtain and surrender emission credits and allowances. Currently, these compliance instruments consist of Green House Gas (GHG) emission

allowances for the System's share of compliance cost for the Lodi Energy Center (LEC). Since the economic benefit is not diminished until the credits are consumed, they will not be amortized. The credits will be included in UPIS and charged to expense as they are surrendered.

CASH AND CASH EQUIVALENTS

Cash and cash equivalents, for purposes of the statement of cash flows, includes cash on hand, restricted cash for plant replacements, restricted cash for debt service, and restricted cash on deposit with revenue bond trustee. Such amounts include deposits in the State of California Pooled Money Investment Account (PMIA), Surplus Money Investment Fund (SMIF), and instruments with original maturities of three months or less. Cash and cash equivalents do not include U.S. Government and Agency securities with original maturities of more than three months.

RESTRICTED CASH AND INVESTMENTS

Cash and cash equivalents on deposit with revenue bond trustee consists of debt service reserve funds held with a major national bank for the Series 1973 Devil Canyon - Castaic Facilities bonds and amounts held for Reid Gardner Unit 4 contingencies under the termination agreement.

Cash and cash equivalents with the State Treasurer for plant replacements and debt service are restricted as required by the provisions of the Water Supply Contracts and bond resolutions. Restricted funds consist of investments of the same type as those described below.

CASH AND INVESTMENTS

Cash not required for current use, including restricted cash, is invested in SMIF, which is stated at fair value. The weighted average to maturity of PMIA investments was 173 days as of June 30, 2019 and 193 days as of June 30, 2018. The total amount of deposits in SMIF was \$43.2 billion as of June 30, 2019 and \$36.4 billion as of June 30, 2018. The Pooled Money Investment Board (PMIB) has oversight responsibility for SMIF. The Board consists of three members as designated by state statute which shall consist of the State Controller, State Treasurer and Director of Finance. The value of the pool shares in SMIF, which may be withdrawn, is determined on an amortized cost basis, which is different than the fair value of the System's portion of the pool. PMIA funds are on deposit with the State's Centralized Treasury System and are not SEC-registered, but are managed in compliance with the California Government Code and State policy.

The State's Investment Policy for the PMIA, which is managed by the State Treasurer's Office, sets forth the permitted investment vehicles, liquidity parameters and maximum maturity of investments. These investments consist of U.S. government securities, securities of federally-sponsored agencies, U.S. corporate bonds, interest bearing time deposits in California banks, prime-rated commercial paper, bankers' acceptances, negotiable certificates of deposit, repurchase and reverse repurchase agreements. The PMIA policy limits the use of reverse repurchase agreements subject to limits of no more than 10% of PMIA. The PMIA does not invest in leveraged products or inverse floating rate securities.

The System is authorized by statute to invest in the same types of investment vehicles permitted by the State's Centralized Treasury System. U.S. Treasury and agency debt securities are carried at fair value. Because investing is not a core part of the System's mission, the Systems determines that the disclosure related to these investments only need to be disaggregated by major type. Fair value is the amount at which a financial instrument could be exchanged in a current transaction between willing parties, and it is determined from published data (quoted prices) provided by the exchanges, computerized pricing sources, the National Association of Securities Dealers' National Market System, securities custodians and other authoritative sources. Investments made by the System during the year ended June 30, 2019 are of a similar nature as those held at June 30, 2018.

ADVANCES TO OTHER STATE FUNDS

Advances to Other State Funds represent the System's advances to DWR's internal service fund that functions as a revolving working capital account for the System. The other Advances to Other State Funds represent the System's advances to the Department of General Services to fund the Rio Vista Science Center, a joint venture between DWR and the United States Fish and Wildlife Services, and to fund the Joint Operations Center.

RECEIVABLES

Receivables include amounts due from Water Contractors, organizations that purchase power from the System, Federal and State governments, accrued interest from financial institutions, and other miscellaneous customers.

INVENTORIES

The System carries two types of inventories, operating supplies and fuel. The method of accounting used for operating supplies is first-in, first-out inventory valuation. Fuel station tanks are located throughout the System, and fuel inventory is accounted for using the moving average cost method. Components of inventories at June 30, 2019 and 2018 were as follows:

| Inventories | | | | |
|--------------------|----|-------|----|-------|
| | : | 2019 | : | 2018 |
| Operating supplies | \$ | 4,608 | \$ | 5,080 |
| Fuel | | 285 | | 357 |
| Total | \$ | 4,893 | \$ | 5,437 |

AMOUNTS RECOVERABLE THROUGH FUTURE BILLINGS

The System records unbilled costs as assets recoverable through future billings under the Water Supply Contracts. These costs include operations and maintenance costs and capital costs.

Unamortized project costs represent abandoned utility plant costs and certain research and development expenses that are recoverable through future billings to the Water Contractors under the terms of the Water Supply Contracts.

Unbilled interest incurred on unrecovered capital costs are classified as other long-term assets until billed under the terms of the Water Supply Contracts. Unbilled interest incurred represents the System's unrecovered interest since inception, recalculated annually at the System's cumulative weighted average cost of borrowing (Project Interest Rate). The System's Project Interest Rate was 4.61% for the years ended June 30, 2019 and 2018.

REGULATED OPERATIONS

The System has the authority to establish the level of rates necessary to recover generally all System costs, including debt service. As a regulated entity, the System's financial statements are prepared in accordance with the standards established by the Governmental Accounting Standards Board (GASB). The System is considered to be a Regulated Operation pursuant to GASB Statement No. 62, which requires that the effects of the rate-making process are recorded in the financial statements. Accordingly, certain expenses and credits, normally reflected in the change in net position, as incurred, are recognized when included in rates and recovered from or refunded to customers, the state, and the federal government. The System records various regulatory assets and credits to reflect rate-making actions of management.

DEFERRED OUTFLOWS AND INFLOWS OF RESOURCES

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

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

Deferred Outflows of Resources

Deferral of loss on refunding represents the difference between the reacquisition price and the net carrying amount of the refunded debt. The unamortized balance of deferred loss on refunding was \$138.9 million as of June 30, 2019 and \$149.3 million as of June 30, 2018. The \$10.4 million decrease is due to the scheduled annual amortization expense of \$10.3 million, and \$143 thousand unamortized gain resulting from the current year refunding of Series AZ.

The System's allocated share of the deferred outflows of resources related to pensions was \$133 million and \$230.4 million as of June 30, 2019 and 2018, respectively. See Note 8 for additional information.

The System's allocated share of the deferred outflows of resources related to OPEB was \$24.6 million and \$21.3 million as of June 30, 2019 and 2018, respectively. See Note 9 for additional information.

Deferred Inflows of Resources

Deferred operations and maintenance expenses represent operations and maintenance revenues collected in excess of operations and maintenance expenses incurred resulting from specific terms of the Water Supply Contracts and timing differences. The System had an ending balance of \$1.7 million and \$1.8 million in deferred inflows of operations and maintenance expenses as of June 30, 2019 and 2018, respectively.

Since the capital component of revenue allows for the recovery of capital costs plus interest related to the construction of the System's facilities, these revenues are presented as deferred inflows of resources. As these facilities are depreciated over time, the deferred capital costs are recovered. The System had an ending balance of \$1,104.2 million and \$839.5 million in deferred inflows of capital costs as of June 30, 2019 and 2018, respectively.

The power sales credit due to Water Contractors arises from revenue collected for the power generated by the Hyatt-

Thermalito Power Plant (HTPP). The power sales credit is amortized over time by a credit issued to the Water Contractors through the Delta Water Charge. The power sales credit decreased by \$21.6 million to an ending balance of \$111.6 million in fiscal 2019 compared to \$133.2 million in fiscal 2018.

The System's allocated share of the deferred inflows of resources related to pensions was \$40.4 million and \$13.5 million as of June 30, 2019 and 2018, respectively. See Note 8 for additional information.

The System's allocated share of the deferred inflows of resources related to OPEB was \$231 million and \$81.7 million as of June 30, 2019 and 2018, respectively. See Note 9 for additional information.

UNEARNED REVENUE - STATE AND FEDERAL CAPITAL RECOVERY

Unearned revenue represents reimbursement payments made by the State and Federal governments for their share of the System's capital costs in excess of the related depreciation expense recognized in the statement of revenues, expenses, and changes in net position.

ADVANCES FOR PLANT REPLACEMENTS

Advances for plant replacements represent billings under the terms of the Water Supply Contracts for future replacement of certain System assets. Receipts from such billings are restricted. Costs of plant replacements are charged to this reserve, as incurred.

BOND ISSUANCE DISCOUNTS AND PREMIUMS

Bond issuance discounts and premiums are reflected as a reduction/increase to the carrying value of the bonds outstanding and are amortized over the lives of the related debt instruments.

NET POSITION

The System classifies its net position into two components: net investment in capital assets and restricted.

Net investment in capital assets includes utility plant in service, net of accumulated depreciation, construction work in progress, unamortized project costs, less debt related to capital assets, unearned revenue, and other assets and liabilities related to the recovery of utility plant. Net investment in capital assets were \$783.3 million and \$942.6 million at June 30, 2019 and 2018, respectively.

The restricted component of net position is for debt service and plant replacements, and State Water Project (SWP) related activities. Net position restricted for debt service represents reserves held by the System as required by its bond resolutions. Net position restricted for plant replacements represents reserves held by the System for future replacement of certain System's asset. Net position restricted for SWP related activities represents the requirements of legislation that created the System and authorized the construction of the SWP, to use the System's net position solely in support of the SWP, the Davis-Grunsky Act Program, and the San Joaquin Drainage Implementation Program. Restricted net position totaled \$383.1 million and \$251.4 million at June 30, 2019 and 2018, respectively.

REVENUES

The cost of providing services from the System is required to be recovered through user charges and other reimbursements. Under the terms of the Water Supply Contracts, the System granted the Water Contractors rate management reductions of approximately \$40.5 million for the years ended June 30, 2019 and 2018. Rate management reductions are reductions in capital related billings to the Water Contractors.

Revenues under the Water Supply Contracts are recognized when billings are due and payable. The billings cover debt service requirements, an additional 25% of revenue bond debt service to satisfy certain bond covenants, current operations and maintenance costs, and under collections. The Water Supply Contracts provide that the 25% portion of the billings collected for the purpose of satisfying certain bond covenants be refunded in the subsequent year. These billings, which totaled \$58.9 million and \$56.3 million for the years ended June 30, 2019 and 2018, respectively, are included as Proceeds Due to Water Contractors as presented in the Supplementary Information Debt Service Coverage. The Water Contractors received bond cover refunds of \$56.3 million for both fiscal years 2019 and 2018.

Revenues from the sale of surplus power are recognized as the power is delivered.

The Federal government reimburses the System for certain operating and capital costs incurred by the System for flood control purposes. In addition, the Federal government reimburses the System for the Federal government's 39.90% share of the operating costs and 45% share of the capital costs of the San Luis joint use facilities and other water facilities. The State of California also reimburses the System for certain operating and capital costs incurred by the System for facilities located within the SWP. Revenue from the State and Federal government in excess of their share of the related depreciation expense is deferred until the related depreciation expense is recognized.

COMPENSATED ABSENCES

Compensated absences represent employees' vested unpaid vacation, annual leave, and other similar paid leave programs which are eligible for payment upon separation from state service. Unused sick-leave balances are not included in the compensated absences as they do not vest to employees.

PENSIONS

For purposes of measuring the net pension liability, deferred outflows of resources and deferred inflows of resources related to pensions, and pension expense, information about the fiduciary net position of the System's portion of the California Public Employees' Retirement System (CalPERS) pension plan and additions to or deductions from the plan's fiduciary net position have been determined on the same basis as they are reported by CalPERS. For this purpose, benefit payments (including refunds of employee contributions) are recognized when due and payable in accordance with the benefit terms. Investments are reported at fair value.

OTHER POSTEMPLOYMENT BENEFIT (OPEB)

For purposes of measuring the net OPEB liability, deferred outflows of resources and deferred inflows of resources related to OPEB, and OPEB expense, information about the fiduciary net position of the System's portion of the CalPERS OPEB plan and additions to or deductions from the plan's fiduciary net position have been determined on the same

basis. For this purpose, benefit payments are recognized when due and payable in accordance with the benefit terms. Investments are reported at fair value.

SEGMENTS

The System has two segments, which are defined under governmental accounting standards, as an identifiable activity for which one or more revenue bonds or other revenue-backed debt instruments are outstanding:

- 1. Activities Allowed Under the Burns-Porter Act This segment accounts for the costs to build, operate, and maintain the facilities financed by General Obligation (GO) bonds as authorized by the Burns-Porter Act. Transportation and conservation revenues from the Water Contractors are recorded in this segment as well as power sales and reimbursements from Federal and State governments and interest on investments. Expenses are limited to operations and maintenance of the SWP constructed with GO bond proceeds, power purchases, replacements, and debt service on the GO bonds.
- 2. Activities Allowed Under the Central Valley Project Act This segment accounts for the costs to build, operate, and maintain the facilities financed by the Central Valley Project Water System revenue bonds. Capital and operating revenues from the Water Contractors for projects financed by revenue bond proceeds are recorded in this segment, as well as commercial paper sales, reimbursements from Federal and State governments for the San Luis Dam and Reservoir, Suisun Marsh, recreation costs, and interest on investments. Expenses are limited to the construction and operation of SWP facilities constructed with revenue bond proceeds and power facilities and debt service payments on the revenue bonds.

RESTATEMENT

Certain amounts presented in the prior years have been restated in order to conform to the current year's presentation.

The System determined it had overcharged certain capital billings to the State Water Contractors from the years 2001 to 2018 and has accrued the refund of such overcharges.

The System has capitalized costs related to the California WaterFix. Such costs were previously expensed and reported as deferred inflows of resources in operations and maintenance expense.

In 2006, the System made an accounting change to defer all net income/(loss) as a result of an interpretation of the language in the Monterey Amendment. It has since been determined that the System should be recognizing net income/(loss) as a result of the return on the initial State's Equity contributions less any costs not recovered from third parties.

Accordingly, the System calculated its operating deferrals, capitalization of assets, and the recognition of net income/ (loss), and has made prior period adjustments and reclassifications as follows:

| Prior Period Adjustments | | | | | | | |
|-------------------------------------------------------------------------------|-----------------------------------------------|-------------|-----------------------------------------|--------------------------------------------|-----------------------------------|---------------------|-----------------------------------------|
| Statements of Net Position | Previously Reported at June 30, 2017 | Adjustments | June 30, 2017 (After Adjustments) | Previously Reported at June 30, 2018 | Adjustments Rolled- Forward | 2018 Adjustments | June 30, 2018 (After Adjustments) |
| Amounts recoverable through future billings under the water supply contracts: | | | | | | | |
| Operations and maintenance expense | \$ 202,725 | \$ 28,434 | \$ 231,159 | \$ 956,860 | \$ 28,434 | \$ (63,411) | \$ 921,883 |
| Capital credit due from water contractors | 348,845 | (348,845) | - | 372,608 | (348,845) | (23,763) | - |
| Unamortized project costs | 318,574 | (126,824) | 191,750 | 220,458 | (126,824) | 93,681 | 187,315 |
| Total amounts to be recovered through future billings | 870,144 | (447,235) | 422,909 | 1,549,926 | (447,235) | 6,507 | 1,109,198 |
| Utility plant: | | | | | | | |
| Construction work in progress | 1,095,997 | 244,589 | 1,340,586 | 1,396,750 | 244,589 | 11,666 | 1,653,005 |
| Current liabilities: | | | | | | | |
| Proceeds due to water contractors | (95,350) | (74,871) | (170,221) | (118,940) | (74,871) | (17,288) | (211,099) |
| Deferred inflows of resources: | | | | | | | |
| Capital costs | (952,245) | 314,986 | (637,259) | (1,104,772) | 314,986 | (49,743) | (839,529) |
| Net position: | | | | | | | |
| Net investment in capital assets Restricted for: | (664,533) | (83,906) | (748,439) | (826,871) | (83,906) | (31,841) | (942,618) |
| Restricted for: Debt service and plant replacements | (347,006) | 46,437 | (300,569) | (181,194) | 46,437 | 80,700 | (54,057) |
| SWP related activities | (193,889) | - | (193,889) | (197,363) | - | - | (197,363) |

| Prior Period Adjustments | | | | | | |
|---------------------------------------------------------------|--------------------------------------------|--------|-------------|----|-----------------------------------------|--|
| Statements of Revenues, Expenses, and Changes in Net Position | Previously Reported at June 30, 2018 | | Adjustments | | June 30, 2018 (After Adjustments) | |
| Operating expenses | | | | | | |
| Operations and maintenance | \$ 566,6 | 520 \$ | (11,457) | \$ | 555,163 | |
| Operating expenses recovered, net | (88,5 | 72) | 24,118 | | (64,454) | |
| Nonoperating revenue (expenses) | | | | | | |
| Capital revenues recovered (deferred), net | (275,7 | 46) | (19,118) | | (294,864) | |
| Other revenues (expenses), net | 59,5 | 573 | (17,080) | | 42,493 | |
| Net position, beginning of year | 1,205,4 | 128 | 37,469 | | 1,242,897 | |

COMPLIANCE AND ACCOUNTABILITY

Per the System's continuing disclosure certificates and continuing disclosure agreement, the System has an obligation to meet specific continuing disclosures. The System's annual report and notices of material events must be filed by the System with the Municipal Securities Rulemaking Board (the MSRB) within 270 days after the System's fiscal year end. The System had filed the annual report for fiscal 2019 on the date hereof, but the annual report did not include financial statements as required per the continuing disclosure certificates and continuing disclosure agreement. The System will file its 2019 financial statements promptly on the MSRB website upon its completion.

3. Interests in Jointly Owned Facilities

At June 30, 2019 and 2018, the System owned the following undivided interests in jointly-owned facilities that are recorded in UPIS:

| Interests | in .l | loint- | Use | Facil | lities |
|-----------|-------|--------|-----|-------|--------|
| | | | | | |

| | | | System's Portion Based on % Owned | | | | | |
|-----------------------------------|----------------|----------------------|------------------------------------------------|------------|--------------------|-----------|--|--|
| | Joint Party | % Owned by System | Utility Plant/Construction Work in Progress | | Accum Depreciation | | | |
| | | | 2019 | 2018 | 2019 | 2018 | | |
| San Luis Joint-Use Facilities | USBR | 55% | \$ 298,126 | \$ 278,031 | \$ 64,782 | \$ 57,531 | | |
| SWP Hydropower Facilities License | LADWP | 50% | \$ 4,696 | \$ 2,718 | \$ - | \$ - | | |

The amounts above include the System's share of direct costs related to constructing the facilities. Each participant provides its own financing for the jointly-owned facility.

DWR is the operator of the San Luis Joint-Use Facilities. All of the operating expenses related to these facilities are included as operating expenses in the statement of revenues, expenses, and changes in net position. The Federal government is billed for its share of the operating expenses and these billings are included as operating revenues in the statement of revenues, expenses, and changes in net position.

