

FINANCIAL REPORT

FOR THE YEAR ENDED
JUNE 30, 2018



Table of Contents

	Page
Report of Independent Auditors	1 - 2
Management's Discussion and Analysis (Unaudited)	3 - 9
Basic Financial Statements:	
▪ Statement of Net Position	10 - 11
▪ Statement of Revenues, Expenses and Changes in Net Position	12
▪ Statement of Cash Flows.....	13 - 14
▪ Notes to Basic Financial Statements	15 - 36
Required Supplementary Information (Unaudited):	
▪ Other Post-Employment Benefit Plan Schedule of Changes in Net OPEB Liability and Related Ratios	37
▪ Other Post-Employment Benefit Plan Schedule of OPEB Contributions.....	38
▪ Cost Sharing Retirement Plan Schedule of the District's Proportionate Share of the Net Pension Liability.....	39
▪ Cost Sharing Retirement Plan Schedule of Contributions.....	40

INDEPENDENT AUDITORS' REPORT



Report of Independent Auditors

The Honorable Members of the Board of Directors Municipal Water District of Orange County

Report on the Financial Statements

We have audited the accompanying financial statements of the Municipal Water District of Orange County (the District) which comprise the statement of net position as of June 30, 2018, the related statements of revenues, expenses and changes in net position and cash flows for the year then ended, and the related notes to the financial statements.

Management's Responsibility for the Financial Statements

Management is responsible for the preparation and fair presentation of these financial statements in accordance with 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.

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

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



Opinion

In our opinion, the financial statements referred to above present fairly, in all material respects, the financial position of the District as of June 30, 2018 and the changes in its net position and its cash flows for the year then ended in accordance with accounting principles generally accepted in the United States of America.

Other Matters

Required Supplementary Information

Accounting principles generally accepted in the United States of America require that the Management's Discussion and Analysis, Schedule of Changes in Net OPEB Liability and Related Ratios, Schedule of OPEB Contributions, Schedule of the District's Proportionate Share of the Net Pension Liability and Schedule of Contributions for the Cost Sharing Retirement Plan on pages 3 through 9 and 37 through 40 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.

Implementation of New Accounting Standards

As discussed in Notes 8 and 10, the District has implemented Governmental Accounting Standards Board (GASB) Statement No. 75, *Accounting and Financial Reporting for Postemployment Benefits Other than Pensions (OPEB)* effective for the fiscal year ended June 30, 2018. As a result of this implementation, the District's financial statements were restated to retroactively report the net OPEB liability of \$306,710 and reverse the net OPEB asset recognized under GASB 45 of \$483,546 as of June 30, 2017. Our opinion is not modified with respect to this matter.

Other Reporting Required by Government Auditing Standards

In accordance with *Government Auditing Standards*, we have also issued our report dated November 14, 2018 on our consideration of the District's internal control over financial reporting and on our tests of its compliance with certain provisions of laws, regulations, contracts, and grant agreements and other matters. The purpose of that report is solely to describe the scope of our testing of internal control over financial reporting and compliance and the results of that testing, and not to provide an opinion on the effectiveness of the District's internal control over financial reporting or on compliance. That report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering the District's internal control over financial reporting and compliance.

A handwritten signature in black ink that reads "Vaqueria & Company LLP".

**Los Angeles, California
November 14, 2018**



MANAGEMENT'S DISCUSSION AND ANALYSIS

(Unaudited)

**MUNICIPAL WATER DISTRICT OF ORANGE COUNTY
MANAGEMENT'S DISCUSSION AND ANALYSIS
(UNAUDITED)
JUNE 30, 2018**

The following is a brief discussion of the Municipal Water District of Orange County's (District) activities and financial performance for the year ended June 30, 2018. Please read it in conjunction with the District's basic financial statements and accompanying notes which follow this section.

FINANCIAL HIGHLIGHTS

- The District's revenues were \$232.3 million in FY 2017-18, compared to \$163.4 million in the prior fiscal year, a 42.2% increase.
- The District's expenses were \$230.9 million in FY 2017-18, compared to \$162.3 million in the prior fiscal year, a 42.3% increase.
- The District's assets at June 30, 2018 were \$52.6 million, a 12.7% increase compared to total assets of \$46.7 million at June 30, 2017.
- The District's liabilities at June 30, 2018 were \$44.2 million, a 14.2% increase compared to total liabilities of \$38.7 million at June 30, 2017.
- The District's net position at June 30, 2018 was \$9.2 million, a 7.0% increase compared to net position of \$8.6 million at June 30, 2017.

MEASUREMENT FOCUS AND BASIS OF ACCOUNTING

Measurement focus is a term used to describe which transactions are recorded within the various financial statements. Basis of accounting refers to when transactions are recorded regardless of the measurement focus applied. The accompanying financial statements are reported using the economic resources measurement focus, and the accrual basis of accounting.

Under the economic resources measurement focus all assets, deferred inflows and outflows of resources, and liabilities (whether current or noncurrent) associated with these activities are included on the Statement of Net Position. The Statement of Revenues, Expenses and Changes in Net Position presents increases (revenues) and decreases (expenses) in total net position. Under the accrual basis of accounting, revenues are recorded when earned and expenses are recorded when a liability is incurred, regardless of the timing of related cash flows.

OVERVIEW OF THE BASIC FINANCIAL STATEMENTS

The District's financial statements, prepared in accordance with generally accepted accounting principles (GAAP), offer key, high-level financial information about the District activities during the reporting period. The financial statements of the District consist of three interrelated statements designed to provide the reader with relevant information on the District's financial condition and operating results. These statements offer short-term and long-term financial information about the District's activities utilizing the full accrual basis of accounting.

The *Statement of Net Position* includes all of the District's assets and deferred outflows of resources, less liabilities and deferred inflows of resources, with the difference being reported as Net Position. It also provides the basis for computing rate of return, evaluating the capital structure of the District, and assessing the liquidity and financial flexibility of the District.

**MUNICIPAL WATER DISTRICT OF ORANGE COUNTY
MANAGEMENT'S DISCUSSION AND ANALYSIS
(UNAUDITED)
(CONTINUED)
JUNE 30, 2018**

All of the current year's revenues and expenses are accounted for in the *Statement of Revenues, Expenses, and Changes in Net Position*. This statement measures the District's operations over the past year and can be used to determine whether the District has successfully recovered all its projected costs through its rates and other service related charges.

The final required financial statement is the *Statement of Cash Flows* which presents information about the District's cash receipts and cash payments during the reporting period classified as cash receipts, cash payments, and net changes in cash resulting from operations, investing, non-capital financing, and capital and related financing activities. This statement also provides comparative information on the sources and uses of the District's cash during the reporting period.

FINANCIAL ANALYSIS OF THE DISTRICT

One of the most important questions asked about the District's finances is: "Is the District, as a whole, financially better off or worse off as a result of the year's activities?" The Statement of Net Position and the Statement of Revenues, Expenses, and Changes in Net Position report information about the District's activities in a way that will help answer this question. These two statements report the net position of the District and changes in them. You can think of the District's net position (the difference between assets plus deferred outflows of resources and liabilities plus deferred inflows of resources) as one way to measure financial health or financial position. Over time, increases or decreases in the District's Net Position are one indicator of whether its financial health is improving or deteriorating. However, you will need to consider other non-financial factors, such as changes in economic conditions, population growth, changes in rates and charges and new or changed government legislation or accounting standards.

**MUNICIPAL WATER DISTRICT OF ORANGE COUNTY
MANAGEMENT'S DISCUSSION AND ANALYSIS
(UNAUDITED)
(CONTINUED)
JUNE 30, 2018**

STATEMENT OF NET POSITION

Net position is the difference between assets plus deferred outflows of resources, and liabilities plus deferred inflows of resources, and may serve over time as a useful indicator of a government's financial position. The following is a summary of the District's Statement of Net Position.

**TABLE 1
Condensed Statements of Net Positions
(In thousands of dollars)
June 30:**

	FY 2018	FY 2017	Variance	Total Percent Change
Current Restricted Assets	\$ 2,593	\$ 3,160	\$ (567)	(17.9%)
Current Unrestricted Assets	48,639	41,664	6,975	16.7%
Capital Assets	1,352	1,364	(12)	(0.9%)
Other Assets	-	483	(483)	(100.0%)
Total Assets	52,584	46,671	5,913	12.7%
Deferred Outflows of Resources	1,024	890	134	15.1%
Liabilities Payable from Restricted Current Assets	1,401	2,046	(645)	(31.5%)
Liabilities Payable from Unrestricted Current Assets	40,256	34,814	5,442	15.6%
Noncurrent Unrestricted Liabilities	2,573	1,871	702	37.5%
Total Liabilities	44,230	38,731	5,499	14.2%
Deferred Inflows of Resources	179	231	(52)	(22.5%)
Net Position:				
Investment in Capital Assets, Net of Related Debt	1,352	1,364	(12)	(0.9%)
Restricted for Trustee Activities	1,192	1,114	78	7.0%
Unrestricted	6,655	6,121	534	8.7%
Total Net Assets	\$ 9,199	\$ 8,599	\$ 600	7.0%

- Total Assets increased by \$5.9 million due to higher water sales of \$3.2 million, early water payments of \$2.2 million, investments increased by \$100k and \$270k went to reserves.
- Total Liabilities increased by \$5.5 million. Higher water sales resulted in higher water purchases, unpaid portion of which increased by \$5.4 million during the year 2018.

**MUNICIPAL WATER DISTRICT OF ORANGE COUNTY
MANAGEMENT'S DISCUSSION AND ANALYSIS
(UNAUDITED)
(CONTINUED)
JUNE 30, 2018**

STATEMENT OF REVENUES, EXPENSES, AND CHANGES IN NET POSITION

While the Statement of Net Position shows the financial position at year-end, the Statement of Revenues, Expenses, and Changes in Net Position provides information as to the results of operations of the District during the year. The District reported an increase in net position of \$1.4 million for the year ended June 30, 2018, as compared to an increase of \$1.1 million for the year ended June 30, 2017. The following is a summary of the change in the District's net position.

**TABLE 2
Condensed Statements of Revenues
Expenses, and Changes in Net Assets
(In thousands of dollars)**

	<u>FY 2018</u>	<u>FY 2017</u>	<u>Variance</u>	<u>Total Percent Change</u>
Operating Revenues	\$ 229,707	\$ 159,287	\$ 70,420	44.2%
Special Projects Revenue	2,343	3,927	(1,584)	(40.3%)
Non-operating Revenues	253	199	54	27.1%
Total Revenues	232,303	163,413	68,890	42.2%
Operating Expense	228,404	158,214	70,190	44.4%
Special Projects Expense	2,343	3,927	(1,584)	(40.3%)
Depreciation Expense	165	148	17	11.5%
Total Expenses	230,912	162,289	68,623	42.3%
Change in Net Position	1,391	1,124	267	23.8%
Beginning Net Position	7,808	7,475	333	4.5%
Ending Net Position	\$ 9,199	\$ 8,599	* \$ 600	7.0%

*For purposes of presenting the prior year information in the management discussion and analysis, the 2017 financial information has not been restated for the effect of GASB 75 implementation due to lack of information.

The source of change in net position is due to the following:

- Operating Revenues and Expenses are higher due to higher water sales.
- In accordance with GASB 75 the District's beginning net position was restated by \$791 thousand. Refer to Note 10.

**MUNICIPAL WATER DISTRICT OF ORANGE COUNTY
MANAGEMENT'S DISCUSSION AND ANALYSIS
(UNAUDITED)
(CONTINUED)
JUNE 30, 2018**

CAPITAL ASSETS

The following is a summary of the District's capital assets at June 30, 2018 and June 30, 2017.

**TABLE 3
Capital Assets
(In thousands of dollars)
June 30:**

	<u>FY 2018</u>	<u>FY 2017</u>	<u>Variance</u>	<u>Total Percent Change</u>
Leasehold Improvements	\$ 3,728	\$ 3,696	\$ 32	0.9%
Furniture, Equipment & Computer Equipment	\$ 571	457	114	24.9%
Subtotal	4,299	4,153	146	3.5%
Less Accumulated Depreciation	(2,947)	(2,789)	(158)	5.7%
Net Capital Assets	<u>\$ 1,352</u>	<u>\$ 1,364</u>	<u>\$ (12)</u>	<u>(0.9%)</u>

The District remodeled the atrium, installed two new glass doors, upgraded an IT server, and purchased new emergency radios and water leak detection equipment. Additional information regarding capital assets can be found in Notes 1 and 4 of the notes to financial statements.

DEBT ADMINISTRATION

The District had no debt outstanding as of June 30, 2018. No new long-term debt was incurred in the year ended June 30, 2018, and the District does not plan to issue new debt in the year ending June 30, 2019.

**MUNICIPAL WATER DISTRICT OF ORANGE COUNTY
MANAGEMENT'S DISCUSSION AND ANALYSIS
(UNAUDITED)
(CONTINUED)
JUNE 30, 2018**

BUDGETARY HIGHLIGHTS

The District is governed by a Board of Directors consisting of seven elected members. The Board adopts an annual appropriated budget prior to the start of the fiscal year. The Budget may be revised by Board action during the fiscal year. All amendments to the budget, or transfers of operating budget appropriations to or from reserve accounts, require Board notification. The General Manager is authorized to transfer budget amounts within programs. The legal level of budgetary control is at the total fund level. An actual vs. budget comparison statement for FY 2017-18 is presented in Table 4 to demonstrate compliance with the adopted budget.

**TABLE 4
FY 2018 Actual vs FY 2018 Budget
(In thousands of dollars)**

	<u>Actual</u>	<u>Budget</u>	<u>Variance</u>	<u>Total Percent Change</u>
Revenues:				
From Operations	\$ 232,050	\$ 182,628	\$ 49,422	27.1%
Non-operating Revenues	253	162	91	56.2%
Total Revenues	<u>232,303</u>	<u>182,790</u>	<u>49,513</u>	<u>27.1%</u>
Expenses:				
From Operations				
Cost of Water	220,617	169,099	(51,518)	(30.5%)
Other Operating	10,130	13,822	3,692	26.7%
Depreciation	165	150	(15)	(10.0%)
Total Expenses	<u>230,912</u>	<u>183,071</u>	<u>(47,841)</u>	<u>(26.1%)</u>
Change In Net Assets	<u>\$ 1,391</u>	<u>\$ (281)</u>	<u>\$ 1,672</u>	<u>(595.0%)</u>

The variances on the budget to actual are as follows:

- Revenues from Operations were \$49.4 million more than budget due to an increase in water sales.
- Expenses from Cost of Water purchased were \$51.5 million higher than budget due to an increase in water sales.
- Expenses from Other Operating were \$3.7 million lower mainly due to projects taking longer and a reduction in the cost of turf removal program. Professional services, engineering and building expense have projects rolling over by \$1.7 million and the turf removal program was lower by \$1.6 million. Other conservation programs were lower by \$400 thousand.

**MUNICIPAL WATER DISTRICT OF ORANGE COUNTY
MANAGEMENT'S DISCUSSION AND ANALYSIS
(UNAUDITED)
(CONTINUED)
JUNE 30, 2018**

ECONOMIC FACTORS AND NEXT YEAR'S BUDGET AND RATES

The District's Board of Directors and management considered many factors during preparation and approval of the annual budget for FY 2018-19. The budgeted operating expenses total \$213.9 million and operating and non-operating revenues total \$213.9 million.

Historically, the District has recouped the cost of water purchased from the resale of imported water to the District's 28 water agencies located in Orange County. In addition MWDOC has charged both a per acre-foot surcharge and a per retail meter charge to cover its operating budget. In past history, the District's operating revenue has been approximately 65% from per retail connection charges, and 35% from per acre-foot charges. Beginning in 2011-12, MWDOC began transitioning from the two-component rate structure to one involving only a single component. Over a five year period, ending in 2015-16, MWDOC had been transitioning from a water rate structure involving a per acre-foot charge and a fixed per retail meter charge to a 100% on the per retail meter charge. Beginning FY 2016-17 MWDOC has established two classes of customers, a retail meter and a groundwater customer. The District's budget is now allocated between retail meter customers and groundwater customers. In addition MWDOC's agencies will also pay for the resale cost of imported water.

CONTACTING THE DISTRICT'S FINANCIAL MANAGEMENT

This financial report is intended to provide the Board of Directors, customers, taxpayers, creditors, and other interested parties with a general overview of the District's financial operations and condition at the year ended June 30, 2018, and to demonstrate the District's accountability for the funds it receives. If you have questions about this report or need additional information, you may contact the Municipal Water District of Orange County, Finance Dept., at 18700 Ward Street, Fountain Valley, CA 92708, (714) 963-3058, www.mwdoc.com.