4. Utility Plant

The summarized activity of the System's utility plant during 2019 is presented below:

| Utility Plant June 30, 2019 | | | | |
|-------------------------------------------------|---------------------------------------|-------------------------------|-------------------------------|-------------------|
| | Beginning Balance (As restated) | Transfers and Additions | Transfers and Deletions | Ending Balance |
| Nondepreciable Utility Plant: | | | | |
| Land | \$ 162,457 | \$ 26,508 | \$ - | \$ 188,965 |
| Construction work in progress (CWIP) | 1,653,005 | 611,125 | (185,797) | 2,078,333 |
| Land use rights | 12,458 | 2 | - | 12,460 |
| Other intangible assets | 98,981 | 3,934 | (3,475) | 99,440 |
| Total nondepreciable utility plant | 1,926,901 | 641,569 | (189,272) | 2,379,198 |
| Depreciable Utility Plant: | | | | |
| Aqueducts | 2,183,839 | 646 | (1,822) | 2,182,663 |
| Dams & reservoirs | 817,041 | 36 | 1,822 | 818,899 |
| Power plants | 523,529 | 127,201 | - | 650,730 |
| Pumping plants | 1,018,627 | 6,981 | - | 1,025,608 |
| Environmental preservation and mitigation | 67,797 | - | - | 67,797 |
| Fish protection | 35,544 | - | - | 35,544 |
| Facilities | 301,157 | 3,639 | - | 304,796 |
| Equipment and other depreciable assets | 75,214 | 10,662 | (3,178) | 82,698 |
| Computer software | 27,206 | 143 | - | 27,349 |
| Land use rights | 272 | - | - | 272 |
| Other intangible assets | 12,005 | - | - | 12,005 |
| General | 162,619 | 47,294 | - | 209,913 |
| Total depreciable utility plant | 5,224,850 | 196,602 | (3,178) | 5,418,274 |
| Less: accumulated depreciation and amortization | | | | |
| Aqueducts | (640,883) | (24,986) | - | (665,869) |
| Dams & reservoirs | (389,695) | (10,182) | - | (399,877) |
| Power plants | (317,132) | (11,913) | - | (329,045) |
| Pumping plants | (612,498) | (15,358) | - | (627,856) |
| Environmental preservation and mitigation | (37,746) | (1,366) | - | (39,112) |
| Fish protection | (31,275) | (729) | - | (32,004) |
| Facilities | (39,296) | (10,031) | - | (49,327) |
| Equipment and other depreciable assets | (59,731) | (7,216) | 3,175 | (63,772) |
| Computer software | (25,177) | (607) | - | (25,784) |
| Land use rights | (272) | - | - | (272) |
| Other intangible assets | (6,008) | (1,199) | - | (7,207) |
| General | (25,781) | (10,604) | - | (36,385) |
| Total accumulated depreciation and amortization | (2,185,494) | (94,191) | 3,175 | (2,276,510) |
| Net depreciable plant | 3,039,356 | 102,411 | (3) | 3,141,764 |
| Total Utility Plant - net | \$ 4,966,257 | \$ 743,980 | \$ (189,275) | \$ 5,520,962 |

The summarized activity of the System's utility plant during 2018 is presented below:

| Utility Plant June 30, 2018 | | | | |
|-------------------------------------------------|---------------------------------------|-------------------------------|-------------------------------|------------------------------------|
| | Beginning Balance (As restated) | Transfers and Additions | Transfers and Deletions | Ending Balance (As restated) |
| Nondepreciable Utility Plant: | | | | |
| Land | \$ 156,934 | \$ 5,523 | \$ - | \$ 162,457 |
| Construction work in progress (CWIP) | 1,340,586 | 717,621 | (405,202) | 1,653,005 |
| Land use rights | 11,767 | 691 | - | 12,458 |
| Other intangible assets | 99,240 | | (259) | 98,981 |
| Total nondepreciable utility plant | 1,608,527 | 723,835 | (405,461) | 1,926,901 |
| Depreciable Utility Plant: | | | | |
| Aqueducts | 2,126,713 | 57,126 | - | 2,183,839 |
| Dams & reservoirs | 729,521 | 87,520 | - | 817,041 |
| Power plants | 477,044 | 46,485 | - | 523,529 |
| Pumping plants | 850,475 | 168,152 | - | 1,018,627 |
| Environmental preservation and mitigation | 67,797 | - | - | 67,797 |
| Fish protection | 35,544 | - | - | 35,544 |
| Facilities | 298,295 | 2,862 | - | 301,157 |
| Equipment and other depreciable assets | 82,526 | 4,451 | (11,763) | 75,214 |
| Computer software | 27,108 | 98 | - | 27,206 |
| Land use rights | 272 | - | - | 272 |
| Other intangible assets | 12,005 | - | - | 12,005 |
| General | 119,562 | 43,057 | - | 162,619 |
| Total depreciable utility plant | 4,826,862 | 409,751 | (11,763) | 5,224,850 |
| Less: accumulated depreciation and amortization | | | | |
| Aqueducts | (616,435) | (24,448) | - | (640,883) |
| Dams & reservoirs | (380,536) | (9,159) | - | (389,695) |
| Power plants | (306,011) | (11,121) | - | (317,132) |
| Pumping plants | (600,979) | (11,519) | - | (612,498) |
| Environmental preservation and mitigation | (36,380) | (1,366) | - | (37,746) |
| Fish protection | (30,545) | (730) | - | (31,275) |
| Facilities | (29,418) | (9,878) | - | (39,296) |
| Equipment and other depreciable assets | (65,537) | (5,939) | 11,745 | (59,731) |
| Computer software | (24,534) | (643) | - | (25,177) |
| Land use rights | (272) | - | - | (272) |
| Other intangible assets | (4,806) | (1,202) | - | (6,008) |
| General | (21,685) | (4,096) | - | (25,781) |
| Total accumulated depreciation and amortization | (2,117,138) | (80,101) | 11,745 | (2,185,494) |
| Net depreciable plant | 2,709,724 | 329,650 | (18) | 3,039,356 |
| Total Utility Plant - net | \$ 4,318,251 | \$ 1,053,485 | \$ (405,479) | \$ 4,966,257 |

5. Investments

The System maintains cash deposits with the State's Surplus Money Investment Fund (SMIF), which is part of the Pooled Money Investment Account (PMIA). The State Treasurer manages the PMIA in accordance with various provisions of the California Water Code and the State's investment policies. The State Treasurer also acts as trustee for the System's revenue bonds, and manages the System's investments. Investment of the System's funds is administered in accordance with California Government Code, State's policies, and applicable provisions of the Central Valley Project Act bond resolutions.

The System follows GASB Statement No. 40, Deposit and Investment Risk Disclosures. This statement requires the disclosure of five types of risks: interest, credit, custodial, concentration, and foreign currency. Additional disclosures required by GASB No. 40 for cash deposits and investments within the State's centralized treasury system can be found in the State of California's Comprehensive Annual Financial Report.

The System categorizes its fair value measurements within the fair value hierarchy established by generally accepted accounting principles (GAAP) and in accordance with GASB Statement No. 72. The hierarchy is based on the valuation inputs used to measure the fair value of the asset. Level 1 inputs are quoted prices in active markets for identical assets; Level 2 inputs are significant other observable inputs; and Level 3 inputs are significant unobservable inputs. Deposits and withdrawals are made on the basis of \$1 and not fair value. Accordingly, the System's proportionate share of investments in the State Treasury at June 30, 2019 of \$838.3 million is an uncategorized input not defined as a Level 1, Level 2, or Level 3 input.

The following is a summary of the System's cash and investments by percentage of total, their related credit ratings and by fair value measurement as of June 30, 2019:

| Cash and Investments at June 30, 201 | 9 | | | | | | | |
|---------------------------------------------------|------------|------------------------|------------------|----------------|-----------------|------------|----------------------------------------------------------------------------------|--|
| | | | | Maturities | | | | |
| | % of Total | Credit Rating (S&P) | Under 30 Days | 31-180 Days | 181-365 Days | 6/30/2019 | Using Quoted Prices in Active Markets for Identical Assets (Level 1) | |
| Investments by fair value level: | | | | | | | | |
| Federal Home Loan Bank | 6% | AA+ | \$ - | \$ 50,860 | \$ - | \$ 50,860 | \$ 50,860 | |
| Total investment by fair value level | | | \$ - | \$ 50,860 | \$ - | \$ 50,860 | \$ 50,860 | |
| Investments not subject to fair value level: | | | | | | | | |
| Surplus Money Investment Fund | 90% | Not rated | - | - | 838,270 | 838,270 | | |
| Cash and Investments held outside State Treasury: | | | | | | | | |
| Money Market Funds | 4% | AAA | 34,354 | - | - | 34,354 | | |
| Total cash and investments | | | \$ 34,354 | \$ 50,860 | \$ 838,270 | \$ 923,484 | | |

The following is a summary of the System's cash and investments by percentage of total, their related credit ratings and by fair value measurement as of June 30, 2018:

| Cash and Investments at June 30, 2018 | | | | | | | | | |
|---------------------------------------------------|------------|------------------------|------------------|----------------|---------------------------|------------|----------------------------------------------------------------------------------|--|--|
| | | | | Mat | Fair Value Measurement | | | | |
| | % of Total | Credit Rating (S&P) | Under 30 Days | 31-180 Days | 181-365 Days | 6/30/2018 | Using Quoted Prices in Active Markets for Identical Assets (Level 1) | | |
| Investments by fair value level: | | | | | | | | | |
| U.S. Treasury Notes | 5% | AA+ | \$ 50,066 | \$ - | \$ - | \$ 50,066 | \$ 50,066 | | |
| Total investment by fair value level | | | \$ 50,066 | \$ - | \$ - | \$ 50,066 | \$ 50,066 | | |
| Investments not subject to fair value level: | | | | | | | | | |
| Surplus Money Investment Fund | 91% | Not rated | - | - | 844,766 | 844,766 | | | |
| Cash and Investments held outside State Treasury: | | | | | | | | | |
| Money Market Funds | 4% | AAA | 33,913 | - | - | 33,913 | | | |
| Total cash and investments | | | \$ 83,979 | \$ - | \$ 844,766 | \$ 928,745 | | | |

Interest Rate Risk: Interest rate risk is the risk that the value of fixed income securities will decline because of rising interest rates. The prices of fixed income securities with a longer time to maturity, measured by weighted average to maturity, tend to be more sensitive to changes in interest rates than those with a shorter duration. As of June 30, 2019 and 2018, the weighted average maturity of the investments contained in SMIF is approximately 173 days and 193 days, respectively.

Custodial Credit Risk: For deposits, custodial credit risk is 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 to a transaction, a government will not be able to recover the value of its investment or collateral securities that are in the possession of another party. The California Government Code does not contain legal or policy requirements that would limit the exposure to custodial credit risk for deposits or investments, other than the following provision for deposits: the California Government Code requires that a financial institution secure deposits made by state or local governmental units by pledging securities in an undivided collateral pool held by a depository regulated under state law. The market value of the pledged securities in the collateral pool must equal at least 110% of the total amount deposited by the public agencies. California law also allows financial institutions to secure deposits by pledging first trust deed mortgage notes having a value of 150% of the secured public deposits.

Credit Risk: Credit risk is the risk that a debt issuer will fail to fulfill its obligation to the holder of the investment. This is measured by the assignment of a rating by a nationally recognized statistical rating organization. PMIA funds are on deposit with the State's Centralized Treasury System and are managed in compliance with the California Government

Code, according to a statement of investment policy discussed in Note 2. The PMIA is not rated.

Concentration of Credit Risk: Concentration of credit risk is the risk of loss attributed to the magnitude of an investor's holdings in a single issuer. The investment policy of the State Treasurer's Office contains no limitations on the amount that can be invested in any one issuer beyond those limitations stipulated in the California Government Code. As of June 30, 2019 and 2018, the System had investments contained in SMIF totaling 91% for both fiscal years. The System's PMIA investments totaled \$838,270 and \$844,766 for the fiscal years ended June 30, 2019 and 2018, respectively. Investments outside the State's Centralized Treasury System totaled \$85,213 and \$83,979 for the fiscal years ended June 30, 2019 and 2018, respectively.

Interest on deposits in PMIA varies with the rate of return of the underlying portfolio and averaged 2.266%, and 1.376% for the years ended June 30, 2019 and 2018, respectively. For the years ended June 30, 2019 and 2018, interest earned on the deposits with PMIA approximated \$18.8 million and \$12.1 million, respectively. Interest earned is included in the other revenues (expenses) line item on the statement of revenues, expenses, and changes in net position.

The U.S. Federal Agency Securities of \$50.9 million are valued using quoted market prices (Level 1 input). Income is comprised of interest, dividends, realized gains and losses, and unrealized gains and losses due to changes in the fair value of investments held at year-end.

6. Long-Term Debt

The following is a summary of changes in long-term debt for the years ended June 30, 2019 and 2018:

| Long-Term Debt | | | | | | | | |
|--------------------------|--------------|-------------------------|------------------------|------------------------|--------------------------------|---------------------|-------------|-------------------------|
| | | Revenu | e Bonds | | General Obligation Bonds | Commercial Paper | SB 84 Loan | Total Long Term Debt |
| | Par Amount | Unamortized Discount | Unamortized Premium | Total Revenue Bonds | Par Amount | Par Amount | Loan Amount | |
| Balance at June 30, 2017 | \$ 2,686,190 | \$ (6) | \$ 340,184 | \$ 3,026,368 | \$ 88,300 | \$ 147,165 | \$ - | \$ 3,261,833 |
| Additions | 491,495 | - | 71,473 | 562,968 | - | 500,483 | 60,910 | 1,124,361 |
| Retirements | (531,255) | - | (27,767) | (559,022) | - | (66,976) | - | (625,998) |
| Amortization | - | - | (22,737) | (22,737) | - | - | - | (22,737) |
| Payments | (138,570) | | | (138,570) | (34,235) | | | (172,805) |
| Balance at June 30, 2018 | 2,507,860 | (6) | 361,153 | 2,869,007 | 54,065 | 580,672 | 60,910 | 3,564,654 |
| Additions | 514,885 | - | 104,452 | 619,337 | - | 585,075 | - | 1,204,412 |
| Retirements | (109,080) | - | (313) | (109,393) | - | (475,763) | - | (585,156) |
| Amortization | - | 1 | (26,975) | (26,974) | - | - | - | (26,974) |
| Payments | (129,400) | | | (129,400) | (25,975) | | | (155,375) |
| Balance at June 30, 2019 | 2,784,265 | (5) | 438,317 | 3,222,577 | 28,090 | 689,984 | 60,910 | 4,001,561 |
| Less current portion | (147,035) | | | (147,035) | (17,405) | | (12,554) | (176,994) |
| Total Long-Term Debt | \$ 2,637,230 | \$ (5) | \$ 438,317 | \$ 3,075,542 | \$ 10,685 | \$ 689,984 | \$ 48,356 | \$ 3,824,567 |

GENERAL OBLIGATION BONDS

The Burns-Porter Act authorized the issuance of State Water Resources Development System (SWRDS) General Obligation (GO) Bonds in the amount of \$1,750 million for construction of the System. This amount included \$130 million to be set aside for financial assistance to local water agencies as provided in the Davis-Grunsky Act. The Burns-Porter Act also made a continuing appropriation of the California Water Fund, a fund unrelated to the System, to supplement the bond authorization. To the extent California Water Fund money was used for construction of the State water facilities in lieu of bond proceeds, an equal amount of bond authorization was set aside to be used only for the construction of additional facilities of the System that met certain requirements set forth in the Burns-Porter Act.

Under the Burns-Porter Act, revenues of the System, other than revenues attributable to facilities financed with Water System Revenue Bonds, are deposited in the California Water Resources Development Bond Fund and are to be used annually only for the following purposes and in the following order of priority:

1. To pay the maintenance, operation and replacement costs of the System,

- 2. To pay, or reimburse the General Fund of the State for, the principal of and interest on the SWRDS GO Bonds issued for the System as it becomes due,
- 3. To reimburse the California Water Fund for funds utilized from said fund for construction of the System (complete reimbursement has been made), and
- 4. To pay additional costs of the acquisition and construction of the System.

All such revenues are pledged for these uses and purposes for the benefit of the owners of the SWRDS GO Bonds.

As of June 30, 2019, the amount of the revenues pledged to repay the Burns-Porter Act SWRDS GO Bonds debt service is \$28.1 million with payments through 2025. Principal and interest paid for the current year was \$28.4 million and Burns-Porter Act water supply operating revenues were \$764.4 million. As of June 30, 2018, the amount of the revenues pledged to repay the Burns-Porter Act SWRDS GO Bonds debt service was \$58.5 million. Principal and interest paid for 2018 was \$38 million and Burns-Porter Act SWRDS water supply operating revenues were \$840.7 million.

SWRDS GO Bonds of \$168 million are authorized but un-issued as of June 30, 2019 and 2018, and may only be used for additional facilities, meeting certain requirements of the Burns-Porter Act.

Outstanding SWRDS GO Bonds include Series N through Series S, which may be called at any time for early redemption. SWRDS GO Bonds Series X and Y do not have early redemption provisions.

SWRDS GO Bonds consist of the following at June 30, 2019:

General Obligation Bonds

| | | | | | Amounts Outstandir | | |
|-------------------------|-------------------------------------------------------|-------------|----------------------------------|----|--------------------|----|----------|
| Fiscal Year of Issue | Series | Fixed Rates | Fiscal Year of Final Maturity | | 2019 | | 2018 |
| 1969 | L | 4.5% | 2019 | \$ | - | \$ | 4,500 |
| 1969 | M | 4.0% | 2019 | | - | | 4,500 |
| 1970 | N | 5.0% | 2020 | | 4,500 | | 8,900 |
| 1970 | Р | 5.0% | 2020 | | 4,500 | | 8,900 |
| 1971 | Q | 4.8% | 2021 | | 8,900 | | 13,200 |
| 1971 | R | 4.8% | 2021 | | 4,450 | | 6,600 |
| 1972 | S | 5.3% | 2022 | | 5,280 | | 6,920 |
| 1994 | X | 4.8% | 2024 | | 250 | | 300 |
| 1995 | Υ | 7.0-7.1% | 2025 | | 210 | | 245 |
| Total General O | Total General Obligation bond debt outstanding at par | | | | | | 54,065 |
| Less current por | tion | | | | (17,405) | | (25,975) |
| Total Long-term | General Obligati | \$ | 10,685 | \$ | 28,090 | | |

REVENUE BONDS

The Water System Revenue Bonds have been issued for the acquisition or construction of projects to provide water and power for the SWP. Under the statute pursuant to which Water System Revenue Bonds are issued, principal and interest on the bonds are secured by and payable solely from revenues attributable to the facilities financed by the bonds. These are primarily payments under the Water Supply Contracts between the System and Water Contractors.

As of June 30, 2019, the amount of the revenues pledged to repay the Water System Revenue Bonds debt service is \$3,838.4 million with payments through fiscal 2036. Principal and interest paid for the current year was \$242.5 million and CVP water supply operating revenues were \$246.3 million. As of June 30, 2018, the amount of the revenues pledged to repay the Water System Revenue Bonds debt service were \$3,452.2 million with payments through 2036. Principal and interest paid for the previous year was \$240.9 million and CVP water supply operating revenues were \$235.5 million.

The System's outstanding Water System Revenue Bonds contain a provision that in an event of default, and if after given a period of 60 days written notice by the Trustee, and the event of default continues, then the Trustee or the bondholders with at least 25 percent in the principal amount of outstanding Bonds are entitled to declare the outstanding amounts due immediately.

On April 24, 2019, the System issued tax-exempt, fixed-rate CVP Water System Revenue Bond, Series BA, with a par amount of \$299.6 million and a premium of \$70.3 million. This was achieved through a competitive sale to redeem

\$346 million of outstanding commercial paper notes. Bond proceeds were also used to pay the costs of issuance and fund both capitalized interest and the reserve account. The final maturity of the Series BA bonds will be 2035.

On October 18, 2018, the System issued tax-exempt, fixed rate CVP Water System Revenue Bond, Series AZ with a par amount of \$215.3 million and a premium of \$34.2 million. This was achieved through a negotiated sale to redeem \$129.7 million of outstanding commercial paper notes and to current refund Series AF and AY. The System achieved an economic gain of \$2.5 million, representing 2.26% savings of the refunded bonds. The final maturity of the Series AZ bonds will be 2035.

On December 19, 2017, the System issued tax-exempt, fixed-rate Water System Revenue bonds (Series AX), and federally taxable fixed-rate Water System Revenue bonds (Series AY), with par amounts of \$350.7 million and \$140.8 million, respectively, to current refund Series AO, and partially advance refund Series AE, AF, AG, AH, AI, AK, AN, AP, AQ, and AR. Series AX was issued with a premium of \$71.5 million and Series AY was issued at par. DWR took advantage of low interest rates and achieved an economic gain of \$27.6 million, representing 5.2% of the refunded bonds. Bond proceeds were also used to pay the costs of issuance and fund the reserve account.

On August 3, 2017, the System remarketed its variable rate Water System Revenue bonds (Series AT and Series AU) with par amounts of \$149.2 million and \$109.3 million respectively. The variable rate bonds were remarketed in advance of upcoming mandatory tender dates resulting in the System's election to adjust the interest rate period for each bond series. Series AT was originally issued on November 6, 2014, and had a mandatory tender date of December 1, 2017. Series AU was originally issued on September 2, 2015 and had a mandatory tender date of September 1, 2017. As a result of this remarketing transaction, the weighted average interest rate for both series decreased 0.13% from 0.44% to 0.31%, and the weighted average remarketing term increased from 2.6 years to 4.5 years. DWR retained the Securities Industry and Financial Markets Association (SIFMA) index for calculating interest payments.

The System is subject to certain bond covenants, the most restrictive of which requires that the revenues in each year shall be at least equal to 1.25 times the debt service payable from revenues on all bonds outstanding in such year, plus operating costs, and the required funding of the debt service reserve account. The bonds are limited special obligations of the System; neither the principal nor any interest thereon constitutes a debt of the State. Certain bonds are redeemable prior to maturity at a redemption price of 100%.