BASIC FINANCIAL STATEMENTS

**Statement of Net Position
Statement of Revenues
Expenses and Changes in Net Position
Statement of Cash Flows**

MUNICIPAL WATER DISTRICT OF ORANGE COUNTY
Statement of Net Position
June 30, 2018

ASSETS

Current Assets:

Restricted Assets:

Cash and Cash Equivalents (Note 2)	\$	1,635,790
Accounts Receivable Other		951,057
Accrued Interest Receivable		6,453
		6,453
Total Restricted Assets		2,593,300

Unrestricted Assets:

Cash and Cash Equivalents (Note 2)		5,738,482
Investments (Note 2)		6,550,065
Accounts Receivable:		
Water Sales		35,580,199
Other		510,987
Accrued Interest Receivable		75,267
Deposits and Prepaid Expenses		183,576
		183,576
Total Unrestricted Assets		48,638,576
Total Current Assets		51,231,876

Noncurrent Assets:

Unrestricted Assets:

Capital Assets, Net (Note 4)		1,351,853
		1,351,853
TOTAL ASSETS		52,583,729

DEFERRED OUTFLOWS OF RESOURCES

Deferred amount related to pensions (Note 7)		1,023,601
Deferred amount related to OPEB (Note 8)		215
		215
TOTAL DEFERRED OUTFLOWS OF RESOURCES		1,023,816

MUNICIPAL WATER DISTRICT OF ORANGE COUNTY
Statement of Net Position (Continued)
June 30, 2018

LIABILITIES

Current Liabilities:

Payable from Restricted Assets

Accrued Liabilities	\$	446,371
Advances from Participants		954,312
Total Payable from Restricted Assets		1,400,683

Unrestricted Liabilities:

Accounts Payable, Metropolitan Water District of Southern California		38,407,556
Accrued Liabilities		1,848,316
Total Unrestricted Liabilities		40,255,872
Total Current Liabilities		41,656,555

Noncurrent Liabilities:

Unrestricted Liabilities:

Net Pension Liability (Note 7)		2,276,032
Net OPEB Liability (Note 8)		297,147
Total Noncurrent Liabilities		2,573,179
TOTAL LIABILITIES		44,229,734

DEFERRED INFLOWS OF RESOURCES

Deferred amount related to pensions (Note 7)		178,707
TOTAL DEFERRED INFLOWS OF RESOURCES		178,707

NET POSITION

Net Investment in Capital Assets		1,351,853
Restricted		1,192,617
Unrestricted		6,654,634
TOTAL NET POSITION	\$	9,199,105

MUNICIPAL WATER DISTRICT OF ORANGE COUNTY

Statement of Revenues, Expenses and
Changes in Net Position
For the Fiscal Year Ended June 30, 2018

Operating Revenues:

Water Sales	\$ 229,706,556
Special Projects Revenue	1,364,076
Federal Grant Revenue	428,303
State Grant Revenue	550,750
Total Operating Revenues	<u>232,049,685</u>

Operating Expenses:

Cost of Water Sold	220,617,185
Salaries and Employee Benefits	4,879,337
General and Administrative	2,907,711
Special Project Expenses	2,343,129
Depreciation	165,049
Total Operating Expenses	<u>230,912,411</u>
Operating Income	<u>1,137,274</u>

Nonoperating Revenues:

Investment Income	233,523
Other Income	19,938
Total Nonoperating Revenues	<u>253,461</u>

Change in Net Position 1,390,735

NET POSITION - BEGINNING OF YEAR, AS RESTATED (NOTE 10) 7,808,370

NET POSITION - END OF YEAR \$ 9,199,105

MUNICIPAL WATER DISTRICT OF ORANGE COUNTY

Statement of Cash Flows

For the Fiscal Year Ended June 30, 2018

Cash Flows from Operating Activities:

Cash received from member agencies-water deliveries	\$ 226,494,561
Cash payments to Metropolitan Water District of Southern California	(215,239,164)
Cash payments for salaries and employee benefits	(4,670,237)
Cash payments for general and administrative expenses	(3,223,997)
Cash received from special projects	3,761,877
Cash payments for special projects	(3,103,004)
Other income	19,938
	<u>4,039,974</u>
Net Cash provided by Operating Activities	<u>4,039,974</u>

Cash Flows from Noncapital and Related Financing Activities:

(Proceeds from)/Payments to RPOI participants	-
	<u>-</u>
Net Cash provided/(used) by Noncapital and Related Financing Activities	<u>-</u>

Cash Flows from Capital and Related Financing Activities:

Acquisition of capital assets	(153,299)
	<u>(153,299)</u>
Net Cash used by Capital and Related Financing Activities	<u>(153,299)</u>

Cash Flows from Investment Activities:

Investment income	233,523
Investments matured/(purchased)	(3,584,501)
	<u>(3,350,978)</u>
Net Cash used by Investment Activities	<u>(3,350,978)</u>

Net increase in cash and cash equivalents	535,697
Cash and cash equivalents at beginning of year	6,838,575
	<u>7,374,272</u>
Cash and Cash Equivalents at End of Year	<u>\$ 7,374,272</u>

Financial Statement Presentation:

Cash and Cash Equivalents (Restricted)	\$ 1,635,790
Cash and Cash Equivalents (Unrestricted)	5,738,482
	<u>7,374,272</u>
Totals	<u>\$ 7,374,272</u>

MUNICIPAL WATER DISTRICT OF ORANGE COUNTY

Statement of Cash Flows (Continued)
For the Fiscal Year Ended June 30, 2018

**Reconciliation of Operating Income to Net Cash Provided
for Operating Activities**

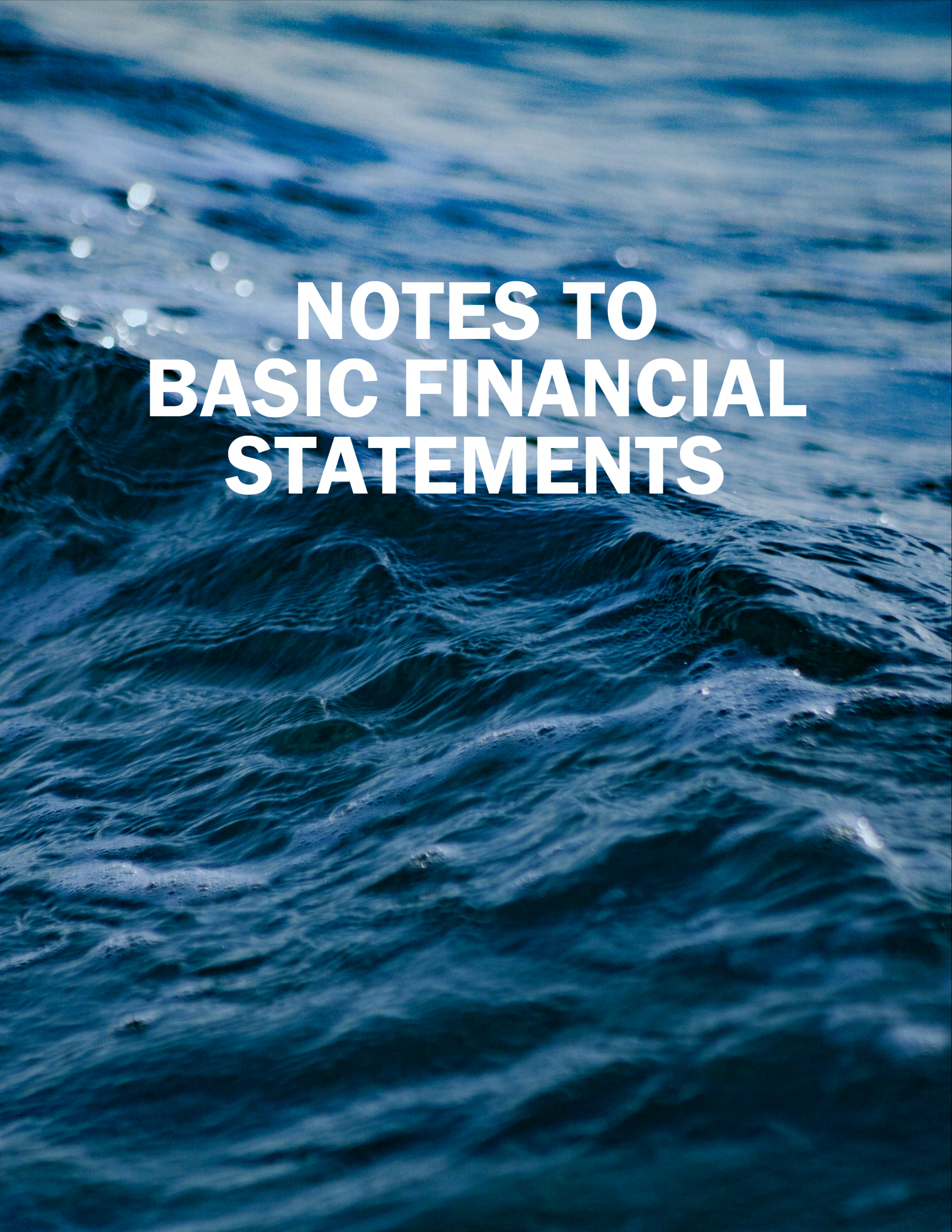
Operating Income \$ 1,137,274

Adjustments to Reconcile Operating Income to Net Cash Provided by
Operating Activities:

Depreciation	165,049
Other Income	19,938
Change in Assets and Liabilities:	
(Increase) in accounts receivable - water sales	(3,211,996)
Decrease in accounts receivable - other	(372,639)
(Increase) in deposits and prepaid expenses	(7,145)
(Increase) in OPEB asset	-
Decrease in accounts receivable - special projects	1,303,699
(Increase) in deferred outflows - pension related	(133,525)
Increase in accrued and other liabilities	63,498
Increase in restricted accrued liabilities	115,048
(Decrease) in advances from participants	(759,874)
(Decrease) in unearned revenue for special projects	-
Increase in accounts payable to Metropolitan Water District of Southern California	5,378,022
Increase in net pension and OPEB liability	394,997
(Decrease) in deferred inflows - pension related	(52,372)
Total Adjustments	<u>2,902,700</u>
Net Cash Provided by Operating Activities	<u>\$ 4,039,974</u>

Noncash investing activities:

Unrealized loss on investments	\$ (84,182)
Total noncash investing activities	<u>\$ (84,182)</u>



NOTES TO BASIC FINANCIAL STATEMENTS

Municipal Water District of Orange County

Notes to Basic Financial Statements
For the Year Ended June 30, 2018

(1) Organization and Summary of Significant Accounting Policies

Reporting Entity

The Municipal Water District of Orange County (the District) was formed as a municipal water district on January 11, 1951 under the Municipal Water District Act of 1911. The District is a wholesale water supplier and resource planning agency that serves all of Orange County through 28 cities and water agencies (except the Cities of Anaheim, Fullerton, and Santa Ana which are independent member agencies of Metropolitan Water District of Southern California (Metropolitan)). As a public agency member of Metropolitan, the District purchases imported water from Metropolitan and provides water to the District's 28 member agencies, which provide retail or wholesale water services to over 2.3 million residents within the District's service area of approximately 600 square miles. The District's primary sources of water from Metropolitan are the California State Water Project (SWP) and the Colorado River Aqueduct.

The District is an independent special district of the State of California governed by an elected seven-member board. On January 2001, the District merged with the Coastal Municipal Water District (Coastal) under the recommendation of the Local Agency Formation Commission of Orange County (LAFCO) as part of an effort to streamline local government. The consolidation of the two agencies allows the new district to more efficiently provide wholesale water services for the benefit of residents living throughout the service area.

The District's reporting entity includes the accounts of the District and the Municipal Water District of Orange County Water Facilities Corporation (WFC). Formed as a separate California nonprofit corporation on April 20, 1978 to assist in the financing of the Allen-McColloch Pipeline (AMP) and the Flow Augmentation Project (FAP), the WFC has no employees. The WFC is governed by a seven-member board comprised of the District's board members. The WFC had no activity or balances for the year ended June 30, 2018 and is kept active for potential future financing arrangements. WFC is a blended component unit of the District and the District has operational responsibility for WFC.

Basic Financial Statements

The District's basic financial statements consist of the Statement of Net Position, the Statement of Revenues, Expenses and Changes in Net Position, the Statement of Cash Flows, and the Notes to the Basic Financial Statements.

Basis of Presentation

The District accounts for its activities as an enterprise fund. An enterprise fund is a proprietary type fund used to account for operations (a) that are financed and operated in a manner similar to private business enterprises - where the intent of the governing body is that the costs (expenses, including depreciation) of providing goods or services to the general public on a continuing basis be financed or recovered primarily through user charges; or (b) where the governing body has decided that periodic determination of revenues earned, expenses incurred, and/or net income is appropriate for capital maintenance, public policy, management control, accountability or other purposes.

The District's basic financial statements have been prepared on the accrual basis of accounting, and are presented on an economic measurement focus reporting all economic resources and obligations as of and for the year ended June 30, 2018.

Municipal Water District of Orange County

Notes to Basic Financial Statements
For the Year Ended June 30, 2018

(1) Organization and Summary of Significant Accounting Policies (Continued)

Net Position

In the Statement of Net Position, net position is classified in the following categories:

- Net Investment in capital assets – This amount consists of capital assets, net of accumulated depreciation, reduced by the outstanding balances of bonds, mortgages, notes, or other borrowings that are attributable to the acquisition, construction, or improvement of those assets as applicable.
- Restricted net position – This amount consists of restricted assets reduced by liabilities. Generally, a liability relates to restricted assets if the asset results from a resource flow that also results in the recognition of a liability or if the liability will be liquidated with the restricted assets reported or a resource subject to constraints that are externally imposed by creditors, grantors, contributors, or laws or regulations of other governments, or imposed by law through constitutional provisions or enabling legislation.
- Unrestricted net position – This amount is the net amount of the assets, deferred outflows of resources, liabilities, and deferred inflows of resources that are not included in the determination of net investment in capital assets or the restricted component of net position.

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

Operating and Nonoperating Revenues and Expenses

The District's primary purpose is to provide a dependable wholesale supply of imported water for its 28 member agencies. Accordingly, operating revenues such as water sales, result from exchange transactions associated with the principal activity of the District, which is the purchase and resale of imported water to the District's member agencies.

Revenues from federal and state grants, reimbursements from participants and special projects, as well as special project expenses are defined as operating revenues and expenses, respectively. Nonoperating revenues consist of investment income and other miscellaneous income.

Water Sales and Cost of Water Sold

Historically, the District's primary source of revenue has been from the resale of imported water to the District's 28 member agencies located in Orange County. Based on Metropolitan's cost of water, each year Metropolitan's Board of Directors approves water rates comprised of a capacity charge, readiness to serve charge and a per acre-foot charge. Metropolitan's rates are based on cost of service studies performed on a biennial basis. Water rates are not subject to regulation by the California Public Utilities Commission or by any other local, state, or federal agency. Revenue from sales of water is recognized on the accrual basis as water is delivered.

The District's revenue is from a per retail meter connection charge and a groundwater customer charge. Choice services are charged directly to the agencies as a "fee for service" on a subscription basis. The member agencies also pay for the resale of imported water in addition to the other charges noted.

Municipal Water District of Orange County

Notes to Basic Financial Statements
For the Year Ended June 30, 2018

(1) Organization and Summary of Significant Accounting Policies (Continued)

Investments

Fair Value Measurements

The District categorizes the fair value measurements of its investments based on the hierarchy established by generally accepted accounting principles. The fair value hierarchy, which has three levels, is based on the valuation inputs used to measure an asset's fair value: Level 1 inputs are quoted prices in active markets for identical assets; Level 2 inputs are significant other observable inputs; Level 3 inputs are significant unobservable inputs.

The District's investment policy and delegation of investment authority, is reviewed and approved each year by the Board of Directors. The investment policy authorizes the Treasurer to invest, reinvest, sell or exchange permitted fixed income securities in accordance with the California Government Code. Investment income from restricted assets remains restricted.

Cash and Cash Equivalents

Cash and cash equivalents are defined as cash and short-term, highly liquid investments (i.e., Local Agency Investment Fund and Orange County Investment Pool) which are readily convertible to cash and mature within ninety (90) days of original purchase.

Accounts Receivable

The District extends credit to customers in the normal course of operations. Management believes all accounts receivable are collectible. In the event any accounts receivable are determined they are uncollectible, an allowance is recorded.

Capital Assets

Capital assets are defined by the District as assets with an initial, individual cost of more than \$5,000 and a useful life greater than one (1) year. Upon retirement, sale or other disposition of capital assets, the cost and related accumulated depreciation are removed from their respective accounts and any gains or losses are recognized. Depreciation is computed using the straight-line method over the estimated useful life of the asset, which range from 3 to 10 years for furniture, fixtures, and equipment, and up to 30 years for leasehold improvements.

Deposits and Prepaid Expenses

Certain payments to vendors reflect costs or deposits applicable to future accounting periods and are recorded as Deposits and Prepaid Expenses in the basic financial statements.

Deferred Outflows and Inflows of Resources

The District reported deferred outflows and inflows of resources related to pensions and OPEB. A deferred outflow of resources is a consumption of net position by the District that is applicable to a future reporting period. A deferred inflow of resources represents an acquisition of net position by the district that is applicable to a future period. Refer to Note 7 and 8 for items identified as deferred inflows and outflows as of June 30, 2018.

Municipal Water District of Orange County

Notes to Basic Financial Statements
For the Year Ended June 30, 2018

(1) Organization and Summary of Significant Accounting Policies (Continued)

Compensated Absences

As vacation leave is a vested employee benefit, the District is obligated to compensate employees for all earned but unused vacation days. Employee vacation days are accrued each pay period and reported as accrued liabilities. Depending on the length of employment, employees earn a minimum of 10 up to a maximum of 21 vacation days per year. Accumulated vacation days may not exceed 2 times the number of days earned per year without prior approval of the General Manager. Sick leave time is a non-vested employee benefit (i.e. accumulated sick leave is not payable in the event of employee termination) and is considered a contingent liability and is not reflected in the accompanying financial statements.

Unearned Revenue

Unearned revenue represents grant revenues received in advance of the recognition of the related expense.

Pensions

For purposes of measuring the net pension liability and deferred outflows/inflows of resources related to pensions, and pension expense, information about the fiduciary net position of the District's California Public Employees Retirement System (CalPERS) plan and additions to and 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.

Postemployment Benefits Other Than Pensions (OPEB)

For purposes of measuring the net OPEB liability, deferred outflows of resources, deferred inflows of resources related to OPEB and OPEB expense, information about the fiduciary net position of the District's OPEB Plan and additions to/deductions from the Plan's fiduciary net position have been determined on the same basis as they are reported by the Plan. For this purpose, the Plan recognizes benefit payments when due and payable in accordance with the benefit terms. Investments are reported at fair value, except for money market investments and participating interest-earning investment contracts that have a maturity at the time of purchase of one year or less, which are reported at cost.

Estimates

The preparation of financial statements in conformity with accounting principles generally accepted in the United States requires management to make estimates and assumptions that could affect certain reported amounts in the financial statements and accompanying notes. Actual results could differ from those estimates. Also, the preparation of the financial statements inherently requires rounding of amounts and estimates. Management believes that any differences due to rounding are not material.

Municipal Water District of Orange County

Notes to Basic Financial Statements
For the Year Ended June 30, 2018

(1) Organization and Summary of Significant Accounting Policies (Continued)

Implementation

During the fiscal year ended June 30, 2018, the District's adopted the following new Statement of the Governmental Accounting Standards Board (GASB):

- GASB statement No. 75, *Accounting and Financial Reporting for Postemployment Benefits Other Than Pensions*. This Statement replaces the requirements of Statements No. 45, *Accounting and Financial Reporting by Employers for Postemployment Benefits Other Than Pensions*, as amended, and No. 57, *OPEB Measurements by Agent Employers and Agent Multiple-Employer Plans*, for OPEB. The scope of this Statement addresses accounting and financial reporting for OPEB that is provided to the employees of state and local governmental employers. This Statement establishes standards for recognizing and measuring liabilities, deferred outflows of resources, deferred inflows of resources, and expense/expenditures. For defined benefit OPEB, this Statement identifies the methods and assumptions that are required to be used to project benefit payments, discount projected benefit payments to their actuarial present value, and attribute that present value to periods of employee service. Note disclosure and required supplementary information requirements about defined benefit OPEB also are addressed in this Statement. Refer also to Note 10.

(2) Cash and Investments

Cash and investments at June 30, 2018, are classified in the accompanying financial statements as follows:

Statement of net position:

Cash and cash equivalents (restricted)	\$ 1,635,790
Cash and cash equivalents (unrestricted)	5,738,482
Investments (unrestricted)	<u>6,550,065</u>
Total Cash and Investments	<u>\$ 13,924,337</u>

Cash and investments as of June 30, 2018 consist of the following:

Cash on hand	\$ 500
Deposits with financial institutions	288,474
Investments	<u>13,635,363</u>
Total Cash and Investments	<u>\$ 13,924,337</u>

Municipal Water District of Orange County

Notes to Basic Financial Statements
For the Year Ended June 30, 2018

(2) Cash and Investments (Continued)

Investments Authorized by the California Government Code and the District's Investment Policy

The table below identifies the investment types that are authorized for the District by the California Government Code (or the District's investment policy, where more restrictive). The table also identifies certain provisions of the California Government Code (or the District's investment policy, where more restrictive) that address interest rate risk and concentration of credit risk. The District's investment policy allows for funds to be divided into two categories. The Operating and Fiduciary Funds authorized investments are below:

<u>Authorized Investment Type</u>	<u>Maximum Maturity</u>	<u>Maximum Percentage of Portfolio</u>	<u>Maximum Investment in One</u>
U.S. Treasuries	5 years	100%	100%
U.S. Government Agencies	5 years	100%	50%
Corporate Securities	5 years	30%	5%
Commercial Paper	270 days	25%	5%
Negotiable Certificates of Deposit	5 years	30%	5%
Bankers' Acceptances	180 days	40%	5%
Repurchase Agreements	1 year	20%	10%
Money Market Mutual Funds	N/A	20%	20%
Collective Investment Pool	N/A	20%	10%
County Investment Pool	N/A	100%	100%
State Investment Pool	N/A	100%	100%

Disclosures Relating to Interest Rate Risk

Interest rate risk is the risk that changes in market interest rates will adversely affect the fair market value of an investment. Generally, the longer the maturity of an investment, the greater the sensitivity of its fair market value to changes in market interest rates. One of the ways that the District manages its exposure to interest rate risk is by purchasing a combination of shorter-term and longer-term investments and by timing cash flows from maturities so that a portion of the portfolio is maturing or coming close to maturity evenly over time as necessary to provide the cash flow and liquidity needed for operations. Information about the sensitivity of the fair market values of the District's investments to market interest rate fluctuations is provided by the following table that shows the distribution of the District's investments by maturity:

Municipal Water District of Orange County

Notes to Basic Financial Statements
For the Year Ended June 30, 2018

(2) Cash and Investments (Continued)

Investment Type	Total	Remaining Maturity (in Months)		
		12 Months or Less	13 to 24 Months	25-60 Months
Negotiable Certificate of Deposits	\$ 1,930,305	\$ 499,865	\$ 497,940	\$ 932,500
Corporate Securities	1,124,277	-	493,570	630,707
Orange County Investment Pool	6,660,180	6,660,180	-	-
State Investment Pool	3,920,601	3,920,601	-	-
	<u>\$13,635,363</u>	<u>\$11,080,646</u>	<u>\$ 991,510</u>	<u>\$1,563,207</u>

Disclosures Relating to Credit Risk

Generally, credit risk is the risk that an issuer of an investment will not fulfill its obligation to the holder of the investment. This is measured by the assignment of a rating by a nationally recognized statistical rating organization. Presented below is the minimum rating required by (where applicable) the California Government Code or District's investment policy, or debt agreements, and the actual rating by Standard and Poor's (S&P) as of the year end of each investment type. The District purchases all investments at the minimum rating but some investments' ratings may downgrade during its life but it is the District's policy to hold investments until their maturity.

Investment Type	Total	Minimum Legal Rating	Ratings as of Year End				
			AAAm	A	A-	AA-	Not Rated
Negotiable Certificate of Deposits	\$ 1,930,305	N/A	\$ -	\$ -	\$ -	\$ -	\$ 1,930,305
Corporate Securities	1,124,277	A	-	192,428	739,623	192,226	-
Orange County Investment Pool	6,660,180	N/A	6,660,180	-	-	-	-
State Investment Pool	3,920,601	N/A	-	-	-	-	3,920,601
	<u>\$ 13,635,363</u>		<u>\$ 6,660,180</u>	<u>\$ 192,428</u>	<u>\$ 739,623</u>	<u>\$ 192,226</u>	<u>\$ 5,850,906</u>

** Investments conformed to District's Investment Policy at time of acquisition

Municipal Water District of Orange County

Notes to Basic Financial Statements
For the Year Ended June 30, 2018

(2) Cash and Investments (Continued)

Disclosures Relating to Fair Value Measurement and Application

Fair value measurements are categorized based on the valuation inputs used to measure fair value: Level 1 inputs are quoted prices in active markets for identical assets, Level 2 inputs are significant other observable inputs; Level 3 inputs are significant unobservable inputs. Investments categorized as Level 2 are valued using a market approach using quoted market prices. Values are determined using pricing models and discounted cash flow models and includes management judgement and estimation. Uncategorized investments include investments in a non 2a-7 like pool, such as the Local Agency Investment Fund (LAIF) and the Orange County Investment Pool (OCIP). These investments do not have a legally binding guarantee for its share price and cannot have a measured amortized cost.

The District had the following recurring fair value measurements as of June 30, 2018:

Investment Type	Fair Value Application			
	1	2	3	Uncategorized
Negotiable Certificate of Deposits	\$ 1,930,305	\$ -	\$ 1,930,305	\$ -
Corporate Securities	1,124,277	-	1,124,277	-
Orange County Investment Pool	6,660,180	-	-	6,660,180
State Investment Pool	3,920,601	-	-	3,920,601
	<u>\$13,635,363</u>	<u>\$ -</u>	<u>\$ 3,054,582</u>	<u>\$ 10,580,781</u>

Investments in LAIF and OCIP are uncategorized as deposits and withdrawals are made on the basis of \$1 and not fair value. Accordingly, under the fair value hierarchy, these investments are uncategorized.

Concentration of Credit Risk

The District's investment policy contains limitations on the amount that can be invested in any one issuer as stipulated by the California Government Code. At June 30, 2018 the District did not have investments in more than one issuer (other than U.S. Treasury securities, mutual funds, external investment pools) that represented 5% or more of total District investments.