Water System Revenue Bonds consist of the following at June 30, 2019:

CVP Revenue Bonds

| | | | | | | Amounts C | utsta | anding |
|-------------------------|---------------|-----------------|----------------------------------|-----------------------------------|------|-----------|-------|----------|
| Fiscal Year of Issue | Series | Fixed Rates | Fiscal Year of Final Maturity | Fiscal Year of First Call Date | 2019 | | | 2018 |
| Devil Canyon-Cast | aic Facilitie | s: | | | | | | |
| 1973 | A&B | 5.3% | 2023 | 1983 | \$ | 32,045 | \$ | 38,955 |
| CVP Water System | : | | | | | | | |
| 1999 | V | 6.3% | 2025 | None | | 18,050 | | 18,050 |
| 2008 | AE | 3.7-5.0% | 2019 | 2018 | | - | | 5,70 |
| 2009 | AF | 4.0-5.0% | 2021 | 2019 | | - | | 13,35 |
| 2010 | AG | 4.0% | 2020 | None | | 400 | | 78 |
| 2011 | AH | 4.5-5.0% | 2023 | 2021 | | 15,600 | | 18,38 |
| 2012 | Al | 5.0% | 2026 | 2022 | | 32,625 | | 45,59 |
| 2012 | AJ | 4.0-5.0% | 2030 | 2022 | | 62,270 | | 79,88 |
| 2012 | AK | 4.0-5.0% | 2030 | 2022 | | 8,815 | | 9,74 |
| 2013 | AL | 5.0% | 2030 | 2023 | | 51,265 | | 56,60 |
| 2013 | AM | 5.0% | 2026 | 2023 | | 124,570 | | 134,23 |
| 2013 | AN | 5.0% | 2030 | 2023 | | 12,895 | | 16,53 |
| 2013 | AP | 3.0-4.0% | 2036 | 2023 | | 12,700 | | 14,26 |
| 2013 | AQ | 4.0-5.0% | 2036 | 2023 | | 42,580 | | 44,51 |
| 2014 | AR | 4.0-5.0% | 2036 | 2024 | | 78,870 | | 84,72 |
| 2015 | AS | 4.0-5.0% | 2033 | 2025 | | 627,380 | | 641,86 |
| 2015 | AT | Variable | 2036 | 2022 | | 149,245 | | 149,24 |
| 2016 | AU | Variable | 2036 | 2020 | | 109,275 | | 109,27 |
| 2016 | AV | 4.0-5.0% | 2036 | 2026 | | 102,685 | | 106,53 |
| 2017 | AW | 4.0-5.0% | 2036 | 2027 | | 424,975 | | 428,13 |
| 2018 | AX | 5.0% | 2036 | 2028 | | 326,190 | | 350,67 |
| 2018 | AY | 2.1-3.1% | 2030 | 2018 | | 36,945 | | 140,82 |
| 2019 | AZ | 3.0-5.0% | 2036 | 2029 | | 215,295 | | |
| 2019 | ВА | 5.0% | 2036 | 2029 | | 299,590 | | |
| Total CVP Water Sy | ystem Reve | nue Bonds | | | | 2,752,220 | | 2,468,90 |
| Total revenue bo | nd debt ou | tstanding at pa | ar | | | 2,784,265 | | 2,507,86 |
| Unamortized bond | d issuance p | oremiums | | | | 438,317 | | 361,15 |
| Unamortized bond | d issuance o | discounts | | | | (5) | | (6 |
| Less current portic | n | | | | | (147,035) | | (129,400 |
| Total long-term b | ond debt | outstanding | | | \$ | 3,075,542 | \$ | 2,739,60 |

FUTURE DEBT SERVICE REQUIREMENTS

Future principal and interest payment requirements on the bonds are as follows at June 30, 2019:

| F | | C: | D ~ ~: | rements |
|----------|-------|---------|--------|---------|
| FIITIIFA | LIPOT | Service | KECHI | rements |
| | | | | |

| | Revenue Bonds | | | | | General Obligation Bonds | | | | | ds | All Bonds | |
|-----------|---------------|-----------|-----------------|----|-----------|--------------------------|----------|----|-------|----|--------|-----------|-----------|
| Year | | Principal | Interest* Total | | Principal | | Interest | | Total | | Total | | |
| 2020 | \$ | 147,035 | \$ 127,522 | \$ | 274,557 | \$ | 17,405 | \$ | 1,386 | \$ | 18,791 | \$ | 293,348 |
| 2021 | | 167,775 | 119,405 | | 287,180 | | 8,595 | | 527 | | 9,122 | | 296,302 |
| 2022 | | 171,645 | 111,297 | | 282,942 | | 1,885 | | 109 | | 1,994 | | 284,936 |
| 2023 | | 179,225 | 102,662 | | 281,887 | | 85 | | 10 | | 95 | | 281,982 |
| 2024 | | 167,315 | 93,426 | | 260,741 | | 85 | | 5 | | 90 | | 260,831 |
| 2025-2029 | | 865,580 | 342,663 | | 1,208,243 | | 35 | | 1 | | 36 | | 1,208,279 |
| 2030-2034 | | 762,025 | 144,124 | | 906,149 | | - | | - | | - | | 906,149 |
| 2035-2036 | | 323,665 | 13,042 | | 336,707 | | - | | | | - | | 336,707 |
| | \$ | 2,784,265 | \$ 1,054,141 | \$ | 3,838,406 | \$ | 28,090 | \$ | 2,038 | \$ | 30,128 | \$ | 3,868,534 |

^{*}Includes variable rate bonds for Series AT and Series AU, which bear interest at a weekly rate. An assumed rate of 3.0% for Series AT and 2.85% for Series AU was used to project the variable portion of interest payments in this table. The interest rate still in effect was determined at issuance date using the Securities Industry and Financial Markets Association (SIFMA) Swap 10 year average Index, plus an applicable basis point spread. The variable rate for the bonds as of June 30, 2019 was 2.27% for Series AT and 2.12% for Series AU.

SB 84 LOAN

On July 10, 2017, the California Senate Bill 84 was enacted, to amend Sections 16475 and 16480.6 of, and to add Section 20825 to, the Government Code, relating to state employees' retirement. This bill would require the State Controller's Office (SCO) to transfer up to \$6 billion from the Surplus Money Investment Fund and other funds in the Pooled Money Investment Account to the General Fund as a cash loan, the proceeds of which would supplement the state's employer contributions for the fiscal year 2017-2018. This bill would also require that repayment of the loan principal and the payment of interest be made from the General Fund and other funds and accounts that are required by law to fund the state's employer contribution to the Public Employees' Retirement Fund. The loan is to be fully repaid by June 30, 2030. The amount allocated to the System was \$60.9 million and no payments were made during fiscal year 2019. Future principal and interest payment requirements on the loan are as follows as of June 30, 2019.

Future Debt Service Requirements

| | | SB 84 Loan | | | | | | | | |
|------|----|------------|----|---------|----|--------|--|--|--|--|
| Year | F | Principal | | nterest | | Total | | | | |
| 2020 | \$ | 12,554 | \$ | 3,517 | \$ | 16,071 | | | | |
| 2021 | | 9,486 | | 1,783 | | 11,269 | | | | |
| 2022 | | 9,832 | | 1,437 | | 11,269 | | | | |
| 2023 | | 10,232 | | 1,037 | | 11,269 | | | | |
| 2024 | | 10,637 | | 632 | | 11,269 | | | | |
| 2025 | | 8,169 | | 984 | | 9,153 | | | | |
| | \$ | 60,910 | \$ | 9,390 | \$ | 70,300 | | | | |

COMMERCIAL PAPER NOTES

In March 1993, the System launched its commercial paper (CP) program to pay for Water System Capital costs relating to State Water System Projects. Pursuant to the original Resolution No. DWR-CP-1, adopted as of March 1, 1993, the Department authorized the issuance of CP Notes Series 1 in an aggregate amount not to exceed \$150 million, limited to \$139.7 million in principal and \$10.3 million of accrued interest. To provide liquidity for the program, the Department entered into two separate credit agreements with two commercial banks on May 3, 2017. Pursuant to Resolution No. DWR-CP-5, adopted on May 1, 2017, the Department authorized the increase of the issuance of CP Notes Series 1 (Series 1) in an amount not to exceed \$300 million in principal and \$22.2 million in accrued interest. On the same date, pursuant to Resolution DWR-CP-Series 2-1, the Department authorized the issuance of new CP Notes Series 2 (Series 2), with a limit not to exceed \$500 million in principal and \$37 million in accrued interest. On February 1, 2018, pursuant to Resolution No. DWR-CP-Series 2-2, the Department authorized an additional increase of the issuance of Series 2 in an amount not to exceed \$800 million in principal and \$59.2 million in accrued interest. On October 18, 2018, pursuant to Resolution No. DWR-CP-6, the Department authorized an additional increase of the issuance of Series 1 in an amount not to exceed \$600 million in principal and \$44.4 million in accrued interest, to expand its total CP capacity to \$1.4 billion in principal and \$103.6 million in accrued interest. Proceeds of the Series 1 Notes are expected to be used to provide funds for the construction of certain Water System Projects, including a portion of the costs of the Oroville Dam Spillway Recovery and Restoration Projects. The Series 2 program was established to pay for cost relating to the Oroville Dam Spillway Recovery and Restoration Project.

The Department has two revolving credit agreements with two commercial banks supporting its \$1.4 billion CP program. The Series 1 is supported by Bank of America, N.A (Bank of America) and the Series 2 by Wells Fargo Bank, National Association (Wells Fargo). The Series 1 expires on October 15, 2021 and Series 2 on February 25, 2021, but both can be extended for up to three years upon written request and approval of the banks. Both agreements require quarterly commitment fee payments on the first business day of each July, October, January and April. As of June 30, 2019, there were no borrowings with the banks under the current revolving credit agreements.

The Series 1 program, which was originally supported by a \$150 million, credit agreement with Bank of Montreal, was scheduled to expire on October 24, 2017, but was terminated early on May 4, 2017. Under the prior credit agreement, Bank of Montreal was obligated to provide \$150 million, with principal limited to \$139.7 million and \$10.3 million of accrued interest. There were no borrowings with Bank of Montreal under this revolving credit agreement before it was terminated. Under the current credit agreement with Bank of America, which became effective on October 18, 2018, Bank of America is obligated to provide up to \$600 million in principal at any one time and \$44.4 million of accrued interest. For sizing purposes, accrued interest is calculated at 10% per annum for 270 days on a maximum principal commitment of \$600 million.

The Series 2 is supported by a credit agreement with Wells Fargo. Under the original agreement dated May 4, 2017, Wells Fargo was obligated to provide up to \$500 million in principal at any one time and up to \$37 million of accrued interest. Under the current agreement dated February 26, 2018, Wells Fargo is obligated to provide up to \$800 million of principal at any one time and \$59.2 million of accrued interest. For sizing purposes, accrued interest is calculated at 10% per annum for 270 days on a maximum principal commitment of \$800 million.

The System's outstanding CP Series 1 and Series 2 contain certain provisions that under certain events of default, the credit agreements supported by Bank of America and Wells Fargo, respectively, will terminate and amounts outstanding become immediately due and payable.

As of June 30, 2019, the amount of CP notes outstanding was \$129.2 million for the Series 1, and \$560.7 million for the Series 2. As of June 30, 2018, the amount outstanding for the Series 1 was \$24.6 million, and \$556.1 for the Series 2. The weighted average rate for interest expense for the Series 1 Notes approximated 1.59% for the year ended June 30, 2019 and 1.27% for the year ended June 30, 2018. The weighted average rate for interest expense for the Series 2 Notes approximated 1.58% for the year ended June 30, 2019 and 1.16% for the year ended June 30, 2018. The System expects a significant portion of the Series 2 Notes to be paid with proceeds from the federal government as reimbursement for costs relating to the Oroville Dam Spillway Recovery and Restoration Project. The Department received approximately \$3.8 million in federal reimbursements in fiscal 2019 and \$69 million in fiscal 2018. Any CP outstanding remaining after all reimbursements have been received will be refunded with Revenue Bonds.

Proceeds from the sale of CP notes are used to finance Water System Projects prior to permanent financing from the sale of Water System Revenue Bonds. Proceeds from the Series 2 Notes are restricted to be used to provide funds for costs related to the Oroville Dam Spillway Recovery and Restoration Project (Oroville) and proceeds from the Series 1 Notes are restricted to be used to provide funds for costs related to all Water System projects, including Oroville. The liability has been classified as long-term as it is the System's policy to redeem the Commercial Paper outstanding with the issuance of Water System Revenue Bonds. The System's obligation to make debt service payments on Commercial Paper Notes is subordinate to its payment obligations with respect to the Water System Revenue Bonds and SWRDS GO Bonds.

The Water Supply Contracts, in their original form, provide for two charges to the Water Contractors: (a) a Delta Water Charge and (b) a Transportation Charge. These charges are computed to return to the State the costs of the facilities necessary to deliver water to the Water Contractors, including capital costs (with interest) and operation and maintenance costs, and expressly including in the case of the facilities to be financed with commercial paper and the related Water System Revenue Bonds, debt service and 1.25 debt service coverage requirements to be satisfied from revenues.

7. Bond Refundings and Defeasances

During the current fiscal year, the System issued CVP Water System Revenue Bonds Series AZ to refund portions of previous issuances. In prior years, the System has also defeased various bond issuances by depositing bonds proceeds in escrows and creating irrevocable trusts. The net proceeds from these advance refundings were used to purchase U.S. Treasury Securities, such as State and Local Government Series (SLGS) to meet the requirements of the refunded debt. Those securities were deposited in irrevocable escrow trust accounts with the State Treasurer acting as escrow agent to provide for all future debt service on the bonds being refunded. As a result, those bonds are considered to be defeased, and the related liabilities have been excluded from the System's basic financial statements. At June 30, 2019 and 2018, outstanding Water System Revenue Bonds of \$504.5 million and \$653.8 million, respectively, are considered to be defeased.

In addition to GASB Statement No. 86, the System is required to disclose any remaining balance of previously defeased bonds that were defeased using its own existing resources. As of June 30, 2019, and 2018, the outstanding balance of bonds that were defeased using the System's own existing resources was \$20.4 million and \$22.3 million, respectively. The cash deposited to the escrow was invested in U.S. Treasury – SLGS, to comply with yield restrictions and arbitrage rebate provisions of the Internal Revenue Code. SLGS are direct obligations of the U.S. Government and considered essentially risk-free.

On October 18, 2018, the System issued tax-exempt CVP Water System Revenue Bonds Series AZ with an average yield of 2.59% to refund a portion of commercial paper notes and portions of Series AF and AY. Bond proceeds with a par of \$95.2 million and premium of \$14.2 million, along with System funds on-hand in the amount of \$1.2 million were used to refund bonds with a par amount of \$109.1 million. The par amounts of the refunded bonds are as follows:

| Bonds Refunded by Series AZ | | | | | | | | | | |
|-----------------------------|-------------|------------|----------------|-----|-----------|--|--|--|--|--|
| Bond Series | Refunded By | Tax Basis | Refunding Type | Ref | unded Par | | | | | |
| Series AF | Series AZ | Tax-Exempt | Current | \$ | 5,200 | | | | | |
| Series AY | Series AZ | Tax-Exempt | Current | | 103,880 | | | | | |
| Total | | | | \$ | 109,080 | | | | | |

The Series AZ refunding was undertaken to take advantage of lower interest rates. These transaction resulted in cash flow savings of \$3.05 million and economic gains (difference between the present values of the debt service payments on the old debt and new debt) of \$2.47 million, or 2.26% of the refunded bonds. The refunding resulted in a difference between the book value of the old debt and the amount required to retire the debt of \$146 thousand. This difference is considered a deferred gain on the refunding and is being amortized over the original remaining life of the old debt or the life of the new debt, whichever is less, using the straight-line method.

Amortization of all deferred refunding costs was approximately \$10.3 million in fiscal 2019 and \$10.1 million in fiscal 2018.

8. Retirement Plan

The State is a member of the California Public Employees' Retirement System (CalPERS), an agent multiple-employer defined benefit pension plan. As an enterprise fund, the System is required under GASB 68 to report results pertaining to liability and asset information as of specific dates and within certain time frames. For this report, the following time frames apply:

■ Valuation Date June 30, 2017

Measurement Date June 30, 2018

■ Measurement Period July 1, 2017 to June 30, 2018

PLAN DESCRIPTION

As a participant in the State of California's defined benefit pension plan, the System reports an allocated share of the total net pension liability reported by the State. Departments and agencies within the State of California, including the System, are in a cost-sharing arrangement in which all risks and costs are shared proportionately by participating State agencies. The System, for the most part has all its employees enrolled in the State Miscellaneous Plan. CalPERS functions as a common investment and administrative agent for participating public agencies within the State of California using the accrual basis of accounting. All state agencies are considered collectively to be a single employer, and the actuarial present value of vested and non-vested accumulated plan benefits attributable to the System's employees is determined as the System's percentage of the State as a single employer. Fiduciary net position available for benefits of the System's employees are also determined as the System's percentage of the State.

CalPERS issues a publicly available Comprehensive Annual Financial Report that includes financial statements and required supplementary information for CalPERS. CalPERS also issues the GASB 68 Accounting Valuation Report. Copies of these reports may be obtained by logging onto the CalPERS website at www.calpers.ca.gov.

BENEFITS PROVIDED AND EMPLOYEES COVERED

CalPERS provides retirement benefits, survivor benefits, and death and disability benefits based upon employee's years of credited service, age, and final compensation. Vesting occurs after five years of credited service except for second tier benefits, which require ten years of credited service. Most employees who retire at or after age 50 with five or more years of service are entitled to a retirement benefit. New members with service credit beginning on or after January 1, 2013 must be at least age 52. Benefits are payable monthly for the remainder of their lives. Health care and dental benefits, described in Note 9, may be provided to members depending on the date hired and the years of credited service of a member. Several survivor benefit options that reduce a retiree's unmodified benefit are available. Benefit provisions and all other requirements are established by State statute.

CONTRIBUTIONS

The contribution requirements of the plan members are established by State statute and the employer contribution rate is established and may be amended by CalPERS. Section 20814(c) of the California Public Employees' Retirement Law (PERL) requires that the employer contribution rates for all public employers be determined on an annual basis by the actuary and shall be effective on the July 1 following notice of a change in the rate. The total plan contributions are determined through the CalPERS' annual actuarial valuation process. The actuarially determined rate is the estimated amount necessary to finance the costs of benefits earned by employees during the year with an additional amount to finance any unfunded accrued liability. The employer is required to contribute the difference between the actuarially determined rate and the contribution rate of the plan members or employees. These rates reflect PERL Section 20683.2, which mandates that certain employees contribute more as of July 1, 2013. Furthermore, any reduction in employer contributions due to the increase in the employee contributions must be paid by the employer toward the unfunded liability. The System's total employer contributions were \$63.1 million and \$58.3 million for the fiscal years ended June 30, 2019 and 2018, respectively.

The following table shows the average active employee and the employer contribution rates for the State Miscellaneous and State Industrial plans applicable to the System as a percentage of annual pay for the measurement period ended June 30, 2018 and 2017:

| Contribution Rates | | | | | | | | | | | |
|---------------------------------|---------------|------------------|---------------|------------------|--|--|--|--|--|--|--|
| | | Measurem | ent Dates | | | | | | | | |
| | June 30 | , 2018 | June 3 | 0, 2017 | | | | | | | |
| | State | | State | | | | | | | | |
| | Miscellaneous | State Industrial | Miscellaneous | State Industrial | | | | | | | |
| Average active employee rate | 6.766% | 7.890% | 6.737% | 7.858% | | | | | | | |
| Employer rate of annual payroll | 28.401% | 20.408% | 26.734% | 19.246% | | | | | | | |
| Total | 35.167% | 28.298% | 33.471% | 27.104% | | | | | | | |

ACTUARIAL METHODS AND ASSUMPTIONS

The net pension liability at June 30, 2019 and 2018 was measured as of June 30, 2018 and 2017, respectively, by rolling forward the total pension liability using an annual actuarial valuation as of June 30, 2017 and 2016, respectively.

The total pension liabilities for the measurement dates of June 30, 2018 and 2017 were based on the following actuarial methods and assumptions:

Actuarial Methods and Assumptions

Actuarial Cost Method: Entry Age Normal in accordance with the requirements of GASB Statement No. 68 Actuarial Assumptions:

> Discount Rate 7.15% in 2018 and in 2017

Inflation 2.50% in 2018 and 2.75% in 2017 Salary Increases Varies by Entry Age and Service

7.15% in 2018 and in 2017, net of pension plan investment

Investment Rate of Return: expense but without reduction for administrative expenses;

include inflation

Mortality Rate Table¹ Derived using CalPers' Membership Data for all Funds

> Contract COLA up to 2.00% and 2.75% in 2018 and 2017, respectively, until the Purchasing Power Protection Allowance

Post Retirement Benefit Increase floor on purchasing power applies, 2.50% and 2.75% thereafter

in 2018 and 2017, respectively

The mortality table used was developed based on CalPERS specific data. The table includes 15 years of mortality improvements using the Society of Actuaries 90% of Scale MP 2016. For more details on this table, please refer to the 2017 CalPERS Experience Study and Review of Actuarial Assumptions report (Experience Study).

All other actuarial assumptions used in the June 30, 2017 and 2016 valuations were based on the results of an actuarial experience study for the period from 1997 to 2015, including updates to salary increase, mortality, and retirement rates. The Experience Study report may be accessed on the CalPERS' website under Forms and Publications.

DISCOUNT RATE

The discount rate used to measure the total pension liability at June 30, 2018 and 2017 measurement dates was 7.15%. The projection of cash flows used to determine the discount rate assumed that contributions from plan members will be made at the current member contribution rates and that contributions from employers will be made at statutorily required rates, actuarially determined. Based on those assumptions of the Plans, the assets were projected to be available to make all projected future benefit payments of current plan members. Therefore, the long-term expected discount rate of 7.15% at June 30, 2018 and 2017 measurement dates, was applied to all plans in the Public Employees Retirement Fund. CalPERS' approach for the cash flow projections are presented in the GASB 67 and 68 Crossover Testing Report, which may be obtained from the CalPERS' website.

The long-term expected rate of return on pension plan investments of 7.15% was determined using a building-block method in which best-estimate 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.

In determining the long-term rate of return, CalPERS took into account both short-term and long-term market return expectations, as well as the expected pension fund cash flows. Such cash flows were developed assuming that both members and employers will make their required contributions on time and as scheduled in all future years. Using

historical returns of all the fund's asset classes, expected compound (geometric) returns were calculated over the shortterm (first 10 years) and the long-term (11+ years) using a building-block approach. Using the expected nominal returns for both short-term and long-term, the present value of benefits was calculated for each fund. The expected rate of return was set by calculating the single equivalent expected return that arrived at the same present value of benefits for cash flows as the one calculated using both short-term and long-term returns. The expected rate of return was then set equal to the single equivalent rate calculated above and adjusted to account for assumed administrative expenses.

The following table reflects expected real rate of return by asset class.