Custodial Credit Risk

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

Municipal Water District of Orange County

Notes to Basic Financial Statements
For the Year Ended June 30, 2018

(2) Cash and Investments (Continued)

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 (unless so waived by the governmental unit). The market value of the pledged securities in the collateral pool must equal at least 110% of the total amount deposited by the public agency. The Government Code also allows financial institutions to secure public agency deposits by pledging first trust deed mortgage notes having a value of 150% of the secured public deposits.

As of June 30, 2018 the District's deposits with financial institutions are covered by the Federal Deposit Insurance Corporation up to \$250,000, the remaining amounts of \$316,561 were collateralized as described above.

Investment in State and County Investment Pool

The District is a voluntary participant in LAIF that is regulated by California Government Code Section 16429 under the oversight of the Treasurer of the State of California, and in the OCIP under the oversight of the Orange County Treasurer. The fair market value of the District's investment in these pools are reported in the accompanying financial statements at amounts based upon the District's pro-rata share of the fair market value provided by LAIF and OCIP for the entire LAIF and OCIP portfolios (in relation to the amortized cost of that portfolio). The balance available for withdrawal is based on the accounting records maintained by LAIF and OCIP, which are recorded on an amortized cost basis.

LAIF is a governmental investment pool managed and directed by the California State Treasurer and is not registered with the Securities and Exchange Commission. An oversight committee comprised of California State officials and various participants provides oversight to the management of the fund. The daily operations and responsibilities of LAIF fall under the auspices of the State Treasurer's office.

The Agency is a participant in the OCIP. The OCIP is an external investment pool, and is not registered with the Securities Exchange Commission (SEC). The County Treasury Oversight Committee conducts OCIP oversight. The OCIP values participant shares on an amortized cost basis during the year and adjusts to fair value at year-end. For further information regarding the OCIP, refer to the County of Orange Comprehensive Annual Financial Report.

(3) Restricted Assets

Restricted assets are monies held in restricted funds or accounts by the District for the benefit of member agencies, including a rate stabilization fund. As of June 30, 2018, \$2,593,300 was reported as restricted assets related to member agency activities.

Municipal Water District of Orange County

Notes to Basic Financial Statements
For the Year Ended June 30, 2018

(4) Capital Assets

The following is a summary of capital assets at June 30, 2018 with changes therein:

	<u>2017</u>	<u>Additions</u>	<u>Deletions</u>	<u>2018</u>
Furniture, Fixtures and Equipment	\$ 457,310	\$120,380	\$ (7,073)	\$ 570,618
Leasehold Improvements	3,695,600	32,919	-	3,728,519
	<u>4,152,910</u>	<u>153,299</u>	<u>(7,073)</u>	<u>4,299,137</u>
Less accumulated depreciation:				
Furniture, Fixtures and Equipment	(414,749)	(9,534)	7,073	\$ (417,210)
Leasehold Improvements	(2,374,557)	(155,516)	-	(2,530,073)
	<u>(2,789,306)</u>	<u>(165,050)</u>	<u>7,073</u>	<u>(2,947,284)</u>
Net Capital Assets	<u>\$1,363,604</u>	<u>\$ (11,751)</u>	<u>\$ -</u>	<u>\$1,351,853</u>

(5) Deferred Pension Plan

The District sponsors a Money Purchase Pension Plan (the Pension Plan), a defined contribution plan, under Internal Revenue Code Section 401(a) for the benefit of its Board of Directors. The Directors contribute 7.5 percent of their covered compensation to the Pension Plan. The Directors' contributions to the Pension Plan totaled \$25,529 for the year ended June 30, 2018. Participants become vested in the Pension Plan at a rate of 20% per year of service until they are fully vested after five (5) years.

District employees were previously part of the Pension Plan until March 2013 when they became members of the CalPERS plan. See Note 7.

(6) Risk Management

The District is a member of the Association of California Water Agencies Joint Powers Insurance Authority (JPIA) (Insurance Authority). The Insurance Authority is a risk-pooling self-insurance authority, created under provisions of California Government Code Sections 6500 et. seq. The purpose of the Insurance Authority is to arrange and administer programs of insurance for the pooling of self-insured losses and to purchase excess insurance coverage for participating member agencies.

The Insurance Authority bills the District a deposit premium at the beginning of each year, which is placed in a reserve fund to cover the self-insurance portion of any claim. Settlements and/or expenses related to claims during the year are then charged to the reserve. If the balance of the reserve at the end of the year is deemed too low in relation to the amount of outstanding claims, the District is billed for additional premiums. When the claims are fully settled, any amounts remaining in the reserve are refunded to the District.

At June 30, 2018, the District participated in the self-insurance programs as follows:

Property Loss - The Insurance Authority has pooled self-insurance up to \$100,000 per occurrence and has purchased excess insurance coverage up to \$500 million. The District has a \$1,000 deductible for buildings, personal property and fixed equipment.

General, Auto and Public Officials Liability - The Insurance Authority has pooled self-insurance up to \$5 million per occurrence, and has purchased excess insurance coverage up to \$60 million.

Municipal Water District of Orange County

Notes to Basic Financial Statements
For the Year Ended June 30, 2018

(6) Risk Management (Continued)

Crime Policy/Fidelity Bond - The Insurance Authority has pooled self-insurance up to \$100,000 per occurrence and has purchased excess insurance coverage up to \$3 million. The District has a \$1,000 deductible.

The District pays annual premiums to the Insurance Authority for all coverages. There were no instances in the past three years when a settlement exceeded the District's coverage.

Workers' Compensation – This Plan is administered through the Special District Risk Management Authority (SDRMA). The SDRMA is self-insured up to the statutory limit per occurrence.

Employer's liability is insured up to a \$5 million limit per occurrence. ACWA/JPIA maintains a Self-Insured Retention that is periodically adjusted based on market conditions.

The District pays annual premiums for all coverages. There were no instances in the past three years when a settlement exceeded the District's coverage and the District did not file any claims against any of the policies.

(7) Cost-Sharing Defined Benefit Plan

General Information about the Pension Plan

Plan Descriptions – Effective March 1, 2013, all qualified regular full-time employees working over 1,000 hours in a fiscal year are eligible to participate in the District's employee pension plan, a cost-sharing multiple employer defined benefit pension plan administered by CalPERS. The CalPERS Plans (the Plans) consists of a miscellaneous pool and a safety pool (referred to as "risk pools"), which are comprised of individual employer miscellaneous and safety rate plans, respectively. The risk pools are included within the Public Employees' Retirement Funds C (PERF C). Benefit provisions under the Plans are established and may be amended by State statute and the District's resolution. CalPERS issues publicly available reports that include a full description of the pension plans regarding benefit provisions, assumptions, membership information, and related financial information can be found on the CalPERS website at: <http://www.calpers.ca.gov>.

Benefits Provided – CalPERS provides retirement and disability benefits, annual cost of living adjustments and death benefits to plan members, who must be public employees and beneficiaries. Benefits are based on years of credited service, equal to one year of full time employment. Members with five years of total service are eligible to retire at age 50 with statutorily reduced benefits. All members are eligible for non-duty disability benefits after 10 years of service. The death benefit is one of the following: the Basic Death Benefit, the 1959 Survivor Benefit or the Optional Settlement 2W Death Benefit. The cost of living adjustments for each plan are applied as specified by the Public Employees' Retirement Law.

Municipal Water District of Orange County

Notes to Basic Financial Statements
For the Year Ended June 30, 2018

(7) Cost-Sharing Defined Benefit Plan (Continued)

The Plans' provisions and benefits in effect at June 30, 2018, are summarized as follows:

	Miscellaneous	
	Prior to January 1, 2013	On or after January 1, 2013
Hire Date		
Formula	2.0% @55	2.0% @62
Benefit vesting schedule	5 years of service	5 years of service
Benefit payments	monthly for life	monthly for life
Retirement age	50-63	52-67
Monthly benefits, as a % of annual salary	1.426% to 2.418%	1.0% to 2.5%
Required employee contribution rates	7%	6.250%
Required employer contribution rates	9.921%	6.533%
Pensionable Compensation Cap*	No Cap	\$140,424

* Will increase to reflect changes in the Consumer Price Index

Contributions – Section 20814(c) of the California Public Employees' Retirement law requires that the employer contribution rates for all public employers are determined on an annual basis by the actuary and shall be effective on the July 1 following notice of a change in rate. Funding contributions for Plans are determined annually on an actuarial basis as of June 30 by CalPERS. 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 District is required to contribute the difference between the actuarially determined rate and the contribution rates of employees.

Contributions recognized by the Plans from the employer for the year ended June 30, 2018 were \$273,125. The District also contributed 1% of the Classic Plan employee's contribution, or \$20,057, on behalf of employees during the year. The District has phased out contributions paid on behalf of employees as of July, 2018.

Pension Liabilities, Pension Expenses and Deferred Outflows / Inflows of Resources Related to Pensions

As of June 30, 2018, the District's reported net pension liabilities for its proportionate share of the net pension liability of the Plan is as follows:

	Proportionate Share of Net Pension Liability
Miscellaneous	<u>\$ 2,276,032</u>

Municipal Water District of Orange County

Notes to Basic Financial Statements

For the Year Ended June 30, 2018

(7) Cost-Sharing Defined Benefit Plan (Continued)

The District's net pension liability was measured as the proportionate share of the net pension liability of the collective cost-sharing plan. The District's net pension liability was measured as of June 30, 2017, and the total pension liability for the Plan was used to calculate the net pension liability determined by an actuarial valuation as of June 30, 2016 rolled forward to June 30, 2017 using standard update procedures. The District's proportion of the net pension liability was based on a projection of the District's long-term share of contributions to the pension plan relative to the projected contributions of all participating employers, actuarially determined. The District's proportionate share of the net pension liability for the Plan as of June 30, 2016 and 2017 were as follows:

	Miscellaneous
Proportion - June 30, 2016	0.05387%
Proportion - June 30, 2017	0.05774%
Change - Increase (Decrease)	0.00386%

For the year ended June 30, 2018, the District recognized pension expense/(credit) of \$538,294.

At June 30, 2018, the District reported deferred outflows of resources and deferred inflows of resources related to pensions from the following sources:

	Deferred Outflows of Resources	Deferred Inflows of Resources
Differences between Expected and Actual Experience	\$ 3,588	\$ 51,412
Changes of Assumptions	445,245	33,950
Differences between Projected and Actual Investment Earnings	100,696	-
Change in Employer's Proportion Differences between District Contributions and Proportionate Share of Contributions	193,243	24,934
	7,704	68,411
Pension Contributions Made Subsequent to Measurement Date	273,125	-
Total	\$ 1,023,601	\$ 178,707

The amount of \$273,125 reported as deferred outflows of resources related to contributions subsequent to the measurement date will be recognized as a reduction of the net pension liability in the year ended June 30, 2019. Other amounts reported as deferred outflows of resources and deferred inflows of resources related to pensions will be recognized as pension expense as follows:

Municipal Water District of Orange County

Notes to Basic Financial Statements
For the Year Ended June 30, 2018

(7) Cost-Sharing Defined Benefit Plan (Continued)

Year ended June 30,	
2019	\$ 174,613
2020	274,339
2021	182,601
2022	<u>(59,785)</u>
	<u>\$ 571,768</u>

Actuarial Assumptions – The total pension liabilities in the June 30, 2016 actuarial valuation were determined using the following actuarial assumptions.

	<u>Miscellaneous</u>
Valuation Date	June 30, 2016
Measurement Date	June 30, 2017
Actuarial Cost Method	Entry-Age Normal Cost Method
Actuarial Assumptions:	
Discount Rate	7.15%
Inflation	2.75%
Salary Increases	Varies by Entry Age and Service
Mortality Rate Table ¹	Derived using CalPERS' Membership Data for all Funds
Post Retirement Benefit Increase	Contract COLA up to 2.75% until Purchasing Power Protection Allowance Floor on Purchasing Power applies, 2.75% thereafter

¹ The mortality table used was developed based on CalPERS-specific data. The table includes 20 years of mortality improvements using Society of Actuaries Scale BB. For more details on this table, please refer to the April 2014 CalPERS Experience Study report.

All other significant actuarial assumptions used in the June 30, 2016 valuations were based on the results of the actuarial experience study for the period from 1997 to 2011. The Experience Study report may be accessed on the CalPERS website at www.calpers.ca.gov under Forms and Publications.

Discount Rate – The discount rate used to measure the total pension liability was 7.15 percent. To determine whether the municipal bond rate should be used in the calculation of the discount rate for each plan, CalPERS stress tested plans that would most likely result in a discount rate that would be different from the actuarially assumed discount rate. The tests revealed the assets would not run out. Therefore, the current 7.15 percent discount rate is appropriate and the use of the municipal bond rate calculation is not deemed necessary. The long-term expected discount rate of 7.15 percent is applied to all plans in the Public Employees' Retirement Fund (PERF). The cash flows used in the testing were developed assuming that both members and employers will make their required contributions on time and as scheduled in all future years. The stress test results are presented in a detailed report called "GASB Crossover Testing Report" that can be obtained at CalPERS website under the GASB 68 section.

Municipal Water District of Orange County

Notes to Basic Financial Statements

For the Year Ended June 30, 2018

(7) Cost-Sharing Defined Benefit Plan (Continued)

The long-term expected rate of return on pension plan investments was determined using a building-block method in which 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 expected 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. Taking into account historical returns of all the funds' asset classes, expected compound (geometric) returns were calculated over the short-term (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 table below reflects long-term expected real rate of return by asset class. The rate of return was calculated using the capital market assumptions applied to determine the discount rate and asset allocation. The target allocation shown was adopted by the Board effective on July 1, 2016.

Asset Class	Target Allocation	Long-term Expected Real Rate of Return Years 1-10 ¹	Long-term Expected Real Rate of Return Years 11 + ²
Global Equity	47%	4.90%	5.38%
Fixed Income	19%	0.80%	2.27%
Inflation Assets	6%	0.60%	1.39%
Private Equity	12%	6.60%	6.63%
Real Estate	11%	2.80%	5.21%
Infrastructure and Forestland	3%	3.90%	5.36%
Liquidity	2%	(0.40%)	(0.90%)
Total	100%		

¹ An expected inflation of 2.5% used for this period

² An expected inflation of 3.0% used for this period

Sensitivity of the District's Proportionate Share of the Net Pension Liability to Changes in the Discount Rate – The following presents the District's proportionate share of the net pension liability, calculated using the discount rate, as well as what the District's proportionate share of net pension liability would be if it were calculated using a discount rate that is 1-percentage point lower or 1-percentage point higher than the current rate.

	1% Decrease (6.15%)	Discount Rate (7.15%)	1% Increase (8.15%)
District's Net Pension Liability/(Asset)	\$ 3,743,688	\$ 2,276,032	\$ 1,060,492

Municipal Water District of Orange County

Notes to Basic Financial Statements
For the Year Ended June 30, 2018

(7) Cost-Sharing Defined Benefit Plan (Continued)

Pension Plan Fiduciary Net Position – Detailed information about the pension plan’s fiduciary net position is available in the separately issued CalPERS financial reports.

Amortization of Deferred Outflows and Deferred Inflows of Resources

Under GASB 68, gains and losses related to changes in total pension liability and fiduciary net position are recognized in pension expense systematically over time.

The first amortized amounts are recognized in pension expense for the year the gain or loss occurs. The remaining amounts are categorized as deferred outflows and deferred inflows of resources related to pensions and are to be recognized in future pension expense.

The amortization period differs depending on the source of the gain or loss:

Net Difference between projected and actual earnings on pension plan investments	5 year straight-line amortization
All other amounts	Straight-line amortization over the expected average remaining service lifetime (EARSL) of all members that are provided with benefits (active, inactive, and retired) as of the beginning of the measurement period

(8) Retiree Medical Plan – Other-Post-Employment Benefits (OPEB)

Plan Description:

Effective October 1, 2011, the District established a Post-Retirement Healthcare Plan (Health Plan), and has contributed to a Section 115 Irrevocable Exclusive Benefit Trust for the pre-funding of post-employment health care costs. Currently, the District provides health insurance for its retired employees and their dependent spouses (if married and covered on the District’s plan at time of retirement), or survivors in accordance with Board resolutions. Medical coverage is provided for retired employees who are age 55 or over and who have a minimum of 10 consecutive years of full-time service with the District. The District pays 100% of the premium for the lowest cost single retiree plan plus 90% of the difference to the plan actually selected, plus 80% of the combined retiree and spouse’s medical premium until age 65. If a retiree in receipt of these benefits dies before reaching age 65, the surviving spouse will continue to receive coverage that the retiree would have been entitled to until age 65 only. When a retiree reaches age 65 and/or is eligible for Medicare, the District reimburses the retiree up to \$1,800 per calendar year for the cost of Supplemental Medical Insurance and Medicare Prescription Drug (Part D) Insurance for the lifetime of the retiree only. Retirees who complete at least 25 consecutive years of full-time service receive District-paid dental and vision benefits along with the above-mentioned medical coverage and post-age 65 coverage includes Medicare Part B premium reimbursements until the time of the retiree and spouse’s death. Employees hired on or after July 1, 2012 are ineligible for District-paid retiree health benefits.

Municipal Water District of Orange County

Notes to Basic Financial Statements
For the Year Ended June 30, 2018

(8) Retiree Medical Plan – Other-Post-Employment Benefits (OPEB) (Continued)

Plan benefits and contribution requirements of Health Plan members and the District are established, and may be amended, by the District's Board of Directors.

The following parties are responsible for administration of the Health Plan:

- Public Agency Retirement Services (PARS) serves as Trust Administrator and Consultant
- US Bank serves as Trustee, and
- HighMark Capital Management (HighMark) serves as Investment Manager

PARS issues monthly account reports to the District and HighMark publishes quarterly performance reports.