Long-Term Expected Rate of Return by Asset Class

| | Curren | Current Target | | Real Return Years | | urn Years |
|-------------------------------|--------|----------------|----------|-------------------|--------|-----------|
| | | | Measurer | nent Dates | | |
| Asset Class | 2018 | 2017 | 2018 1 | 2017 2 | 2018 ³ | 2017 4 |
| Global Equity | 50.0% | 47.0% | 4.80% | 4.90% | 5.98% | 5.38% |
| Global Fixed Income | 28.0% | 19.0% | 1.00% | 0.80% | 2.62% | 2.27% |
| Inflation Sensitive | - | 6.0% | 0.77% | 0.60% | 1.81% | 1.39% |
| Private Equity | 8.0% | 12.0% | 6.30% | 6.60% | 7.23% | 6.63% |
| Real Estate | 13.0% | 11.0% | 3.75% | 2.80% | 4.93% | 5.21% |
| Infrastructure and Forestland | - | 3.0% | - | 3.90% | - | 5.36% |
| Liquidity | 1.0% | 2.0% | - | -0.40% | -0.92% | -0.90% |
| | 100.0% | 100.0% | | | | |

¹An expected inflation of 2.00% used for this period

SENSITIVITY OF THE NET PENSION LIABILITY TO CHANGES IN THE DISCOUNT RATE

The following presents the net pension liability of the System's proportionate share of the Plan as of the June 30, 2018 and 2017 measurement dates, calculated using the discount rate of 7.15% for both years, as well as what the net pension liability would be if it were calculated using a discount rate that is 1 percentage-point lower (6.15%) or 1 percentage-point higher (8.15%) than the current rate:

²An expected inflation of 2.50% used for this period

³An expected inflation of 2.92% used for this period

⁴An expected inflation of 3.00% used for this period

Sensitivity of the Net Pension Liability to Changes in the Discount Rate

| | Measurement Dates | | | | | |
|-----------------------|-------------------|---------|----|---------|--|--|
| | | 2018 | | 2017 | | |
| Discount Rate -1% | | 6.15% | | 6.15% | | |
| Net Pension Liability | \$ | 755,996 | \$ | 816,154 | | |
| | | | | | | |
| Current Discount Rate | | 7.15% | | 7.15% | | |
| Net Pension Liability | \$ | 527,333 | \$ | 630,912 | | |
| | | | | | | |
| Discount Rate +1% | | 8.15% | | 8.15% | | |
| Net Pension Liability | \$ | 335,709 | \$ | 436,546 | | |

PENSION PLANS FIDUCIARY NET POSITION

Detailed information about the pension plan's fiduciary net position is available in the separately issued CalPERS financial report and the State of California financial report.

PENSION LIABILITIES, PENSION EXPENSE AND DEFERRED OUTFLOWS AND DEFERRED INFLOWS OF RESOURCES **RELATED TO PENSIONS**

As of June 30, 2019, and 2018, the System reported a net pension liability of \$527.3 million and \$630.9 million, respectively, for its proportionate share.

The net pension liability at June 30, 2019 and 2018 was measured as of June 30, 2018 and 2017, respectively, by rolling forward the total pension liability using an annual actuarial valuation as of June 30, 2017 and 2016, respectively. The System's proportion of the net pension liability was based on the System's pensionable compensation relative to the pensionable compensation of the State Miscellaneous plan members, as calculated by the State Controller's Office (SCO). The System's proportionate share of the net pension liability as of June 30, 2018 and 2017 was 1.6786% and 1.7268%, respectively.

For the year ended June 30, 2019 and 2018, the System recognized pension expense of \$83.8 million and \$92.5 million, respectively. At June 30, 2019 and 2018, the System has deferred outflows and deferred inflows of resources related to pensions as follows:

Deferred Outflows of Resources and Deferred Inflows of Resources

| | 2019 | | | 2018 | | | | |
|----------------------------------------------------------------------------------|--------------------------------|---------|-------------------------------|----------|--------------------------------|---------|----|---------------------------|
| | Deferred Outflows of Resources | | Deferred Inflows of Resources | | Deferred Outflows of Resources | | | rred Inflows Resources |
| System contribution subsequent to the measurement date | \$ | 63,075 | \$ | - | \$ | 119,175 | \$ | - |
| Changes in proportion | | 11,287 | | (19,286) | | 17,155 | | (7,584) |
| Changes of assumptions | | 47,568 | | (17,484) | | 73,403 | | - |
| Difference between expected and actual experience | | 5,657 | | (3,674) | | 2,764 | | (5,888) |
| Net difference between projected and actual earnings on pension plan investments | | 5,448 | | | | 17,896 | | |
| Total | \$ | 133,035 | \$ | (40,444) | \$ | 230,393 | \$ | (13,472) |

The System reported \$63.1 million and \$119.2 million as deferred outflows of resources related to contributions subsequent to the measurement date of June 30, 2018 and 2017, respectively, will be/was recognized as a reduction of the net pension liability in the fiscal years ended June 30, 2020 and 2019, respectively. Other amounts reported as deferred outflows and inflows of resources related to pensions will be recognized as pension expense as follows:

| Amortization of Deferred Outflows/(Inflows) | | | | | | | |
|---------------------------------------------|--------------|-----------------|--|--|--|--|--|
| Deferred | | | | | | | |
| | Out | flows/(Inflows) | | | | | |
| Year Ended June 30: | of Resources | | | | | | |
| 2020 | \$ | 33,733 | | | | | |
| 2021 | | 19,241 | | | | | |
| 2022 | | (16,449) | | | | | |
| 2023 | | (7,009) | | | | | |
| Total | \$ | 29,516 | | | | | |

9. Postemployment Benefits Other Than Pensions

PLAN DESCRIPTION AND BENEFITS PROVIDED

As a participant in the State of California's defined benefit other postemployment benefits plan, the System reports an allocated share of the total net OPEB liability reported by the State. Departments and agencies within the State, including the System, are in a cost-sharing arrangement in which all risks and costs are shared proportionately by participating State agencies. The State of California provides medical benefits to retired state employees and dependents through the California Public Employees' Retirement System (CalPERS) under the Public Employees' Medical and Hospital Care Act, and dental benefits under the State Employees' Dental Care Act. The State, and certain bargaining

units and judicial employees (valuation groups) have agreed to prefund healthcare benefits. Assets are held in separate accounts by valuation group within the California Employers' Retiree Benefit Trust (CERBT), an agent multiple-employer defined benefit other postemployment benefits plan administered by CalPERS. Assets within each valuation group benefit retirees and dependents associated with that valuation group. CalPERS issues a publicly available comprehensive annual financial report that includes financial statements for its CERBT Fund. Copies of these reports may be obtained by visiting the CalPERS website at www.calpers.ca.gov.

To be eligible for these benefits, employees must retire after attaining certain age and length of service requirements. In accordance with the California Government Code, the State generally pays 100% of the health insurance premium cost for retirees, plus 90% of the additional premium required for dependents. The State generally pays all or a portion of the dental insurance premium cost for retirees, depending upon the completed years of credited state service at retirement and the coverage selected by the retiree.

As a participant in the State of California's defined benefit other postemployment plan, the System reports an allocated share of the total net OPEB liability reported by the State.

CONTRIBUTIONS

The contribution requirements of plan members and the State are established and may be amended by the Legislature, and can be subject to collective bargaining. The State funds the cost of providing health and dental insurance to retirees primarily on a "pay-as-you-go" basis, with a modest amount of prefunding for members of certain bargaining units, and other funded plans. The System's allocated share of the contribution was \$23.9 million and \$21 million for fiscal years ended June 30, 2019 and 2018, respectively.

ACTUARIAL METHODS AND ASSUMPTIONS

The net OPEB liability at June 30, 2019 and 2018 was measured as of June 30, 2018 and 2017, respectively, by rolling forward the total OPEB liability using an actuarial valuation as of June 30, 2018 and 2017, respectively.

The total OPEB liability for the measurement dates of June 30, 2018 and 2017 were based on the following actuarial methods and assumptions:

Actuarial Methods and Assumptions

Actuarial Cost Method: Entry Age Normal in accordance with the requirements of GASB Statement No. 75 Actuarial Assumptions:

> Blended rate for each valuation group, consisting of 7.00% in Discount Rate

> > 2018 and 7.28% in 2017 when assets are available to pay benefits, otherwise 20-year Municipal G.O. Bond AA Index rate

of 3.62% in 2018 and 3.56% in 2017

Inflation 2.50% in 2018 and 2.75% in 2017

Salary Increases Varies by Entry Age and Service

Investment Rate of Return 7.00% in 2018 and 7.28% in 2017, net of OPEB plan

investment expenses but without reduction for OPEB plan

administrative expenses

Healthcare Cost Trend Rates Pre-Medicare coverage: Actual rates for 2019, increasing to

7.50% in 2020, then decreasing 0.50% per year to an ultimate

rate of 4.50% for 2026 and later years

Post-Medicare coverage: Actual rates for 2019, increasing to 8.0% for 2020 then decreasing 0.50% per year to an ultimate

rate of 4.50% for 2027 and later years

Dental coverage: 0.26% in 2019 and 4.50% thereafter

Derived using CalPERS' membership data for all members Mortality Rate Table

The mortality table used was developed based on CalPERS' specific data. The table includes 15 years of mortality improvements using the Society of Actuaries 90% Scale MP 2016. For more details on this table, refer to the 2017 CalPERS Experience Study and Review of Actuarial Assumptions report (Experience Study) for the period from 1997 to 2015. Other demographic assumptions used in the June 30, 2018 and 2017 valuations were also based on the results of the Experience Study, including updates to termination, disability, and retirement rates. The Experience Study report can be obtained from CalPERS' website, at www.calpers.ca.gov.

Healthcare related assumptions such as plan participation, aging factors, adjustments for disabled members, and adjustments for children of current retirees and survivors are based on the 2015 experience study performed by Gabriel, Roeder, Smith and Company (GRS) for the period from 2007 to 2014. Other healthcare assumptions such as member healthcare plan selection, coverage and continuance, select and ultimate healthcare cost trend rates, and per capita claim costs and expenses, are based on the most current information available. To obtain a copy of the GRS experience study please email the State Controller's Office, State Accounting and Reporting Division, at StateGovReports@sco.ca.gov.

DISCOUNT RATE

The discount rate used to measure the total OPEB liability was based on a blended rate for each valuation group. The blended rate used to measure the June 30, 2018 and 2017 total OPEB liability consists of the 20-year Municipal G.O. Bond AA Index rate of 3.62% as of June 30, 2018 and 3.56% as of June 30, 2017, as reported by Fidelity Index, when prefunding assets are not available to pay benefits, and 7.00% and 7.28% at June 30, 2018 and 2017 measurement dates, respectively, when prefunding assets are available to pay benefits. The cash flow projections used to calculate the

blended discount rate were developed assuming that prefunding agreements in which actuarially determined normal costs are shared between employees and the State will continue and that the required contributions will be made on time and as scheduled in future years. The prefunding agreements are subject to collective bargaining and legislative approval. Detailed information on the blended discount rates by valuation group is available in the State of California Retiree Health Benefits Program GASB Nos. 74 and 75 Actuarial Valuation Report as of June 30, 2018 and 2017, on the State Controller's Office website, at www.SCO.ca.gov.

The long-term expected rate of return on OPEB plan investments was determined using a building-block method in which expected future real rates of return (expected returns, net of OPEB plan investment expense and inflation) are developed for each major asset class. Expected compound (geometric) returns were calculated over a closed period. Based on separate expected nominal returns for the short-term (first 10 years) and the long-term (11+ years), a single expected return rate of 7.00% and 7.28% at June 30, 2018 and 2017 measurement dates, respectively, was calculated for the combined short-term and long-term periods. If applied to expected cash flows during that period, the resulting present value of benefits is expected to be consistent with the present value of benefits that would be determined by applying the short and long-term expected rates to the same cash flows.

The following table reflects the long-term expected real rate of return by asset class:

| Long-Term Expected Rate of Return by Asset Class | | | | | | | | | | |
|--------------------------------------------------|---------------------------|--------|---------------------------|------------|--------|-----------------|--|--|--|--|
| | Current Target Allocation | | Real Return Years 1-10 | | | urn Years 1+ | | | | |
| | | | Measuren | nent Dates | | | | | | |
| Asset Class | 2018 | 2017 | 2018 1 | 2017 2 | 2018 ³ | 2017 4 | | | | |
| Global Equity | 59.0% | 57.0% | 4.80% | 5.25% | 5.98% | 5.71% | | | | |
| Global Fixed Income | 25.0% | 27.0% | 1.10% | 1.79% | 2.62% | 2.40% | | | | |
| Treasury Inflation-Protected Securities | 5.0% | 5.0% | 0.25% | 1.00% | 1.46% | 2.25% | | | | |
| Real Estate Investment Trust | 8.0% | 8.0% | 3.50% | 3.25% | 5.00% | 7.88% | | | | |
| Commodities | 3.0% | 3.0% | 1.50% | 0.34% | 2.87% | 4.95% | | | | |
| | 100.0% | 100.0% | | | | | | | | |

¹An expected inflation of 2.00% used for this period

 $^{^{2}\}mbox{An expected inflation of 2.50\% used for this period}$

³An expected inflation of 2.92% used for this period

⁴An expected inflation of 3.00% used for this period

SENSITIVITY OF THE NET OPEB LIABILITY TO CHANGES IN THE DISCOUNT RATE

The following presents the net OPEB liability of the System's proportionate share of the Plan as of the June 30, 2018 and 2017 measurement date, calculated using a blended discount rate that is one percentage point lower or one percentage point higher than the current rate:

Sensitivity of the Net OPEB Liability to Changes in the Discount Rate

| | Measurement Dates | | | | | | |
|-------------------------------|-----------------------|----|-----------|--|--|--|--|
| Net OPEB Liability | 2018 | | | | | | |
| Blended Discount Rate -1% | \$ 904,585 | \$ | 1,076,245 | | | | |
| Current Blended Discount Rate | 771,286 | | 912,912 | | | | |
| Blended Discount Rate +1% | 664,462 | | 782,607 | | | | |

SENSITIVITY OF THE NET OPEB LIABILITY TO CHANGES IN THE HEALTHCARE COST TREND RATES

The following presents the net OPEB liability of the System's proportionate share of the Plan if it were calculated using a healthcare trend rate that is one percentage point lower or one percentage point higher than the current rate, for measurement period ended June 30, 2018 and 2017:

Sensitivity of the Net OPEB Liability to Changes in the Healthrecare Cost Trend Rates

| | Measurement Dates | | | | | | |
|-------------------------------------|-------------------|---------|------|-----------|--|--|--|
| Net OPEB Liability | 2018 | | 2017 | | | | |
| Healthcare Cost Trend Rates -1% | \$ | 676,894 | \$ | 774,022 | | | |
| Current Healthcare Cost Trend Rates | | 771,286 | | 912,912 | | | |
| Healthcare Cost Trend Rates +1% | | 890,940 | | 1,090,087 | | | |

OPEB PLAN FIDUCIARY NET POSITION

Detailed information about the OPEB plan's fiduciary net position is available in the separately issued California Employer's Retiree Benefit Trust (CERBT) Fund financial reports.

OPEB LIABILITIES, OPEB EXPENSE AND DEFERRED OUTFLOWS AND DEFERRED INFLOWS OF RESOURCES **RELATED TO OPEB**

As of June 30, 2019 and 2018, the System reported a net OPEB liability of \$771.3 million and \$912.9 million, respectively, for its proportionate share.

For the measurement period ended June 30, 2018 and 2017, the net OPEB liability was measured by rolling forward the total OPEB liability using an actuarial valuation as of June 30, 2018 and 2017, respectively. The System's proportion of the net OPEB liability was based on the System's pay-as-you-go relative to the pay-as-you-go of all the valuation groups plan members, as calculated by the State Controller's Office. The System's proportionate share of the net OPEB liability as of June 30, 2018 and 2017 was 0.9011% and 1.0031%, respectively.

For the years ended June 30, 2019 and 2018, the System recognized OPEB expense of \$28.2 million and \$52.5 million, respectively. At June 30, 2019 and 2018, the System has deferred outflows and deferred inflows of resources related to OPEB as follows:

Deferred Outflows of Resources and Deferred Inflows of Resources

| | 2019 | | | 2018 | | | | |
|-----------------------------------------------------------|------|-------------------------|----|----------------------------|----|--------------------------|----|---------------------------|
| | | ed Outflows esources | | erred Inflows Resources | | ed Outflows Resources | | rred Inflows Resources |
| System contribution subsequent to the measurement date | \$ | 23,948 | \$ | - | \$ | 21,016 | \$ | - |
| Net differences between actual and expected contributions | | 195 | | (2,010) | | 237 | | - |
| Differences in PAY GO contributions | | 491 | | (334) | | - | | - |
| Changes in proportion | | = | | (87,994) | | - | | - |
| Changes of assumptions | | = | | (84,565) | | - | | (81,622) |
| Differences between expected and actual experience | | = | | (56,009) | | - | | - |
| Net differences between projected and actual earnings on | | | | | | | | |
| OPEB plan investments | | 12 | | (74) | | = | | (111) |
| Total | \$ | 24,646 | \$ | (230,986) | \$ | 21,253 | \$ | (81,733) |

The System reported \$23.9 million and \$21 million as deferred outflows of resources related to contributions subsequent to the measurement date of June 30, 2018 and 2017, respectively, will be/was recognized as a reduction of the net OPEB liability in the fiscal years ended June 30, 2020 and 2019, respectively. Other amounts reported as deferred outflows and inflows of resources related to OPEB will be recognized as expense as follows:

| Amortization of Deferred Outflows/(Inflows) | | | | | | | |
|---------------------------------------------|---------------------|--------------------|--|--|--|--|--|
| Deferred | | | | | | | |
| | | Outflows/(Inflows) | | | | | |
| Year Ended June 30: | ne 30: of Resources | | | | | | |
| 2020 | \$ | (26,061) | | | | | |
| 2021 | | (26,061) | | | | | |
| 2022 | | (29,583) | | | | | |
| 2023 | | (40,136) | | | | | |
| 2024 | | (40,060) | | | | | |
| Thereafter | | (68,387) | | | | | |
| Total | \$ | (230,288) | | | | | |

10. Commitments and Contingencies

COMMITMENTS

Construction

The System has entered into long-term construction contract commitments for the State Water Project facilities. The remaining value of contracts in process as of June 30, 2019 and 2018, were approximately \$75.5 million and \$38.4 million, respectively.

Power Transmission and Purchases

The System enters into contracts to purchase power as well as transmission service contracts to transmit power. Additionally, the System has expanded the power purchase portfolio to include solar energy and is exploring other potential renewable energies.

The System has long-term transmission service contracts with anticipated future payments of approximately \$97.4 million over periods ranging from one to 23 years. Payments made under these contracts approximated \$5.3 million and \$5 million for the years ended June 30, 2019 and 2018, respectively.

The System has long-term power purchase contracts with anticipated future payments of approximately \$704 million, which includes operation and maintenance expense, over periods ranging from one to 48 years. The remaining amounts of fixed obligations under the long-term power contracts as of June 30, 2019, are as follows:

| Fixed Obliga | ations | | | | |
|--------------|-----------|------|-----------|---------------|---------------|
| | Year | Trar | nsmission | Power | Total |
| | 2020 | \$ | 5,572 | \$ 39,322 | \$ 44,894 |
| | 2021 | | 5,572 | 37,284 | 42,856 |
| | 2022 | | 5,572 | 37,284 | 42,856 |
| | 2023 | | 5,572 | 37,284 | 42,856 |
| | 2024 | | 5,572 | 37,284 | 42,856 |
| | 2025-2067 | | 69,542 | 512,626 | 585,168 |
| | Total | \$ | 97,402 | \$ 704,084 | \$ 801,486 |

The System has a contract with the Kings River Conservation District (the District) which provides the System all power generated by the Pine Flat Power Plant Project (the Project). Under the contract, which expires in 2037, the System is obligated to pay fixed amounts each year to cover the debt service on bonds issued by the District to build the Project, operations and maintenance expenses, and a charge for power supplied. Debt service payments are to be made until all of the bonds issued by the District to finance the Project have been retired in fiscal 2019. As of June 30, 2019, all bonds have been fully redeemed. Payments to the District totaled approximately \$13.7 million and \$14.2 million during the years ended June 30, 2019, and 2018, respectively.

DWR entered into a Power Agreement with the Northern California Power Agency (NCPA) and other project participants in fiscal 2014 to participate in the Lodi Energy Center Project (LEC Project). The terms of the agreement provide that DWR pay for 33.5% of the construction and operating costs in exchange for receiving 33.5% of the power output of the LEC Project on a long-term basis. Participation in the LEC Project assists DWR in meeting SWP energy requirements, including the replacement of a portion of the energy previously provided by the Reid Gardner Project. NCPA issued revenue bonds for DWR's share of the costs to construct the power plant in Lodi, California in fiscal 2011. The Lodi Energy Center is one of the most efficient thermal-generating units in California, and will be economically dispatched before other older gas-fired units, resulting in power revenues that are sufficient to cover the operational costs and a portion of DWR's debt service on the bonds.

The amounts of the System's fixed obligations related to future principal and interest payments of the LEC Project's bonds as of June 30, 2019 are as follows:

| LEC Bonds Fixed Obligations | | | | | | | | |
|-----------------------------|----|---------|--|--|--|--|--|--|
| Year | | Total | | | | | | |
| 2020 | \$ | 9,209 | | | | | | |
| 2021 | | 9,207 | | | | | | |
| 2022 | | 9,209 | | | | | | |
| 2023 | | 9,209 | | | | | | |
| 2024 | | 9,211 | | | | | | |
| 2025-2029 | | 46,038 | | | | | | |
| 2030-2034 | | 46,039 | | | | | | |
| 2035 | | 9,210 | | | | | | |
| | \$ | 147,332 | | | | | | |

Market value information for certain power purchases, sales, and exchange contracts are disclosed at June 30, 2019 using forward market prices discounted at the prevailing risk-free interest rate. All purchase contracts expired in fiscal 2019. The long-term energy purchase contracts involving energy delivered from Hoover Dam will expire in fiscal 2067; the Pine Flat Power Plants, Solar Star California XLIV and Solverde Solar energy purchase contracts will expire in fiscal 2037; Dominion Solar Holdings purchase contract will expire in fiscal 2035; and two purchase contracts with the Water Contractor, Metropolitan Water District of Southern California (Metropolitan), will expire in fiscal 2020 and 2021. An exchange agreement with the NCPA, operator of the Lodi Energy Center Project, commits DWR to purchase power on a long-term basis subject to the agreement, but has no explicit termination date.

Power purchase commitments extending beyond June 30, 2019 are as follows:

| Energy Commitments 2019 | | | | |
|----------------------------|------------------------|-------------------------|---------------------------|-----------|
| | Number of Contracts | Total Capacity (MWh) | Value at June 30, 2019 | |
| Long-term energy purchases | 8 | 488 | \$ | (181,940) |
| Total | | | \$ | (181,940) |

Power purchase commitments extending beyond June 30, 2018 are as follows:

| Energy Commitments 2018 | | | | |
|----------------------------|------------------------|-------------------------|---------------------------|-----------|
| | Number of Contracts | Total Capacity (MWh) | Value at June 30, 2018 | |
| Energy purchases | 6 | 225 | \$ | (422) |
| Long-term energy purchases | 8 | 488 | | (248,025) |
| Total | | | \$ | (248,447) |

CONTINGENCIES

Litigation and Claims

Monterey Amendment

In 1994, the System and certain Water Contractors adopted a set of principles pursuant to which additional amendments to the long-term water supply contracts have since been negotiated (Monterey Amendment). The Monterey Amendment includes provisions related to the transfer of land and related assets, known as the Kern Water Bank, to the Kern County Water Agency (KCWA) (one of the Water Contractors), the operation of certain System reservoirs, transfers of water allocations between Water Contractors, establishment of certain operating reserves, and the revision of calculating certain Water Contractor billings. The Monterey Amendment has been executed by the System and 27 of the 29 Water Contractors, who receive approximately 99% of water delivered annually and who pay approximately 99% of annual water supply revenues. Certain parties have disputed the Monterey Amendment by challenging the validity of the related Environmental Impact Report (EIR). While the courts have allowed the System to proceed with the implementation of the Monterey Amendment, the System was required to prepare a new EIR. The System completed the new Final EIR in February 2010 and filed its Notice of Determination in May 2010. In June 2010, two Delta water agencies and several environmental organizations and individuals filed a lawsuit in Sacramento Superior Court challenging the System's California Environmental Quality Act (CEQA) compliance and the validity of the Monterey Amendment, including DWR's transfer of the Kern Fan Element to the KCWA. In July 2010, the same plaintiffs in the Sacramento Superior Court case filed a lawsuit in Kern County Superior Court challenging the transfer of the Kern Fan Element from KCWA to the Kern Water Bank Authority, a local joint powers agency which now has responsibility for the management of the Kern Fan Element and Kern Water Bank. In addition, in June 2010, two water districts in Kern County filed a separate lawsuit in Kern County Superior Court, primarily challenging the System's CEQA compliance with respect to the Kern Fan Element transfer from the System to KCWA. The two lawsuits filed in Kern County Superior Court were transferred to the Sacramento Superior Court. In December 2012, the System prevailed on its challenge to the plaintiffs' validation causes of action (including the validity of the Kern Fan Element transfer) on the grounds that they were not filed timely. This left only the plaintiffs' CEQA compliance challenge. After holding a hearing on the CEQA challenges in the remaining two cases, the trial court ruled that most of the EIR was adequate under CEQA, but that the EIR's discussion of impacts on continued use and operation of the Kern Water Bank was deficient.

In October 2014, the Court ordered the System, as the remedy for the deficiency, to provide additional environmental analysis on the impacts of the continued use and operation of the Kern Water Bank in a revised EIR and upon completion of the revised EIR, to determine whether to continue the use and operation of the Kern Water Bank by the Kern Water Bank Authority. The court limited its decision to the Kern Water Bank by ruling that only those portions of the revised EIR that are new or changed shall be subject to challenge under CEQA. In December 2014, one set of plaintiffs filed an appeal with the Court of Appeal regarding the trial court's final CEQA and validation decisions. In September 2016, the System issued the revised EIR in compliance with the trial court's decision. Shortly thereafter, one set of plaintiffs, as well as a new party, filed a new action challenging the revised EIR. The new action challenges the System's certification of the revised EIR and approval of the "Kern Water Bank Development and Continued Use and Operation" project. In October 2017, the trial court ruled in favor of the Department and in December 2017, the plaintiffs appealed that ruling. The System, however, does not believe that there will be any material adverse impact on the System's financial position or results from operations, even if these lawsuits are successful.

Other Claims by Water Contractors, Including Claims Concerning Charges for Recreation and Fish and Wildlife Enhancement

In accordance with the long-term water supply contracts, in December 2005, 27 Water Contractors and entities representing Water Contractors filed "Notices of Contest" with the System challenging the accuracy of various charges in the System's billings. One Water Contractor also filed a claim based on its Notice of Contest with the Victim Compensation and Government Claims Board. The System has been reviewing these Notices of Contest and investigating the items raised.

One item that has been determined to have merit, contested the System's practice of charging the Water Contractors for certain financing costs of the recreation and fish and wildlife enhancement portion of facilities financed with Water System Revenue Bonds. The System rectified the situation by restating past bills to provide appropriate credits back to the Water Contractors for the contested charges and taking other actions to pay for the costs of the recreation and fish and wildlife enhancement portion of System facilities with sources other than charges to the Water Contractors. Such actions included DWR entering into Tolling and Waiver Agreements in 2007 and 2008 with the 28 Contractors, which included certain waivers allowing DWR to resume issuing revenue bonds in May 2008. The Water Contractors that have signed the Tolling and Waiver Agreements have more than 99 percent of the Table A amounts and make more than 99 percent of the annual Water Supply Contract payments.

In addition to waivers included in the 2007 and 2008 Tolling and Waiver Agreements, which helped to facilitate the resumption of the sale of System Revenue Bonds, the Tolling and Waiver Agreements, as amended, also tolls (i.e. suspends) until December 31, 2021 the running of the time period and statute of limitations for filing by the Water Contractors of (1) protests regarding the System's bills to the Water Contractors for the years 2007 through 2022, (2) claims arising from the System's revisions to prior year invoices that were made to adjust for improper charges to the Water Contractors for recreation and fish and wildlife enhancement costs, and (3) certain other specified claims. The Tolling and Waiver Agreements also tolled the running of the time period for bringing an action on the Victim Compensation and Government Claims Board claim regarding the 2006 invoice that was filed by one of the Water Contractors. In the meantime, the System and Water Contractors are continuing their efforts to resolve issues that are covered by the Tolling and Waiver Agreements. One such issue was raised in an October 2019 letter the System received from the Metropolitan Water District of Southern California which asserted, among other items, that a provision in the

Water Supply Contracts precludes the System from seeking reimbursement from the Water Contractors for their allocated share of claims and damages related to the control, carriage, handling, use, disposal or distribution of System water prior to the delivery of water to the Water Contractors. In the opinions of management and the System's legal counsel such allocated amounts have been properly included in past bills to the Water Contractors and will continue to be recoverable from the Water Contractors in the future under the long-term water supply contracts. However, no assurance can be given that the Water Contractors will not file additional Notices of Contest, claims and/or lawsuits with respect to the issues under discussion, or that the System's positions on the issues will prevail, once the Tolling and Waiver Agreements expire.

Federal Energy Regulatory Commission Proceedings

There are a number of proceedings pending before the Federal Energy Regulatory Commission (FERC) that may impact the cost of System operations. Some of these proceedings address requests from the California Independent System Operator (CAISO), investor-owned utilities, and others to increase or adjust rates or allocate responsibility for costs for transmission and other services provided to the System and other entities in California. The System is participating in these proceedings, since the outcome of these proceedings has the potential to increase the System's annual power costs. However, the System does not believe that any increased charges arising from these proceedings will materially impact the System's financial position or changes in financial position. Any increased charges will be passed through to the Water Contractors under the long-term water supply contracts in the form of higher operations charges.

2017 Oroville Dam Spillway Emergency and Feather River Flooding

As described in Note 15, "Significant Events," historical amounts of rainfall occurred in January and February 2017 causing widespread flooding throughout California, including in the Oroville and Feather River area. As further described in Note 15, during the storms and rainfall, significant damage occurred to both the control spillway and emergency spillway at Oroville Dam. As a result, DWR operated the control spillway and Dam facilities to address this situation. In addition, because of a concern about the potential failure of the emergency spillway, the Butte County Sheriff issued an evacuation order for Oroville and the surrounding communities on February 12, 2017. The evacuation order was lifted on February 14, 2017. A number of claims and lawsuits have been filed as a result of these events.

Approximately 400 claims were filed with the Government Claims Program in the Department of General Services. This program was formerly a program within the Victims Compensation and Government Claims Board. Most of the claims were filed by individuals and businesses claiming damages resulting from their compliance with the February 12, 2017, Butte County Sheriff's evacuation order. The Government Claims Program rejected these claims, which required the claimants to file a lawsuit within six months of the rejection to pursue their claims in court.

Two separate class action lawsuits have been filed. The first is a class action on behalf of approximately 188,000 potential class members residing in areas along the Feather River, including Oroville, Marysville, and Yuba City. This suit alleges, among other things, that property values have decreased due to the proximity to the Oroville Dam and that other costs were incurred in complying with the emergency evacuation order. The other class action identifies three classes of plaintiffs: 1) the "Diminution Class," i.e., plaintiffs who allege diminution in property value; 2) the "Property Loss Class," i.e., plaintiffs who allege property loss; and 3) the "Business Loss Class," i.e., plaintiffs who allege lost business income. The coordination trial judge granted DWR's Motion to Defeat Class Certification. The plaintiffs in the first lawsuit filed an

appeal. To date, the plaintiffs in the second lawsuit have not.

The City of Oroville and the County of Butte have each filed separate lawsuits seeking damages to reimburse each such public entity for costs and losses they claim they suffered as a result of the response and evacuation at Oroville. The lawsuit filed by the County of Butte has been settled.

Other lawsuits have been filed by agricultural land owners and other land owners whose property adjacent to the Feather River was flooded. These lawsuits allege, among other things, that DWR's operation of the Oroville Dam facilities caused damages to their property and agricultural crops. A separate lawsuit filed by South Feather Water & Power Agency has been settled.

In addition, Pacific Gas and Electric Company filed a lawsuit seeking reimbursement and damages for costs it incurred to relocate electric facilities and to engineer and construct temporary electric facilities in the vicinity of Oroville Dam during the emergency.

The County of Butte District Attorney also filed a lawsuit seeking civil penalties of up to \$51 billion for an alleged violation of the Fish and Game Code arising from the release of sediment into the Feather River during the emergency, which is being vigorously contested by the Department. In June 2019, the Department received a letter from the State Water Contractors organization which asserted that a provision in the water supply contracts would preclude the Department from seeking reimbursement from the Water Contractors for their allocated share of any judgment or settlement amount in the Butte County lawsuit. In the opinions of management and the Department's legal counsel such allocated amounts, if incurred, would be recoverable from the Water Contractors under the long-term water supply contracts.

All of the above lawsuits have been coordinated for purposes of pre-trial activities and been transferred to the Sacramento County Superior Court. Discovery and depositions in the coordinated cases have been and are continuing to be conducted. Other pre-trial motions, including the motion to certify the class in the class action lawsuit and a motion to continue the trial date have, or will take place shortly. Unless otherwise noted above, the eventual outcome of these lawsuits is uncertain. The Department, however, continues to defend itself against these claims and lawsuits and believes they will not have a material adverse effect on its ability to continue to operate and maintain the System and pay its related liabilities.

Water Supply Contract Extension Litigation

As discussed on the transmittal letter, the Director of DWR approved the contract extension amendment project under CEQA and executed the amendment with Metropolitan on December 11, 2018 and as of April 1, 2020, twenty-one Contractors have executed the extension amendment with the Department.

On the same date that the Director executed the first contract extension amendment, December 11, 2018, the Department filed an action in Sacramento County Superior Court seeking to validate the contract extension amendment. In February 2019, four groups filed answers in the validation action in opposition to the Department's request to validate the amendment. One answer was filed by several environmental organizations; the second answer was filed by several other environmental organizations and an Indian Tribe; the third answer was filed by a number of counties and public water agencies, including the County of Butte and the Plumas County Flood Control and Water Conservation District,

both of which are Contractors; and the fourth answer was filed by the South Delta Water Agency. Six Contractors have filed answers in support of the extension amendment.

All three cases – the validation action and the two environmental lawsuits – have been determined to be related and assigned to a single judge in the Sacramento Superior Court for all purposes. These cases are currently in the pre-trial stage.

General

The System, during the ordinary course of its operations, has been named in a number of additional suits and claims, several of which are still pending. In the opinions of management and the System's legal counsel, such legal actions will not have a material effect on the System's financial position or changes in financial position.

California WaterFix

In 2006, the DWR, the U.S. Bureau of Reclamation (USBR), Department of Fish and Wildlife (DFW), federal and state fish and wildlife agencies, and the agencies that purchase water from DWR and the USBR began a planning process to promote and improve the overall ecological health of the Delta and the species that inhabit the Delta. This resulted in the proposed Bay Delta Conservation Plan (BDCP). The BDCP eventually transitioned to the California WaterFix.

In April 2015, DWR and State and federal agencies decided to consider additional alternatives to the BDCP and announced a change in the proposed project to accomplish the dual goals of improving the ecological health of the Delta and securing reliable water supplies. Under the new proposed project, referred to as California WaterFix, implementation of new water conveyance facilities would be authorized under the different provisions of the Endangered Species Act (ESA) and California Endangered Species Act (CESA). California WaterFix consists of an underground conveyance facility, three northern Delta intakes, and mitigation measures and environmental commitments to meet the requirements of California Environmental Quality Act (CEQA), National Environmental Policy Act (NEPA), Section 7 of ESA, and Section 2081 of CESA and other environmental requirements.

DWR and USBR issued a final Environmental Impact Report (EIR) and Environmental Impact Statement, respectively, in December 2016. On July 21, 2017, DWR certified the final EIR, adopted findings and a statement of overriding considerations, adopted the Mitigation, Monitoring and Reporting Program for the Bay Delta Conservation Plan/ California WaterFix, and approved the California WaterFix. The Notice of Determination (NOD) was filed with the Office of Planning and Research on July 21, 2017, as well.

Eighteen separate lawsuits were filed challenging the Department's decision under CEQA. Several of these lawsuits included causes of action against DFW regarding issuance of an incidental take permit to the Department under CESA. DWR has conducted settlement meetings with these plaintiffs, with one lawsuit being settled, and addressed with plaintiffs the preparation of the administrative record for the CEQA litigation process. On the same day as the filing of the NOD, DWR filed a validation action in Sacramento County Superior Court to confirm the validity of a proposed financing approach for the California WaterFix, which may involve the Department issuing bonds that are not issued under the Resolution or secured by Revenues but instead are issued under a separate authorizing resolution and are secured by a separate payment stream paid by the Water Contractors. Numerous entities and organizations supporting and opposing the California WaterFix filed answers to this action. The validation action was coordinated with the previously described

CEQA and CESA lawsuits in Sacramento County Superior Court.

In August 2015, DWR and USBR filed a joint petition with the State Water Resources Control Board (SWRCB) to add three new points of diversion and rediversion under existing water right permits. Changes to the Department's water rights are required for the construction of new intakes for the proposed California WaterFix. The hearing was conducted in two parts, the first addressing potential effects of the change on agricultural, municipal and industrial uses of water and the second focusing on fish and wildlife, recreational uses and the consideration of appropriate Delta flow criteria. The hearing on part one began in July 2016. Numerous entities/parties opposing the proposed project filed protests with the SWRCB and participated in the hearing. Part one was completed in July 2017, while part two of the hearing began in February 2018 and concluded in August 2018. No determination was reached.

In his first State of the State Address, delivered on February 12, 2019, Governor Newsom laid out a new direction for delta conveyance and expressed support for a revised conveyance project consisting of a single tunnel. DWR assessed the nature and extent of any new permit and planning work that may be necessary as a result of the Governor's statements. On April 29, 2019, Governor Newsom issued Executive Order N-10-19, which detailed his new policy direction regarding water issues in the state, including Delta conveyance, and directed several state agencies to take action implementing his policies. On May 2, 2019, DWR took several actions as a result of the Executive Order, including rescinding all project approvals for the California WaterFix and withdrawing its Petition for Change in Points of Diversion and Rediversion and Application for Section 401 Certification. This withdrawal ended the water rights hearing before the SWRCB. On several dates in July 2019, DWR and all plaintiffs in the coordinated actions filed requests for dismissal in the various coordinated lawsuits. The court thereafter dismissed the coordinated lawsuits. On August 23, 2019, ten plaintiff groups filed motions for attorney fees and memoranda of costs. On January 9, 2020, the Sacramento Superior Court denied all plaintiff's motions and the hearing, originally set for January 10, 2020 was taken off calendar as no parties requested oral argument. As of April 15, 2020, six parties have filed motions of appeal of the Sacramento Superior Court's January 9, 2020 ruling.

Pollution Remediation

Pollution remediation obligations are recorded by the System when an obligating event occurs, as defined in GASB Statement No. 49, and if a reasonable estimate of the remediation costs can be made. These liabilities are measured using either actual contract costs, where no change in cost is expected, or the estimated remediation costs, offset by estimated recoveries from other responsible parties and expenditures incurred to date. Estimated remediation costs are subject to change over time. Estimated costs are revised for updated technology, changes in potential responsible parties, results of environmental studies, changes in statutes or regulations, price fluctuations and other factors.

Six different locations require pollution remediation, including previously-owned Reid Gardner Unit 4 in Nevada, Methyl Mercury Control programs in the Delta, and landfill sites at Banks Pumping Plant, Pearblossom O&M Center, Oroville Wildlife Area southwest of Oroville, and Del Valle Pumping Plant. In addition, the liability for pollution remediation includes the GHG emissions credits to be surrendered to California Air Resources Board (CARB).

The following table presents the pollution remediation liability for the years ended June 30, 2019 and 2018:

| Pollution Remediation Liabilities | | | | |
|-----------------------------------|--------------|----|---------|--|
| | 2019 | | 2018 | |
| Reid Gardner Power Plant | \$ 25,679 | \$ | 22,520 | |
| Delta Mercury Control Program | 2,802 | | 6,316 | |
| Green House Gas Emissions Credits | 13,650 | | 10,859 | |
| Banks Pumping Plant | 5,929 | | 6,100 | |
| Pearblossom O&M Center | 2,433 | | 2,318 | |
| Oroville Wildlife Area | 1,348 | | 1,284 | |
| Del Valle Pumping Plant | 495 | | 471 | |
| Total Liabilities | 52,336 | | 49,868 | |
| Less current portion | (10,358) | | (8,557) | |
| Total Long-term liabilities | \$ 41,978 | \$ | 41,311 | |

Reid Gardner Power Plant

The Reid Gardner Power Plant ("RG"), located near Moapa, Nevada, was operated by Nevada Energy ("NVE") and consisted of four coal-powered generators—Units 1 through 4. DWR's ownership interest in Unit 4 of the Reid Gardner coal plant terminated in 2013, but the plant continued to generate electricity until early 2017. The remediation costs described below are being shared under an Environmental Agreement in proportion to DWR's ownership interest, executed along with the Termination Agreement between NVE and DWR, in 2013.

In February 2008, NVE entered into an Administrative Order on Consent ("AOC") with the Nevada Division of Environmental Protection ("NDEP"). Pursuant to the AOC, NVE agreed to undertake investigatory activities into various potential areas of contamination at RG and also to ultimately remediate groundwater, soils and other contamination at the RG facility, as needed, or mitigate adverse impacts. Groundwater and soils have been affected by certain constituents of concern associated with flue gas desulfurization effluent settlement in evaporation ponds. Since some of this contamination can be associated with the Unit No. 4 generation related facilities (such as the Unit 4 evaporation ponds) DWR has agreed to share the cost of NVE's investigatory activities, which may ultimately lead to the remediation measures prescribed by NDEP to NVE. These activities are projected to continue through at least 2032.

The System expended approximately \$1.3 million in both fiscal 2019 and 2018. DWR expects to pay \$5.4 million of the total estimated financial liability during fiscal 2020.

Delta Mercury Control Program

In June 2011, the State Water Resources Control Board ("SWRCB") adopted an amendment to the Sacramento-San Joaquin Delta Basin Plan regarding the control of methyl mercury in the Delta. The amendment, among other provisions, assigns certain responsibilities jointly to DWR (with regard to both the System and DWR's flood management programs), the Central Valley Flood Protection Board and the State Lands Commission to reduce methyl mercury in the

open waters of the Delta. In addition, DWR and others are assigned certain responsibilities regarding the discharge of methyl mercury from wetland and other aquatic restoration and enhancement projects. The System expended approximately \$1.3 million in fiscal 2019 and \$1.2 million in fiscal 2018.

The State Water Resources Control Board ("SWRCB") is currently developing a statewide mercury regulation applicable to inland waters, including reservoirs. Once finalized, DWR will be responsible for meeting fish tissue and or water quality objectives statewide in DWR reservoirs identified by the regulation. Currently, nine DWR reservoirs have been identified by the SWRCB for regulation. However, there is insufficient information currently available to enable DWR to estimate the timing and magnitude or the System's share of potential compliance costs, if any, at this time.

Green House Gas Emissions Credits

The System is required to report and recognize the liability related to certain vintage years of the LEC Project under AB32. Each year the GHG allowances held in UPIS as an Intangible Asset, are evaluated and reported by the Power and Risk Analysis Office to CARB to be charged as pollution remediation expenses and a liability is recognized. The System's market analysis value of total compliance instruments to be surrendered is \$13.7 million. The System surrendered \$3.5 million and \$259 thousand of compliance instruments under this program during fiscal 2019 and 2018, respectively.

Other Construction Sites

During the construction of the System, DWR created at least three landfill sites for construction debris and waste, including the Harvey O. Banks Pumping Plant and Intake Channel, Pearblossom Pumping Plant Enlargement, and Oroville Wildlife Area. The landfill sites are closed and monitored by DWR. Two of the sites are routinely inspected by county officials.

Evidence of burrowing has been detected at the Harvey O. Banks Pumping Plant. DWR is addressing the burrowing issue by constructing a new burrowing resistant. This project is in the design phase currently, awaiting approval by CalRecycle and Contra Costa County. Construction is projected to go from April to August 2020. It is noted that no hazardous substances or hazardous wastes are known to be part of the waste; at this time the landfill waste is believed to consist only of construction debris. The System expended approximately \$273 thousand during fiscal 2019.

Remediation activities have not formally commenced at the other two sites, however, DWR expects such activities to occur in the future. DWR will continue to refine estimated remediation liabilities associated with these three sites.

During the 1990s, DWR noted waste and debris at a fourth site, the Del Valle Pumping Plant, to be eroding from the bank of Arroyo Valle Creek and into the channel. Initial clean-up of surface debris was conducted in the spring of 1996 followed by slope stability, waste removal, and erosion control construction in July 1996. The site is listed as a closed landfill subject to periodic inspection by the Alameda County Department of Public Health, and DWR was identified as the responsible party for maintenance. Recent communication between Alameda County and Delta FD indicates potential regulatory action could occur soon. DWR will continue to refine the estimated remediation liability associated with this site.

11. Self-Insurance

The System is self-insured for all completed facilities of the SWP. The System is also self-insured for workers' compensation, general liability and other risks. All workers' compensation claims and other losses are on a pay-as-yougo basis. The Water Supply Contracts provide for recovery of such losses from the Water Contractors. Additionally, the CVP act and the related bond resolutions authorize the issuance of additional bonds, payable from available revenues or federal reimbursements under the National Disaster Act, for the purpose of providing funds for emergency repairs to power projects or water system projects necessitated by natural disasters, provided that certain conditions are met.

DWR has purchased automobile insurance for its fleet of vehicles through the California Department of General Services, Office of Risk & Insurance Management, and certain amounts are assessed to the System while some amounts may be directly charged for those vehicles owned specifically by the System.

As described in Note 10, "2017 Oroville Dam Spillway Emergency and Feather River Flooding," a number of claims and lawsuits have been filed as a result of the event. Liabilities are reported when it is probable that a loss has occurred, and the amount of the loss can be reasonably estimated. Liabilities include an estimated amount for claims that have been incurred but not reported. Claims liabilities are calculated considering the effect of recent claim settlement trends including frequency and amount of payouts, and other economic and social factors. The following table presents the claim liabilities for the year ended June 30, 2019:

| Unpaid Claims Liabilities | |
|---------------------------|--------------|
| | 2019 |
| Unpaid claims, beginning | \$ - |
| Incurred claims | 52,259 |
| Claims payments | _ |
| Unpaid claims, ending | \$ 52,259 |

12. Economic Dependency

The System's water supply revenue is generally derived from the 29 Water Contractors. The highest percentage of water supply revenues came from the Metropolitan Water District of Southern California. The following table shows total water supply revenues billed to Water Contractors including cover, refunds, and adjustments which exceeded 5% of the total water supply revenues sold by the System:

| Water Supply Revenues | | | | | | |
|---------------------------------|------|---------|---------|---------------|---------|--|
| | 2019 | | % Total | 2018 | % Total | |
| The Metropolitan Water District | \$ | 565,123 | 51.28% | \$ 563,746 | 50.30% | |
| Kern County Water Agency | | 119,531 | 10.85% | 131,042 | 11.69% | |
| San Bernardino Valley MWD | | 71,409 | 6.48% | - | - | |
| Coachella Valley Water District | | - | - | 65,006 | 5.80% | |

The System sold power to 13 and 7 power entities during the years ended June 30, 2019 and 2018, respectively. The highest percentage of power revenues came from the CAISO. The following table shows power sales to entities which exceeded 5% of the total power sold by the System:

| Power Sales | | | | | | | |
|----------------------------------------|-----------|-------|---------|--------------|---------|--------|--------|
| | 2019 | | % Total | 2018 | % Total | | |
| California Independent System Operator | \$ 56,472 | | 58.64% | \$ 63,644 | 72.20% | | |
| Northern California Power Agency | 26,843 | | 26,843 | | 27.87% | 17,638 | 20.01% |
| Western Area Power Administration | | 8,116 | 8.43% | 6,209 | 7.04% | | |

Similarly, the System purchased power from 19 power entities during the years ended June 30, 2019 and 2018. The highest percentage of power provided to the System came from the CAISO. The following table shows power purchases from entities which exceeded 5% of the total power purchased by the System:

| Power Purchases | | | | | | |
|----------------------------------------|------------|--------|---------|---------------|---------|---|
| | 2019 | | % Total | 2018 | % Total | _ |
| California Independent System Operator | \$ 191,047 | | 65.67% | \$ 236,195 | 69.04% | |
| Northern California Power Agency | | 33,899 | 11.65% | 25,805 | 7.54% | |
| Kings River Conservation District | | 15,939 | 5.48% | - | - | |

13. Segment Information

The table below presents the condensed statement of net position, the statement of revenues, expenses and changes in net position and the statement of cash flows for the System's two segments, as of and for the years ended June 30, 2019 and 2018.

| Segment | | | | | | | | | | | |
|-----------------------------------------------------------------------|----------------------|----------|------------------------------|----------|----------------------|----------|----------------------|------------|----------------------------|----------|----------------------|
| | | | 2019 | | | | | (<i>A</i> | 2018 As restated) | | |
| | Ac | tiviti | es Allowed Un | der | | | Act | tivities | s Allowed Un | der | |
| | Burns-Porter Act | | entral Valley Project Act | | Total | Burr | ns-Porter Act | | ntral Valley roject Act | | Total |
| Condensed Statement of Net Position: | | | | | | | | | | | |
| Current Assets | \$ 565,345 | \$ | 516,224 | \$ | 1,081,569 | \$ | 507,261 | \$ | 384,563 | \$ | 891,824 |
| Other Assets | 1,542,850 | | 244,400 | | 1,787,250 | | 1,485,481 | | 235,875 | | 1,721,356 |
| Capital Assets | 1,047,674 | _ | 4,473,288 | _ | 5,520,962 | | 1,031,684 | | 3,934,573 | _ | 4,966,257 |
| Total Assets Deferred outflows of resources | 3,155,869 157,681 | | 5,233,912 | | 8,389,781 296,613 | | 3,024,426 251,646 | | 4,555,011 | | 7,579,437 401.026 |
| Total assets and deferred | 137,001 | _ | 138,932 | _ | 270,013 | | 231,040 | | 149,380 | _ | 401,020 |
| outflows of resources | \$ 3,313,550 | \$ | 5,372,844 | \$ | 8,686,394 | \$ | 3,276,072 | \$ | 4,704,391 | \$ | 7,980,463 |
| Liabilities | | | | | | | | | | | |
| Current liabilities | \$ 217,901 | \$ | 514,267 | \$ | 732,168 | \$ | 143,956 | \$ | 495,340 | \$ | 639,296 |
| Noncurrent liabilities | 1,496,592 | | 3,802,273 | | 5,298,865 | | 1,720,685 | | 3,356,660 | | 5,077,345 |
| Total liabilities | 1,714,493 | | 4,316,540 | | 6,031,033 | | 1,864,641 | | 3,852,000 | | 5,716,641 |
| Deferred inflows of resources | 956,920 | _ | 532,092 | _ | 1,489,012 | | 725,378 | | 344,406 | | 1,069,784 |
| Total liabilities and deferred inflows of resources | 2.671.413 | | 4,848,632 | | 7.520.045 | | 2,590,019 | | 4,196,406 | | 6,786,425 |
| innows of resources | 2,0/1,413 | _ | 4,040,032 | _ | 7,320,043 | _ | 2,590,019 | _ | 4,190,400 | _ | 0,780,423 |
| Net position | | | | | | | | | | | |
| Net investment in capital assets | 608,195 | | 175,091 | | 783,286 | | 645,187 | | 297,431 | | 942,618 |
| Restricted | 33,942 | _ | 349,121 | _ | 383,063 | | 40,866 | | 210,554 | | 251,420 |
| Total net position | 642,137 | _ | 524,212 | _ | 1,166,349 | | 686,053 | | 507,985 | | 1,194,038 |
| Total liabilities, deferred inflows of resources, and net position | \$ 3,313,550 | \$ | 5,372,844 | \$ | 8,686,394 | \$ | 3,276,072 | \$ | 4,704,391 | \$ | 7,980,463 |
| | | <u>-</u> | -77 | <u> </u> | -,, | <u> </u> | 0,2:0,0:2 | _ | 1,100,100 | <u> </u> | 1,100,100 |
| Condensed Statements of Revenues , Expenses, | and Changes in N | et Po | sition: | | | | | | | | |
| Operating revenues | | | | | | | | | | | |
| Water supply | \$ 764,413 | | 246,338 | \$ | 1,010,751 | \$ | 840,698 | \$ | 235,540 | \$ | 1,076,238 |
| Power sales Federal and State reimbursements | 96,272 21,497 | | 36 21,096 | | 96,308 42,593 | | 88,112 21,081 | | 36 21,046 | | 88,148 42,127 |
| rederal and State reimbursements | 882,182 | _ | 267,470 | _ | 1,149,652 | | 949,891 | | 256,622 | _ | 1,206,513 |
| | • | | • | | | | , | | | | |
| Depreciation and amortization | (21,827) | | (72,364) | | (94,191) | | (20,987) | | (59,114) | | (80,101) |
| Other operating expense | (734,362) | _ | (49,811) | _ | (784,173) | | (801,157) | | (31,667) | | (832,824) |
| Income from operations | 125,993 | | 145,295 | | 271,288 | | 127,747 | | 165,841 | | 293,588 |
| Nonoperating revenues/expenses | | | | | | | | | | | |
| Capital revenues recovered (deferred), ne | | | (188,932) | | (334,870) | | (181,237) | | (113,627) | | (294,864) |
| Interest expense Transfers In/(Out) | (5,800) (27,928) | | (110,681) 27,928 | | (116,481) | | (3,404) | | (102,025) 62,864 | | (105,429) |
| Investment income (loss), net | 9,755 | | 12,727 | | 22,482 | | 5,837 | | 9,516 | | 15,353 |
| Other revenues (expenses), net | | | 129,892 | | 129,892 | | - | | 42,493 | | 42,493 |
| Total nonoperating revenues/expenses | (169,911) | | (129,066) | | (298,977) | | (241,668) | | (100,779) | | (342,447) |
| Increase (decrease) in net position | (43,918) | | 16,229 | | (27,689) | | (113,921) | | 65,062 | | (48,859) |
| Net position, beginning of year, as restated | 686,054 | | 507,984 | | 1,194,038 | | 799,975 | | 442,922 | | 1,242,897 |
| Net position, end of year | \$ 642,136 | \$ | 524,213 | \$ | 1,166,349 | \$ | 686,054 | \$ | 507,984 | \$ | 1,194,038 |
| Condensed Statements of Cook Flavor | | | | | | | | | | | |
| Condensed Statements of Cash Flows: Net cash provided by (used in) | | | | | | | | | | | |
| Operating activities | \$ 153,757 | \$ | 197,048 | \$ | 350,805 | \$ | 169,020 | \$ | 329,005 | \$ | 498,025 |
| Capital and related financing activities | (159,133) | | (219,426) | ~ | (378,559) | 7 | (116,803) | ~ | (469,823) | * | (586,626) |
| Investing activities | 9,939 | | 11,760 | | 21,699 | | 5,830 | | 18,704 | | 24,534 |
| Net (decrease) increase in | _ | | | | | | | | | | |
| cash and cash equivalents | 4,563 | | (10,618) | | (6,055) | | 58,047 | | (122,114) | | (64,067) |
| Cash and equivalents, beginning of year | 454,679 | | 424,000 | <u>+</u> | 878,679 | <u>_</u> | 396,632 | <u>¢</u> | 546,114 | <u></u> | 942,746 |
| Cash and equivalents, end of year | \$ 459,242 | \$ | 413,382 | \$ | 872,624 | \$ | 454,679 | \$ | 424,000 | \$ | 878,679 |

14. New Governmental Accounting Standards

GASB Statement No. 83

In November 2016, the GASB issued Statement No. 83, Certain Asset Retirement Obligations. This Statement addresses accounting and financial reporting for certain asset retirement obligations (AROs). An ARO is a legally enforceable liability associated with the retirement of a tangible capital asset. The requirements of GASB No. 83 are effective for fiscal 2019 and thereafter but the System does not currently have any AROs based on the guidelines in this Statement.

GASB Statement No. 84

In January 2017, the GASB issued Statement No. 84, Fiduciary Activities. This objective of this Statement is to improve quidance regarding the identification of fiduciary activities for accounting and financial reporting purposes and how those activities should be reported. The requirements of GASB No. 84 are effective for fiscal 2020 and thereafter. The System is currently evaluating the impact this Statement will have on its financial statements.

GASB Statement No. 87

In June 2017, the GASB issued Statement No. 87, Leases. The objective of this Statement is to better meet the information needs of financial statement users by improving accounting and financial reporting for leases by governments. The requirements of GASB No. 87 are effective for fiscal year 2021 and thereafter. The System is currently evaluating the impact this Statement will have on its financial statements.

GASB Statement No. 88

In March 2018, the GASB issued Statement No. 88, Certain Disclosures Related to Debt, including Direct Borrowings and Direct Placements. The primary objective of this Statement is to improve the information that is disclosed in notes to government financial statements related to debt, including direct borrowings and direct placements. It also clarifies which liabilities governments should include when disclosing information related to debt. The requirements of GASB No. 88 are effective for fiscal year 2019 and thereafter. The financial statement items in connection with GASB No. 88 are presented in this fiscal year financial statements.

GASB Statement No. 89

In June 2018, the GASB issued Statement No. 89, Accounting for Interest Cost Incurred before the End of a Construction Period. The objectives of this Statement are (1) to enhance the relevance and comparability of information about capital assets and the cost of borrowing for a reporting period and (2) to simplify accounting for interest cost incurred before the end of a construction period. The requirements of GASB No. 89 are effective for fiscal year 2021 and thereafter. The System is currently evaluating the impact this Statement will have on its financial statements.

GASB Statement No. 90

In August 2018, the GASB issued Statement No. 90, Majority Equity Interests. The objectives of this Statement are to improve the consistency and comparability of reporting a government's majority equity interest in a legally separate organization and to improve the relevance of financial statement information for certain component units. The requirements of GASB No. 90 are effective for fiscal year 2020 and thereafter. The System is currently evaluating the

impact this Statement will have on its financial statements.

GASB Statement No. 91

In May 2019, the GASB issued Statement No. 91, Conduit Debt Obligations. The primary objectives of this Statement are to provide a single method of reporting conduit debt obligations by issuers and eliminate diversity in practice associated with (1) commitments extended by issuers, (2) arrangements associated with conduit debt obligations, and (3) related note disclosures. The requirements of GASB No. 91 are effective for fiscal year 2022 and thereafter. The System is currently evaluating the impact this Statement will have on its financial statements.

GASB Statement No. 92

In January 2020, the GASB issued Statement No. 92, Omnibus 2020. The objectives of this Statement are to enhance comparability in accounting and financial reporting and to improve the consistency of authoritative literature by addressing practice issues that have been identified during implementation and application of certain GASB Statements. The requirements of GASB No. 92 are effective for fiscal year 2021 and thereafter. The System is currently evaluating the impact this Statement will have on its financial statements.

GASB Statement No. 93

In March 2020, the GASB issued Statement No. 93, Replacement of Interbank Offered Rates. The objective of this Statement is to address those and other accounting and financial reporting implications that result from the replacement of an interbank offered rate. The requirements of GASB No. 93 are effective for fiscal year 2021 and thereafter. The System is currently evaluating the impact this Statement will have on its financial statements.

GASB Statement No. 94

In March 2020, the GASB issued Statement No. 94, Public-Private and Public-Public Partnerships and Availability Payment Arrangements. The objective of this Statement is to improve financial reporting by addressing issues related to public-private and public-public partnership arrangements. The requirements of GASB No. 94 are effective for fiscal year 2023 and thereafter. The System is currently evaluating the impact this Statement will have on its financial statements.

15. Significant Events

After historical amounts of rainfall occurred in January and February 2017 causing widespread flooding throughout California, including in the Oroville and Feather River area, California Governor Edmund G. Brown issued four Proclamations of a State of Emergency between, January 23, 2017 and March 7, 2017, addressing areas of flooding and potential flooding throughout the State, including at Oroville Dam. In February 2017, after a particularly significant amount of rainfall, erosion was discovered on the lower chute of the control spillway at Lake Oroville and in the areas on the hillside beneath the emergency spillway.

Over the next several months of winter storms, the Department of Water Resources (the Department) successfully managed outflow and Lake Oroville levels while actively working to return both the control spillway and the emergency spillway to original design capacity. On November 1, 2017, the Department met its first milestone of repairing and reconstructing of the control spillway to handle the release of outflows up to 100,000 cubic feet per second. The control

spillway is expected to reach its overall outflow capacity (based on its original design) by November 2018.

While the Oroville Dam itself has not shown any signs of adverse effects from the spillway incident and remains structurally sound, costs associated with the recovery and restoration efforts of the Oroville Dam spillways totaling approximately \$1,021 million as of June 30, 2019, are recorded in construction work in progress (CWIP).

In April 2017, President Donald J. Trump issued a Federal Major Disaster Declaration for areas in California affected by the severe storms and flooding, which will provide for, among other things, a federal contribution to the costs of the Department's emergency response activities and to the repair and replacement work at Oroville Dam. The Department received approximately \$73 million of approved Federal Emergency Management Agency (FEMA) Disaster Grant funds as of June 30, 2019. This non-exchange disaster grant was used to mitigate response and recovery costs of the Oroville Spillway Emergency by paying-off commercial paper borrowings related to the ongoing emergency Oroville Spillway recovery and restoration capital costs. Additional FEMA disaster grants are anticipated to be received in subsequent years. The Department will continue to submit expenditures to FEMA for reimbursement. Adverse financial impact is not anticipated as any remaining Oroville Emergency Spillway short-term commercial paper liability amounts not reimbursed by FEMA, will be financed with long-term Revenue Bonds and be recovered through the capital charge to the State Water Project Contractors.

REQUIRED SUPPLEMENTARY INFORMATION

Schedule of the System's Proportionate Share of the Net Pension Liability

Last 10 Years* (in thousands)

| Fiscal Year | 2019 2018 | | 2017 | 2017 2016 | |
|--------------------------------------------------------------------------------------------------------|---------------|---------------|---------------|---------------|---------------|
| The System's proportion of the net pension liability | 1.6786% | 1.7268% | 1.6813% | 1.7191% | 1.6927% |
| The System's proportionate share of the net pension liability | \$ 527,333 | \$ 630,912 | \$ 556,748 | \$ 485,502 | \$ 426,935 |
| The System's covered payroll | \$ 206,175 | \$ 194,340 | \$ 188,680 | \$ 181,151 | \$ 164,571 |
| The System's proportionate share of the net pension liability as a percentage of their covered payroll | 255.77% | 324,64% | 295.08% | 268.01% | 259.42% |
| Plan fiduciary net position as a percentage of the total pension liability | 71.83% | 66.42% | 66.81% | 70.68% | 73.05% |
| Measurement date: | June 30, 2018 | June 30, 2017 | June 30, 2016 | June 30, 2015 | June 30, 2014 |

 $[\]star$ - Fiscal year 2015 was the 1st year of implementation, therefore only five years are shown.

Schedule of the System's Pension Contributions

Last 10 Years* (in thousands)

| Fiscal Year | 2019 | | 2019 2018 | | 2017 | | 2016 | | _ | 2015 |
|----------------------------------------------------------------------|------|---------|-----------|----------|------|---------|------|---------|----|---------|
| Contractually required contribution | \$ | 63,075 | \$ | 58,265 | \$ | 51,594 | \$ | 47,978 | \$ | 44,393 |
| Contributions in relation to the contractually required contribution | _ | 63,075 | _ | 119,175 | | 51,594 | _ | 47,978 | _ | 44,393 |
| Contribution deficiency (excess) | \$ - | | \$ | (60,910) | \$ | - | \$ | - | \$ | - |
| System's covered payroll | \$ | 211.364 | \$ | 206.175 | \$ | 194.340 | \$ | 188.680 | \$ | 181,151 |
| Contributions as a percentage of covered payroll | Ψ | 29.84% | Ψ | 57.80% | Ψ | 26.55% | Ψ | 25.43% | Ψ | 24.51% |

 $[\]mbox{\ensuremath{^{\star}}}$ - Fiscal year 2015 was the 1st year of implementation, therefore only five years are shown.

Schedule of the System's Proportionate Share of the Net OPEB Liability

Last 10 Years* (in thousands)

| Fiscal Year | 2019 | | | 2018 |
|-------------------------------------------------------------------------------------------------|------|-------------|----|--------------|
| The System's proportion of the net OPEB liability | | 0.9011% | | 1.0031% |
| The System's proportionate share of the OPEB liability | \$ | 771,286 | \$ | 912,912 |
| The System's covered payroll | \$ | 206,175 | \$ | 194,340 |
| The System's proportionate share of the OPEB liability as a percentage of their covered payroll | | 374.09% | | 469.75% |
| Plan fiduciary net position as a percentage of the total OPEB liability | | 1.011% | | 0.546% |
| Measurement date: | Ju | ne 30, 2018 | Ju | une 30, 2017 |

 $[\]mbox{\ensuremath{^{\star}}}$ - Fiscal year 2018 was the 1st year of implementation, therefore only two years are shown.

Schedule of the System's OPEB Contributions

Last 10 Years* (in thousands)

| Fiscal Year | | 2019 | 2018 | | |
|----------------------------------------------------------------------|----|---------|------|---------|--|
| Actuarially determined contribution | \$ | 40,950 | \$ | 44,788 | |
| Contributions in relation to the actuarially determined contribution | | 23,948 | | 21,016 | |
| Contribution deficiency (excess) | \$ | 17,002 | \$ | 23,772 | |
| | | | | | |
| System's covered payroll | \$ | 211,364 | \$ | 206,175 | |
| Contributions as a percentage of covered payroll | | 11.33% | | 10.19% | |

 $[\]star$ - Fiscal year 2018 was the 1st year of implementation, therefore only two years are shown.



SUPPLEMENTARY INFORMATION

Calculation of Adequacy of Debt Service Coverage for the Central Valley Project Revenue Bonds

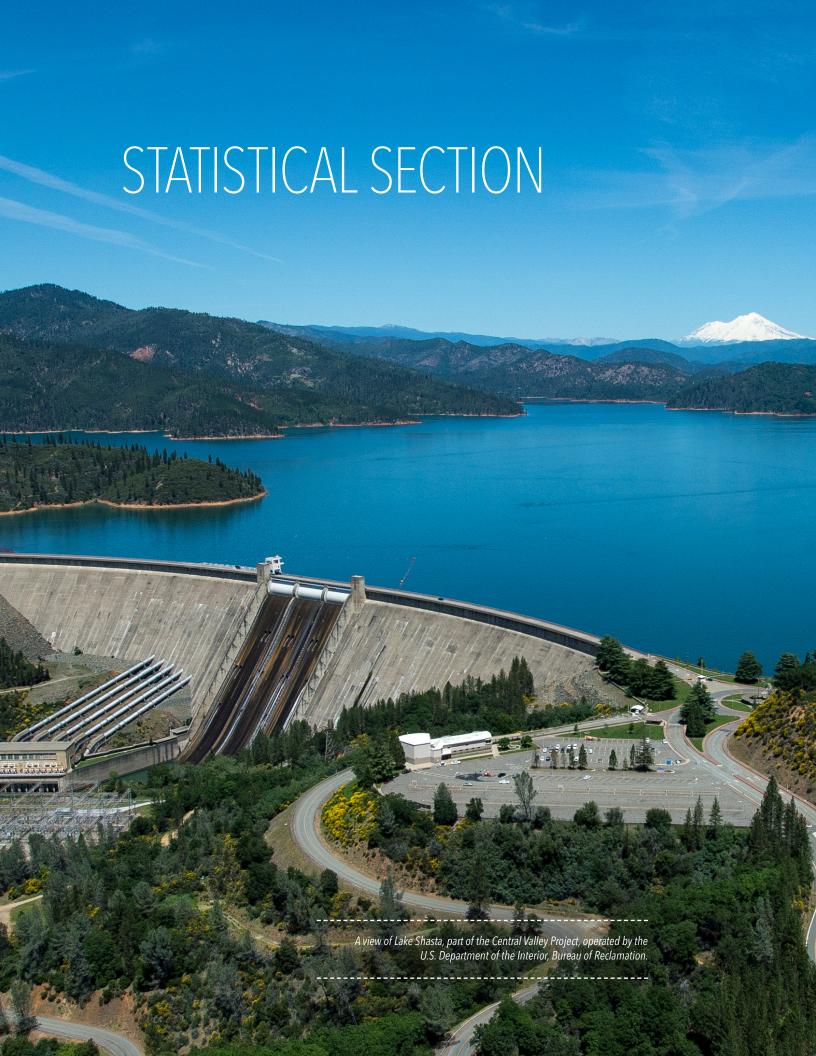
| Debt Service Coverage | (amounts in thousands) | | | | | | | | |
|-----------------------------------------------------------|------------------------|----------|------|----------|--|--|--|--|--|
| | | | 2018 | | | | | | |
| Water supply revenues, Central Valley Project Act | \$ | 246,338 | \$ | 235,540 | | | | | |
| Add: Cover Collected as Proceeds Due to Water Contractors | | 58,967 | | 56,305 | | | | | |
| Less: Devil Canyon Castaic Revenues | | (21,878) | | (21,451) | | | | | |
| Revenues not available for Debt Service | | (11,255) | | (5,230) | | | | | |
| Net CVP revenues available for debt service | | 272,172 | | 265,164 | | | | | |
| Principal and interest for revenue bonds | \$ | 211,558 | \$ | 207,341 | | | | | |
| Debt service coverage | | 128.7% | | 127.9% | | | | | |

Note: Section 805 of the general bond resolution for the Central Valley Project (CVP) Water System Revenue Bonds states, "The total amount of Revenues receivable under all Water Supply Contracts in any Year shall be the sum of (A) 1.36 times the Annual Debt Service for such Year to be paid from the Revenue Fund, plus (B) the amount estimated by DWR, pursuant to Section 605, to be required from the Revenue Fund in such Year to provide for Water System Operating Expenses..."

The Supplementary Information, Calculation of Adequacy of Debt Service Coverage, for the Central Valley Project (CVP) Revenue Bonds is based on \$246.3 million in fiscal 2019 and \$235.6 million in fiscal 2018, respectively in Water Supply Revenues of the System's (CVP) segment.

In fiscal 2019, the revenues include: an increase of \$59 million in refundable proceeds, a decrease of \$21.9 million for principal and interest payments for the Devil Canyon Castaic Facilities Bonds (DCC) since the DCC General Bond resolution does not require cover to be collected for these bonds, and a decrease of \$11.3 million in miscellaneous revenue not available for debt service.

In fiscal 2018, the revenues include: an increase of \$56.3 million in refundable proceeds, a decrease of \$21.5 million for principal and interest payments for the Devil Canyon Castaic Facilities Bonds (DCC) since the DCC General Bond resolution does not require cover to be collected for these bonds, and a decrease of \$5.2 million in miscellaneous revenue not available for debt service.





STATISTICAL SECTION

This part of the California State Water Resources Development System's comprehensive annual financial report presents detailed information as a context for understanding what the information in the financial statements and note disclosures say about the government's overall financial health.



Contents

| FINIAL | LAISIA | TDENIDC | |
|--------|--------|---------|--|
| FINA | NCIAL | TRENDS | |
| | 101712 | III | |

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

| Schedule of Changes in Net Position | 11 | 16 |
|---------------------------------------|----|----|
| Schedule of Net Position by Component | 11 | 18 |

REVENUE CAPACITY

These schedules contain information to help the reader access the System's two most significant local revenue sources, water supply and power sales.

| Schedule of Significant Revenues by Source | 119 | |
|----------------------------------------------------|-----|--|
| Summary of Schedule of Water and Power Sales Rates | 120 | |
| Largest Distribution Water Revenue Accounts | 121 | |
| Largest Distribution Power Sales Revenue Accounts | 122 | |

DEBT CAPACITY

These schedules present information to help the reader access the affordability of the System's current levels of outstanding debt and the System's ability to issue additional debt in the future.

| Schedule of Ratios of Outstanding Debt by Type | 123 |
|------------------------------------------------|-----|
| Schedule of Debt Schedule Coverage | 124 |

DEMOGRAPHIC AND ECONOMIC INFORMATION

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

| Schedule of Demographic and Economic Indicators | 125 |
|--------------------------------------------------------|-----|
| Schedule of California Number of Employees by Industry | 126 |

OPERATING INFORMATION

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

| Schedule of Full-Time Equivalent Employees by Function | . 127 |
|--------------------------------------------------------|-------|
| Operating and Capital Indicators | . 128 |
| Capital Assets, Net | . 130 |

Schedule of Changes in Net Position (Unaudited)

Last Ten Fiscal Years (in thousands)

| | 2010 | | 2011 | | 2012 | | 2013 |
|----------------------------------------------|--------|-----------|---------|-----------|----------|-----------|---------------|
| OPERATING REVENUES: | | | | | | | |
| Water supply | \$ | 853,158 | \$ | 874,748 | \$ | 860,891 | \$ 931,808 |
| Power sales | | 165,664 | | 193,154 | | 148,360 | 146,277 |
| Federal and State reimbursements | | 24,021 | | 28,294 | | 36,561 | 52,397 |
| Total operating revenues | | 1,042,843 | | 1,096,196 | | 1,045,812 | 1,130,482 |
| OPERATING EXPENSES: | | | | | | | |
| Operations and maintenance | | 435,801 | | 428,559 | | 526,402 | 545,413 |
| Purchased power | | 212,658 | | 342,446 | | 271,377 | 258,899 |
| Depreciation and amortization expense | 80,813 | | 100,257 | | 87,400 | | 85,236 |
| Operating expenses recovered (deferred), net | | 189,000 | | 118,325 | | 67,063 | 22,261 |
| Total operating expense | | 918,272 | | 989,587 | | 952,242 | 911,809 |
| NET OPERATING INCOME (LOSS) | | 124,571 | | 106,609 | | 93,570 | 218,673 |
| NONOPERATING REVENUES (EXPENSES): | | | | | | | |
| Capital revenues recovered (deferred), net | | 19,823 | | 22,812 | | 43,834 | (174,356) |
| Interest expense | | (151,390) | | (134,996) | | (107,770) | (53,492) |
| Other revenues (expenses), net | | 6,996 | | 5,575 | (29,634) | | 9,175 |
| Total nonoperating revenues (expenses) | | (124,571) | | (106,609) | | (93,570) | (218,673) |
| CHANGE IN NET POSITION | \$ | - | \$ | - | \$ | - | \$ - |

Schedule of Changes in Net Position (Unaudited)

| 1 ac+ T | - n | Eicco | I١ | Vaara | lin | thousand | ٠١ |
|---------|-----|-------|----|-------|-----|----------|----|
| i asti | en | FISCA | | Years | un | Thougand | 21 |

| 2014 | | 2015 | 2016 | 2017 | (As | 2018 restated) | 2019 |
|------|-----------|---------------|---------------|-----------------|-----|-------------------|-----------------|
| | | | | | | | |
| \$ | 789,730 | \$ 883,538 | \$ 948,105 | \$ 1,082,587 | \$ | 1,076,238 | \$ 1,010,751 |
| | 131,952 | 91,780 | 71,236 | 85,089 | | 88,148 | 96,308 |
| | 52,186 | 44,060 | 67,309 | 55,664 | | 42,127 | 42,593 |
| | 973,508 | 1,019,378 | 1,086,650 | 1,223,340 | | 1,206,513 | 1,149,652 |
| | | _ | | | | | |
| | | | | | | | |
| | 557,209 | 404,627 | 511,926 | 544,925 | | 555,163 | 645,191 |
| | 241,444 | 202,780 | 219,661 | 339,993 | | 342,115 | 290,908 |
| | 68,896 | 81,495 | 77,170 | 77,265 | | 80,101 | 94,191 |
| | <u>-</u> | | 65,004 | 57,066 | | (64,454) | (151,926) |
| | 867,549 | 688,902 | 873,761 | 1,019,249 | | 912,925 | 878,364 |
| | | | | | | | |
| | 105,959 | 330,476 | 212,889 | 204,091 | | 293,588 | 271,288 |
| | | | | | | | |
| | (42,934) | (243,945) | (118,510) | (130,147) | | (294,864) | (334,870) |
| | (115,499) | (96,082) | (106,978) | (105,768) | | (105,429) | (116,481) |
| | 52,474 | 9,551 | 12,599 | 31,824 | | 57,846 | 152,374 |
| | (105,959) | (330,476) | (212,889) | (204,091) | | (342,447) | (298,977) |
| | | | | | | | |
| \$ | - | \$ - | \$ - | \$ - | \$ | (48,859) | \$ (27,689) |

| | 2019 | 783,286 | 214,513 | 1,166,349 | | |
|--------------|--------------------------------------|------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | 2018 s restated) | 942,618 \$ | 197,363 | 1,194,038 \$ | | |
| | 2017 s restated) (A | 748,439 \$ | 300,569 | 1,242,897 \$ | 90,00 | 61.07 |
| | 2016 (A | 736,203 \$ | 177,330 | 1,205,428 \$ | 2018 | 81.07 |
| | 2015 | 585,309 \$ | 155,857 | 1,205,428 \$ | 7,100 | /107 |
| (spu | 2014 | 674,336 \$ | 155,116 375,976 | ,205,428 \$ | | 7010 |
| (in thousar | | 466,348 \$ | 150,825 | ,205,428 \$ 1 | NOIFIS AND THE STATE OF THE STA | 5107 |
| Fiscal Years | | 1 | 531,845 | 205,428 \$ 1 | | 3 2014 |
| Last Ten | | | | 205,428 \$ 1, | | |
| | | | | 205,431 \$ 1,3 | | |
| | 7 | ₩ ₩ | | \$ | | |
| | | | ents | | nent Systa | 70107 |
| | | POSITION let investment in capital assets | iestricted for: Debt service and plant replaceme SWP related activities | TOTAL NET POSITION | \$1,000,000 \$900,000 \$900,000 \$\$00,000 \$\$00,000 \$\$00,000 \$\$00,000 \$\$00,000 \$\$00,000 \$\$00,000 \$\$100,000 \$\$100,000 \$\$100,000 \$\$ | |
| | Last Ten Fiscal Years (in thousands) | 2017 2018 1 2015 2016 (As restated) (As restated) | Last Ten Fiscal Years (in thousands) 2017 2018 2010 2011 2010 2011 2018 3 441,809 \$ 455,265 \$ 516,670 \$ 466,348 \$ 674,336 \$ 585,309 \$ 736,203 \$ 748,439 \$ 942,618 \$ | Intin capital assets \$ 441,809 \$ 455,265 \$ 516,670 \$ 466,348 \$ 674,336 \$ 585,309 \$ 736,203 \$ 748,439 \$ 942,618 \$ ice and plant replacements \$ 604,114 \$ 588,107 \$ 531,845 \$ 586,255 \$ 375,976 \$ 464,262 \$ 291,895 \$ 300,569 \$ 54,057 | Last Ten Fiscal Years (in thousands) 2017 2018 2017 2018 2010 2010 2011 2012 2013 2014 2015 2016 (As restated) (As restated) 2018 2010 2011 2012 2013 2014 2015 2016 (As restated) (As restated) 2018 2016 2016 2016 2016 2016 2018 2018 2016 2016 2016 2018 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 | r: ice and plant replacements ed activities stylono,000 \$1,000,000 \$900,000 \$700,000 \$500,000 \$500,000 \$500,000 \$500,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 |

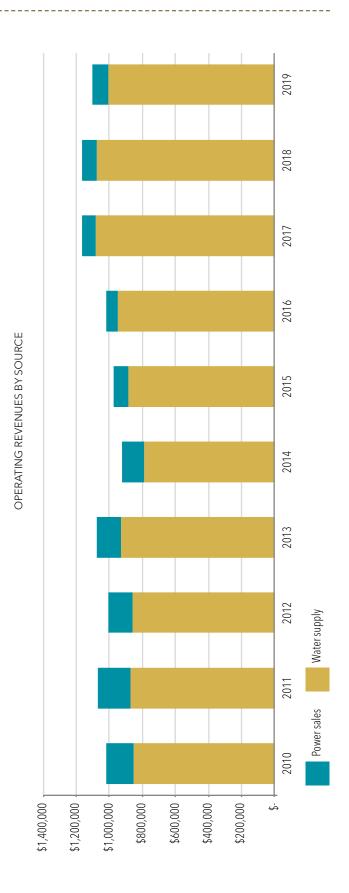
Restricted for debt service

Net investment in capital assets
Restricted for SWP related activities

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| nificant Revenues by Source (Unaudited |
| ile of Significant Revenues by Source (Unaudited |
| nificant Revenues by Source (Unaudited |

Last Ten Fiscal Years (in thousands)

| \$ 853,158 \$ |
|---------------------------------------------------------------------------------------------------------------|
| 874,748 \$ 860,891 \$ 931,808 \$ 789,370 \$ 883,538 \$ 948,105 \$1,082,587 \$1,076,238 \$1,010,751 193,154 |



Summary of Schedule of Water and Power Sales Rates (Unaudited)

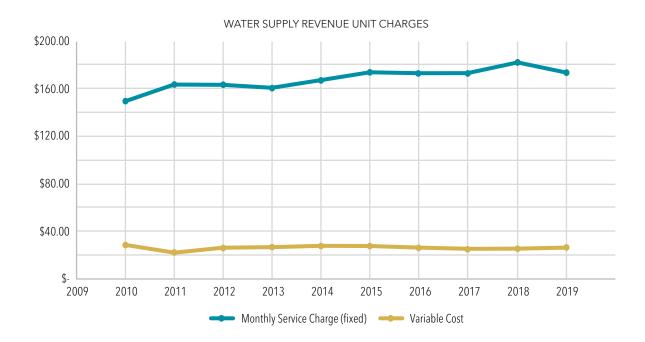
Last Ten Years

| | | Water S | upply ^a | | |
|-----------------------------|-------------------|-------------------------------|--------------------|-------|--|
| Financial Statement Year | Calendar Year | athly Service arge (fixed) | Variable Cost | | |
| 2010 | 2009 | \$ 148.49 | \$ | 28.33 | |
| 2011 | 2010 | 162.20 | | 22.45 | |
| 2012 | 2011 | 162.64 | | 26.36 | |
| 2013 | 2012 | 159.89 | | 26.79 | |
| 2014 | 2013 | 166.37 | | 28.21 | |
| 2015 | 2014 | 172.81 | | 27.52 | |
| 2016 | 2015 | 171.99 | | 26.34 | |
| 2017 | 2016 ^c | 172.07 | | 25.33 | |
| 2018 | 2017° | 181.06 | | 25.78 | |
| 2019 | 2018° | 173.24 | | 25.98 | |

Source: State Water Project Analysis Office Bulletin 132-xx Table B-24

a) Hypothetical charges, which, if assessed on all Table A of Bulletin 132 water delivered to date, all surplus water delivered prior to May 1, 1973, and all Table A water estimated to be delivered during the remainder of the project repayment period (Table B-5B of Bulletin 132), would provide a sum at the end of the period financially equivalent to all Transportation Charge and Delta Water Charge payments required under a water supply contract, considering interest at the Project Interest Rate, 4.610 percent per annum.

- b) Numbers reflect amounts on a Calendar Year basis
- c) Amounts for these years are preliminary and subject to change



Largest Distribution Water Revenue Accounts (Unaudited)

Current Year and Nine Years Prior

| | Percentage of Total ^a | 21% | %6 | | %99 | |
|---------|-------------------------------------|------------------------------------------------|---------------------|---------------------------|----------------|-------------------|
| FY 2010 | Rank | ~ | 2 | | | |
| Ĺ | Annual Water Sales | \$ 486,300,274 | 76,784,254 | | \$ 563,084,528 | \$ 853,158,375 |
| | Customer | THE METROPOLITAN WATER DISTRICT \$ 486,300,274 | KERN COUNTY WA - AG | | Subtotal | Total Water Sales |
| | Percentage of Total® | 51% | 11% | %9 | %89 | |
| FY 2019 | Rank | _ | 2 | က | | |
| Ш | Annual Water Sales | \$ 565,122,956 | 119,531,326 | 71,408,869 | \$ 756,063,151 | \$1,010,750,706 |
| | Customer | THE METROPOLITAN WATER DISTRICT \$ 565,122,956 | KERN COUNTY WA - AG | SAN BERNARDINO VALLEY MWD | Subtotal | Total Water Sales |

Source: State Water Resources Development System a) Percentage of total is based on total revenues billed under the water supply contracts

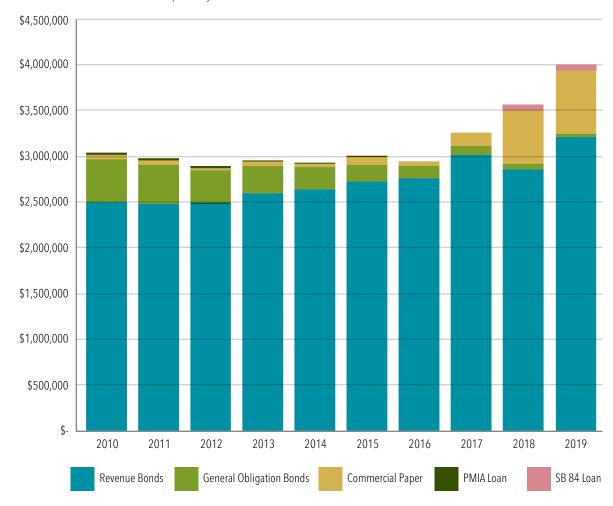


Percentage of Total 41% 28% 17% Rank FY 2010 FY 2010 CALIFORNIA INDEPENDENT SYSTEM OPERATOR \$ 67,922,226 28,162,874 \$165,663,966 \$ 96,085,100 17% Revenues Annual 42% Other SOUTHERN CALIFORNIA EDISON Southern California Edison Northern California Current Year and Nine Years Prior Total Power Sales Power Operator Subtotal Customer Western Area Power Percentage of Total 26% 82% 28% % Administration Largest Distribution Power Sales Revenue Accounts (Unaudited) California Independent FY 2019 Rank System Operator 2 CALIFORNIA INDEPENDENT SYSTEM OPERATOR \$56,471,763 26,843,035 8,116,477 \$91,431,275 \$96,308,281 Revenues Annual WESTERN AREA POWER ADMINISTRATION NORTHERN CALIFORNIA POWER AGENCY Source: State Water Resources Development System FY 2019 2% **Total Power Sales** 8% Subtotal 28% Customer

Schedule of Ratios of Outstanding Debt by Type (Unaudited)

Last Ten Fiscal Years (in thousands)

| | | | | General Obligation | | Commercial | | | | | |
|---|-------------|-----|------------|-----------------------|----|------------|----|-----------|----|---------|-----------------|
| _ | Fiscal Year | Rev | enue Bonds | Bonds | | Paper | F | PMIA Loan | SE | 84 Loan | Total |
| | 2010 | \$ | 2,500,049 | \$ 476,915 | \$ | 46,473 | \$ | 23,912 | \$ | - | \$ 3,047,349 |
| | 2011 | | 2,491,854 | 420,540 | | 54,578 | | 21,055 | | - | 2,988,027 |
| | 2012 | | 2,487,737 | 362,375 | | 28,783 | | 18,052 | | - | 2,896,947 |
| | 2013 | | 2,594,459 | 302,920 | | 50,505 | | 14,896 | | - | 2,962,780 |
| | 2014 | | 2,647,814 | 241,835 | | 36,136 | | 11,579 | | - | 2,937,364 |
| | 2015 | | 2,724,008 | 184,960 | | 87,900 | | 8,094 | | - | 3,004,962 |
| | 2016 | | 2,770,888 | 135,045 | | 42,776 | | - | | - | 2,948,709 |
| | 2017 | | 3,026,368 | 88,300 | | 147,165 | | - | | - | 3,261,833 |
| | 2018 | | 2,869,007 | 54,065 | | 580,672 | | - | | 60,910 | 3,564,654 |
| | 2019 | | 3,222,577 | 28,090 | | 689,984 | | - | | 60,910 | 4,001,561 |
| | | | | | | | | | | | |



Schedule of Debt Service Coverage (Unaudited)

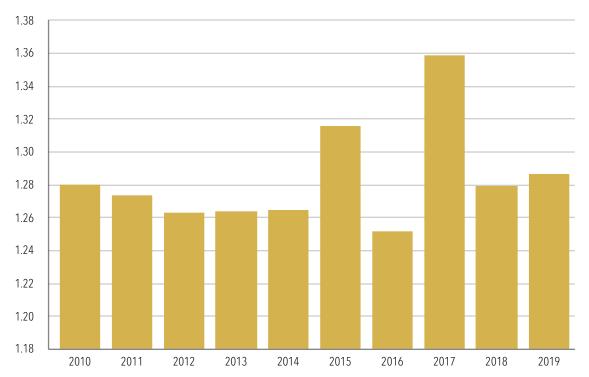
Last Ten Fiscal Years (in thousands)

Debt Service Requirements

| Fiscal Year | er Supply | Colle | Cover ected for t Service | No f | evenues t Available for Debt Service | Ava | Revenue ailable for ot Service | Pr | rincipal | nterest | | Total | Coverage | _ |
|----------------|---------------|-------|---------------------------------|---------|-----------------------------------------------|-----|--------------------------------------|----|----------|---------------|----|---------|----------|---|
| | | DCD | | _ | | | ot oct vice | | Псіраі | | _ | | Coverage | _ |
| 2010 | \$ 279,660 | \$ | 54,086 | \$ | 62,579 | \$ | 271,167 | \$ | 93,270 | \$ 118,516 | \$ | 211,786 | 1.28 | |
| 2011 | 320,631 | | 55,542 | | 96,016 | | 280,157 | | 104,535 | 115,439 | | 219,974 | 1.27 | |
| 2012 | 307,438 | | 56,385 | | 85,448 | | 278,375 | | 111,555 | 108,900 | | 220,455 | 1.26 | |
| 2013 | 372,748 | | 54,677 | | 156,404 | | 271,021 | | 119,280 | 95,098 | | 214,378 | 1.26 | |
| 2014 | 281,461 | | 51,786 | | 72,829 | | 260,418 | | 109,610 | 96,313 | | 205,923 | 1.26 | |
| 2015 | 225,899 | | 54,316 | | 26,405 | | 253,810 | | 110,105 | 82,819 | | 192,924 | 1.32 | |
| 2016 | 255,106 | | 57,779 | | 28,325 | | 284,560 | | 130,095 | 97,255 | | 227,350 | 1.25 | |
| 2017 | 241,117 | | 56,321 | | 26,248 | | 271,190 | | 128,035 | 71,584 | | 199,619 | 1.36 | |
| 2018 | 235,540 | | 56,305 | | 26,681 | | 265,164 | | 132,050 | 75,291 | | 207,341 | 1.28 | |
| 2019 | 246,338 | | 58,967 | | 33,133 | | 272,172 | | 122,490 | 89,068 | | 211,558 | 1.29 | |

Source: State Water Resources Development System

DEBT COVERAGE RATIO



Schedule of Demographic and Economic Indicators (Unaudited)

Last Ten Years

| Year | Population (in thousands) | nal Income millions) | ita Personal come | Unemployment Rate | | |
|------|------------------------------|-----------------------------|--------------------------|----------------------|--|--|
| 2009 | 37,077 | \$ 1,537,136 | \$ 41,588 | 11.3% | | |
| 2010 | 37,339 | 1,583,447 | 42,399 | 12.1% | | |
| 2011 | 37,679 | 1,691,003 | 44,844 | 11.7% | | |
| 2012 | 38,044 | 1,812,315 | 47,600 | 10.4% | | |
| 2013 | 38,375 | 1,849,505 | 48,115 | 8.9% | | |
| 2014 | 38,737 | 1,939,528 | 49,976 | 7.5% | | |
| 2015 | 39,093 | 2,061,149 | 52,644 | 6.2% | | |
| 2016 | 39,250 | 2,197,492 | 55,987 | 5.4% | | |
| 2017 | 39,537 | 2,303,870 | 58,272 | 4.8% | | |
| 2018 | 39,557 | 2,475,727 | 62,586 | 4.4% | | |

^{1 -} Source: Economic Research Unit, California Department of Finance

² - Note: 2019 information is not available and therefore not presented

Schedule of California Number of Employees by Industry (Unaudited)

| | 2009 | 2010 | 2011 | 2012 | 2013 |
|-----------------------------------------|------------|------------|------------|------------|------------|
| Agriculture, Forestry, Fishing, Hunting | 434,275 | 440,265 | 449,614 | 463,476 | 463,169 |
| Mining | 23,244 | 25,011 | 27,016 | 28,475 | 27,986 |
| Utilities | 60,288 | 57,175 | 58,199 | 59,160 | 58,240 |
| Construction | 601,982 | 562,922 | 580,550 | 609,365 | 656,000 |
| Manufacturing | 1,261,582 | 1,250,589 | 1,257,097 | 1,264,017 | 1,265,860 |
| Wholesale Trade | 636,330 | 647,193 | 661,757 | 679,339 | 702,319 |
| Retail Trade | 1,495,711 | 1,496,821 | 1,522,619 | 1,553,812 | 1,587,467 |
| Transportation and Warehousing | 396,512 | 397,932 | 404,582 | 415,488 | 433,112 |
| Information | 436,865 | 429,065 | 425,193 | 426,056 | 445,121 |
| Finance and Insurance | 528,813 | 509,852 | 512,160 | 522,529 | 520,579 |
| Real Estate and Rental and Leasing | 250,908 | 248,452 | 247,476 | 253,154 | 260,584 |
| Services | 5,947,240 | 6,063,638 | 6,216,242 | 6,519,084 | 6,809,757 |
| Nonclassifiable Establishments (3) | 72,563 | 44,336 | 58,663 | 59,443 | 36,808 |
| Federal, State and Local Government | 2,352,014 | 2,302,160 | 2,276,153 | 2,260,320 | 2,276,164 |
| Total for all Industries | 14,498,327 | 14,475,411 | 14,697,321 | 15,113,718 | 15,543,166 |
| | | | | | |
| | 2014 | 2015 | 2016 | 2017 | 2018 |
| Agriculture, Forestry, Fishing, Hunting | 467,923 | 471,566 | 474,766 | 473,554 | 475,503 |
| Mining | 29,142 | 25,668 | 21,218 | 20,130 | 20,545 |
| Utilities | 57,829 | 57,577 | 58,008 | 57,766 | 56,571 |
| Construction | 691,811 | 748,872 | 789,841 | 830,446 | 880,556 |
| Manufacturing | 1,283,779 | 1,303,651 | 1,304,915 | 1,318,709 | 1,337,213 |
| Wholesale Trade | 713,642 | 719,576 | 718,853 | 723,984 | 701,831 |
| Retail Trade | 1,615,557 | 1,645,332 | 1,654,247 | 1,670,450 | 1,673,554 |
| Transportation and Warehousing | 455,070 | 488,428 | 517,790 | 553,571 | 592,578 |
| Information | 459,781 | 486,838 | 517,275 | 526,390 | 542,792 |
| Finance and Insurance | 514,826 | 523,933 | 540,844 | 544,423 | 541,035 |
| Real Estate and Rental and Leasing | 265,335 | 271,617 | 278,001 | 285,957 | 296,584 |
| Services | 7,056,066 | 7,247,138 | 7,442,898 | 7,630,490 | 7,888,061 |
| Nonclassifiable Establishments (3) | 63,478 | 102,851 | 119,680 | 82,201 | 12,948 |
| Federal, State and Local Government | 2,317,813 | 2,388,336 | 2,434,565 | 2,346,343 | 2,366,731 |
| Total for all Industries | 15,992,052 | 16,481,383 | 16,872,901 | 17,064,414 | 17,386,502 |

⁽¹⁾ Source: California Employment Development Department

⁽²⁾ The industry data provided are intended to provide similar alternative information regarding the concentration of employment in various sectors of the California Economy. Due to confidentiality issues, the names of the top individual employers are not available.

⁽³⁾ Note: Businesses are designated as "Nonclassifiable Establishments" when there is sufficient information to determine the appropriate industry

⁽⁴⁾ Note: 2019 information is not available and therefore not represented Definitions of Terms and Source Notes: www.labormarketinfo.edd.ca.gov

Schedule of Full-Time Equivalent Employees by Function (Unaudited)

Last Ten Fiscal Years

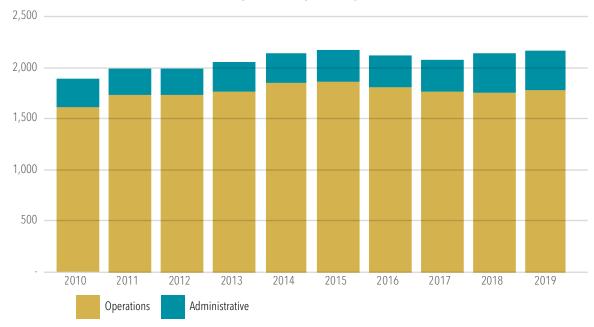
Full-Time Equivalents by Function as of June 30, 1

| | | | | | , | | | | | |
|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Function | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 |
| Field Operations | 964 | 862 | 872 | 863 | 920 | 934 | 899 | 904 | 910 | 886 |
| Engineering | 206 | 328 | 329 | 337 | 330 | 324 | 280 | 283 | 286 | 294 |
| Operations and Maintenance | 321 | 318 | 295 | 338 | 348 | 355 | 388 | 381 | 390 | 413 |
| Environmental Services | 102 | 123 | 128 | 129 | 135 | 132 | 129 | 127 | 126 | 127 |
| Flood Management | 10 | 62 | 68 | 65 | 65 | 67 | 60 | 10 | 10 | 8 |
| Safety of Dams | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | - | - |
| Power Management | - | 38 | 38 | 35 | 47 | 52 | 53 | 53 | 35 | 48 |
| Operations Total | 1,605 | 1,733 | 1,732 | 1,769 | 1,847 | 1,866 | 1,811 | 1,760 | 1,757 | 1,776 |
| Executive | 120 | 43 | 51 | 56 | 63 | 71 | 77 | 78 | 90 | 99 |
| Finance and Accounting | 74 | 69 | 72 | 72 | 69 | 75 | 69 | 70 | 74 | 72 |
| Technology Services | 81 | 93 | 79 | 99 | 104 | 105 | 107 | 110 | 110 | 111 |
| Communications | - | 27 | 26 | 27 | 24 | 27 | 27 | 29 | 26 | 27 |
| Legal | - | 28 | 31 | 30 | 30 | 31 | 31 | 33 | 33 | 33 |
| Human Resources | - | - | - | - | - | - | - | - | 46 | 44 |
| Administrative Total | 275 | 260 | 259 | 284 | 290 | 309 | 311 | 320 | 379 | 386 |
| Grand Total | 1,880 | 1,993 | 1,991 | 2,053 | 2,137 | 2,175 | 2,122 | 2,080 | 2,136 | 2,162 |

^{1 -} Excludes Retired Annuitants; FTEs calculated using the most recently available allocation factors

Source: California Department of Water Resources

FULL-TIME EQUIVALENTS



| Operating and Capital Indicators (Unaudited) | icators (Una | udited) | | | | | | | | |
|--------------------------------------------------|--------------|------------|------------|----------------|------------|------------|------------|------------|------------|------------|
| | | | | Last Ten Years | ears | | | | | |
| | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 a | 2017 a | 2018 a |
| Water | | | | | | | | | | |
| Water Deliveries (AF) | 3,164,327 | 3,695,808 | 4,711,558 | 4,009,663 | 3,371,000 | 1,992,157 | 2,104,264 | 3,338,083 | 4,786,635 | 3,160,712 |
| Percentage of Requested Water Delivered | 40% | 20% | 80% | %59 | 35% | 2% | 20% | %09 | 85% | 35% |
| Gross Area Sewed (Acres) | 25,091,434 | 25,091,780 | 25,091,780 | 23,509,885 | 23,847,530 | 23,527,540 | 23,514,148 | 23,514,148 | 23,514,604 | 23,513,897 |
| Estimated Population Served ³ | 26,216,435 | 21,462,843 | 26,324,019 | 26,201,400 | 26,267,499 | 26,520,624 | 26,876,859 | 26,926,556 | 27,214,361 | 27,209,404 |
| Statewide Precipitation (% of Avg) 1 | 81% | 107% | 136% | 77% | %62 | 26% | 74% | 105% | 164% | 73% |
| Statewide Snowpack (% of Apr 1 Avg) ⁴ | 82% | 106% | 165% | 54% | 47% | 33% | 2% | %98 | 163% | 54% |
| Statewide River Runoff (% of Avg) ¹ | %19 | 93% | 146% | 97% | %09 | 35% | 46% | %16 | 217% | %89 |
| Total Storage (% of Average) ² | %62 | 103% | 130% | %26 | %62 | 21% | 54% | 82% | 120% | %66 |
| Total Storage (% of Capacity) 2 | 46% | %09 | %9/ | 26% | 46% | 33% | 31% | 47% | %89 | 26% |
| Total Miles of Aqueducts | 705 | 705 | 705 | 705 | 705 | 705 | 705 | 705 | 705 | 705 |
| Number of Storage Facilities | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 22 |
| Gross Storage Capacity (AF) | 6,761,600 | 6,761,600 | 6,761,600 | 6,761,600 | 6,761,600 | 6,761,600 | 6,761,600 | 6,761,700 | 6,761,700 | 6,762,567 |
| Number of Pumping Plants | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 24 |
| Number of Pumps | 162 | 162 | 162 | 162 | 162 | 162 | 162 | 162 | 162 | 177 |
| Power | | | | | | | | | | |
| Energy Generated (Mwh) | 3,650,000 | 3,920,000 | 4,846,000 | 4,198,000 | 3,068,539 | 1,132,659 | 1,274,706 | 3,075,218 | 4,519,141 | 2,551,901 |
| Energy Purchased (Mwh) | 3,970,000 | 5,081,000 | 4,895,000 | 3,741,000 | 3,604,135 | 1,691,424 | 2,780,643 | 4,108,601 | 5,378,979 | 3,646,253 |
| Energy Sold (Mwh) | 1,530,000 | 1,814,000 | 1,192,000 | 533,000 | 936,975 | 33,000 | 566,891 | 579,934 | 243,590 | 471,188 |
| Net Power Consumption (Mwh) | 9,090,000 | 7,187,000 | 8,549,000 | 7,406,000 | 5,735,699 | 2,791,083 | 3,488,458 | 6,603,883 | 9,654,529 | 5,726,966 |
| Number of Power Plants | 10 | 10 | 10 | 10 | 10 | 6 | 6 | 6 | 6 | 6 |
| Number of Power Generating Units | 37 | 37 | 37 | 37 | 37 | 36 | 36 | 36 | 36 | 36 |

Note: Unless otherwise noted, amounts are on a calendar year basis.

Source: State Water Project Analysis Office Annual Bulletin 132

<u>Legend</u> AF - Acre Feet Mwh - Megawatt Hours

Measured in Water Years, which run from October of the prior year to September of the reported year.
 Measured at the end of the Water Year
 Contains duplicate values. Some areas that are in two or more Contractor areas are included in each Contractor's total.
 Based on snow sensor network on April 1
 Amounts for these years are preliminary and subject to change



Capital Assets, Net (in thousands) (Unaudited)

Last Ten Fiscal Years

| | | 2010 | | 2011 | | 2012 | | 2013 | | 2014 |
|--------------------------------------------|------|-----------|------|------------|-----|------------|-----|------------|------|-----------|
| Nondepreciable Utility Plant | | | | | | | | | | |
| Land | \$ | 136,129 | \$ | 136,129 | \$ | 136,129 | \$ | 136,797 | \$ | 137,033 |
| Construction work in progress | | 400,229 | | 366,975 | | 408,072 | | 528,836 | | 438,244 |
| Land use rights | | 10,925 | | 11,005 | | 11,250 | | 11,549 | | 11,583 |
| Other intangible assets | | 81,976 | | 81,976 | | 88,930 | | 100,064 | | 103,740 |
| Total Nondepreciable Utility Plant | | 629,259 | | 596,085 | | 644,381 | | 777,246 | | 690,600 |
| Depreciable Utility Plant | | | | | | | | | | |
| Aqueducts | 2 | 2,029,898 | | 2,057,437 | | 2,064,208 | | 2,071,255 | | 2,167,237 |
| Dams & reservoirs | | 765,246 | | 781,110 | | 781,202 | | 781,408 | | 781,408 |
| Power plants | | 909,904 | | 910,100 | | 906,554 | | 911,703 | | 466,358 |
| Pumping plants | | 784,247 | | 787,008 | | 829,344 | | 836,655 | | 836,814 |
| Environmental preservation and mitigation | | 67,797 | | 67,797 | | 67,797 | | 67,797 | | 67,797 |
| Fish protection | | 33,934 | | 33,934 | | 33,934 | | 33,934 | | 33,934 |
| Facilities | | - | | 64,810 | | 65,820 | | 66,230 | | 246,397 |
| Equipment | | 65,580 | | 67,996 | | 70,593 | | 71,819 | | 75,705 |
| Computer software | | 23,629 | | 23,629 | | 24,162 | | 24,501 | | 24,529 |
| Land use rights | | - | | - | | 272 | | 272 | | 272 |
| Other intangible assets | | - | | - | | - | | 11,995 | | 11,995 |
| General | | - | | 5,964 | | 6,491 | | 39,579 | | 61,310 |
| Total Depreciable Utility Plant | 4 | ,680,235 | | 4,799,785 | _ | 4,850,377 | | 4,917,148 | - | 4,773,756 |
| Less Accumulated Depreciation/Amortization | (2, | .094,306) | _(2 | 2,194,406) | _(2 | 2,281,806) | _(2 | 2,366,429) | _(1 | ,994,695) |
| Total Utility Plant, Net | \$ 3 | 3,215,188 | \$ 3 | 3,201,464 | \$ | 3,212,952 | \$ | 3,327,965 | \$: | 3,469,661 |

Capital Assets, Net (in thousands) (Unaudited)

Last Ten Fiscal Years

| | 2015 | 2016 | 2017 (As restated) | 2018 (As restated) | 2019 |
|--------------------------------------------|--------------|--------------|-----------------------|-----------------------|--------------|
| Nondepreciable Utility Plant | | | | | |
| Land | \$ 141,874 | \$ 147,681 | \$ 156,934 | \$ 162,457 | \$ 188,965 |
| Construction work in progress | 611,900 | 769,871 | 1,340,586 | 1,653,005 | 2,078,333 |
| Land use rights | 11,630 | 11,760 | 11,767 | 12,458 | 12,460 |
| Other intangible assets | 103,445 | 100,123 | 99,240 | 98,981 | 99,440 |
| Total Nondepreciable Utility Plant | 868,849 | 1,029,435 | 1,608,527 | 1,926,901 | 2,379,198 |
| Depreciable Utility Plant | | | | | |
| Aqueducts | 2,169,352 | 2,171,981 | 2,126,713 | 2,183,839 | 2,182,663 |
| Dams & reservoirs | 708,303 | 708,303 | 729,521 | 817,041 | 818,899 |
| Power plants | 441,202 | 470,818 | 477,044 | 523,529 | 650,730 |
| Pumping plants | 826,704 | 838,880 | 850,475 | 1,018,627 | 1,025,608 |
| Environmental preservation and mitigation | 67,797 | 67,797 | 67,797 | 67,797 | 67,797 |
| Fish protection | 33,934 | 35,544 | 35,544 | 35,544 | 35,544 |
| Facilities | 254,741 | 271,965 | 298,295 | 301,157 | 304,796 |
| Equipment | 77,384 | 79,229 | 82,526 | 75,214 | 82,698 |
| Computer software | 24,531 | 24,717 | 27,108 | 27,206 | 27,349 |
| Land use rights | 272 | 272 | 272 | 272 | 272 |
| Other intangible assets | 12,005 | 12,005 | 12,005 | 12,005 | 12,005 |
| General | 62,262 | 73,053 | 119,562 | 162,619 | 209,913 |
| Total Depreciable Utility Plant | 4,678,487 | 4,754,564 | 4,826,862 | 5,224,850 | 5,418,274 |
| Less Accumulated Depreciation/Amortization | (2,014,654) | (2,084,676) | (2,117,138) | (2,185,494) | (2,276,510) |
| Total Utility Plant, Net | \$ 3,532,682 | \$ 3,699,323 | \$ 4,318,251 | \$ 4,966,257 | \$ 5,520,962 |