Plan membership. At June 30, 2018, membership consisted of the following:

Inactive plan members or beneficiaries currently receiving benefit payments	12
Active plan members	<u>14</u>
Total	<u><u>26</u></u>

Funding Policy:

The contribution requirements of Health Plan members and the District are established, and may be amended, by the District's Board of Directors. Currently, contributions are not required from Health Plan members. The District has fully funded the OPEB obligation with the addition of an OPEB Designated Reserve account.

Net OPEB Liability:

The District's Net OPEB Liability was measured as of June 30, 2018 and the Total OPEB Liability used to calculate the Net OPEB Liability was determined by an actuarial valuation as of June 30, 2018.

Actuarial assumptions:

The total OPEB liability was determined using the following actuarial assumptions, applied to all periods included in the measurement, unless otherwise specified:

Salary increases	3.00%
Investment rate of return	6.00%, net OPEB plan investment expense
Healthcare cost trend rate	6.00% for 2018; 5% for 2019 thru 2021 and later years

Pre-retirement mortality rates were based on the RP-2014 Employee Mortality Table for Males or Females, as appropriate, without projection. Post-retirement mortality rates were based on the RP-2014 Health Annuitant Mortality Table for Males or Females, as appropriate, without projection.

Municipal Water District of Orange County

Notes to Basic Financial Statements
For the Year Ended June 30, 2018

(8) Retiree Medical Plan – Other-Post-Employment Benefits (OPEB) (Continued)

Projections of benefits for financial reporting purposes are based on the substantive plan (the plan as understood by the employer and the plan members) and include the types of benefits provided at the time of each valuation and the historical pattern of sharing of benefit costs between the employer and the plan members at that point. The actuarial methods and assumptions used include techniques that are designed to reduce the effects of short-term volatility in actuarial accrued liabilities and the actuarial value of assets consistent with the long-term perspective of the calculations.

Actuarial assumptions used in the June 30, 2018 valuation were based on a review of plan experience during the period July 1, 2016 to June 30, 2018.

Discount rate:

GASB 75 requires a discount rate that reflects the following:

- a) The long-term expected rate of return on OPEB plan investments – to the extent that the OPEB plan’s fiduciary net position (if any) is projected to be enough to make projected benefit payments and assets are expected to be invested using a strategy to achieve that return;
- b) A yield or index rate for 20-year, tax-exempt general obligation municipal bonds with an average rating of AA/Aa or higher – to the extent that the conditions in (a) are not met.

To determine a resulting single (blended) rate, the amount of the plan’s projected fiduciary net position and the amount of projected benefit payments is compared in each period of projected benefit payments. The discount rate used to measure the District’s Total OPEB liability is based on these requirements and the following information:

Valuation Date	June 30, 2018
Reporting Date	June 30, 2018
Measurement Date	June 30, 2018
Long-Term Expected Return of Plan Investments	6.00%
Municipal Bond 20-Year High Grade Rate Index	3.62%
Discount Rate	6.00%

The components of the net OPEB liability at June 30, 2018, were as follows:

Total OPEB liability	\$ 2,374,867
Plan fiduciary net position	\$ 2,077,720
Net OPEB liability	\$ 297,147
Covered payroll	\$ 275,382
Net OPEB liability (asset) as a percentage of covered payroll	107.90%
Plan fiduciary net position as a percentage of the total OPEB liability	87.49%

Municipal Water District of Orange County

Notes to Basic Financial Statements

For the Year Ended June 30, 2018

(8) Retiree Medical Plan – Other-Post-Employment Benefits (OPEB) (Continued)

Schedule of Change in Net OPEB Liability:

	Increase (Decrease)		
	Total OPEB Liability	Plan Fiduciary Net Position	Net OPEB Liability
Balances at July 1, 2017	<u>\$ 2,267,077</u>	<u>\$ 1,960,367</u>	<u>\$ 306,710</u>
Changes for the year:			
Service Cost	33,406	-	33,406
Interest	134,254	-	134,254
Differences between expected and actual experience	-	-	-
Change in assumptions	-	-	-
Net investment income		128,809	(128,809)
Contributions			
Employer - cash subsidy	-	59,870	(59,870)
Employer - implicit subsidy	-	-	-
Employee	-	-	-
Benefit payments, including implicit subsidy associated with benefits paid	(59,870)	(59,870)	-
Administrative expense		(11,456)	11,456
Other changes	-	-	-
Net changes	<u>107,790</u>	<u>117,353</u>	<u>(9,563)</u>
Balances at June 30, 2018	<u><u>\$2,374,867</u></u>	<u><u>\$2,077,720</u></u>	<u><u>\$ 297,147</u></u>

Sensitivity of the net OPEB liability to changes in the discount rate:

The following presents the net OPEB liability, as well as what the net OPEB liability would be if it were calculated using a discount rate that is 1-percentage point lower (5.00 percent) or 1-percentage-point higher (7.00 percent) than the current discount rate:

	1% Decrease (5.00%)	Discount Rate (6.00%)	1% Increase (7.00%)
Net OPEB Liability (Asset)	\$ 655,440	\$ 297,147	\$ 7,484

Municipal Water District of Orange County

Notes to Basic Financial Statements

For the Year Ended June 30, 2018

(8) Retiree Medical Plan – Other-Post-Employment Benefits (OPEB) (Continued)

Sensitivity of the net OPEB liability to changes in the healthcare cost trend rates:

The following presents the net OPEB liability, as well as what the net OPEB liability would be if it were calculated using healthcare cost trend rates that are 1-percentage-point lower (5.00 percent decreasing to 4.00 percent) or 1-percentage-point higher (7.00 percent decreasing to 6.00 percent) than the current healthcare cost trend rates:

	1% Decrease (5.00% decreasing to 4.00%)	Trend Rate (6.00% decreasing to 5.00%)	1% Increase (7.00% decreasing to 6.00%)
Net OPEB liability (asset)	\$ 10,262	\$ 297,147	\$ 652,316

OPEB Expense and Contribution

For the year ended June 30, 2018, the District made a total contribution of \$53,623, which represent actual health care costs for its retirees and their covered dependents.

For the year ended June 30, 2018, the District's OPEB expense was \$50,092, which includes the implicit subsidy.

Service Cost	\$ 33,406
Interest Cost	134,254
Expected Return on Assets	(117,622)
Recognition of Deferred Outflows and Inflows	
Difference between projected and actual investments	54
Total OPEB Expense	<u>\$ 50,092</u>

Actuarially Determined Contribution

The following shows the actuarial determined contribution for the year ended June 30, 2018:

Service Cost	\$ 33,406
Net OPEB Liability Amortization Payment (30-year)	15,472
Total	<u>\$ 48,878</u>

Deferred Outflows of Resources and Deferred Inflows of Resources Related to OPEB

At June 30, 2018, the District's deferred outflows of resources and deferred inflows of resources related to OPEB from the following sources are:

	Deferred Outflows of Resources	Deferred Inflows of Resources
Differences between projected and actual return investments	<u>\$ 215</u>	<u>\$ -</u>

Municipal Water District of Orange County

Notes to Basic Financial Statements

For the Year Ended June 30, 2018

(8) Retiree Medical Plan – Other-Post-Employment Benefits (OPEB) (Continued)

Amounts reported as deferred outflows and deferred inflows of resources will be recognized in OPEB expense as follows:

Year ended June 30,	
2019	\$ 54
2020	54
2021	54
2022	53
	<u>\$ 215</u>

Investments Return

For the year ended June 30, 2018 the annual money-weighted rate of return on investments, net of investment expense, was 6.58 percent. The money-weighted rate of return expresses investment performance, net of investment expense, adjusted for the changing amounts invested.

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

<u>Asset Class</u>	<u>Target Allocation</u>	<u>Long-Term Expected Real Rate of Return</u>
Domestic equity	40%	5.8%
Fixed income	35	1.0
Private equity	20	6.0
Real estate	3	5.9
Cash	2	0.0
Total	<u>100%</u>	

(9) Commitments and Contingencies

The District is involved in various litigation from time to time arising from the normal course of business. In the opinion of management and legal counsel, the District is not involved in any litigation that is expected to have a material adverse effect on the overall financial position of the District at June 30, 2018.

Municipal Water District of Orange County

Notes to Basic Financial Statements
For the Year Ended June 30, 2018

(10) Prior Period Adjustments

The District implemented GASB 75 effective July 1, 2017. Refer to Note 8 for further disclosures related to the Plan and related balances. As a result of the implementation, the District restated the net position as of June 30, 2017 as noted below:

Beginning of year, as previously reported	
Net Position	\$ 8,598,626
GASB 45 Net OPEB Obligation June 30, 2017 balance	(483,546)
GASB 75 Net OPEB Liability as of measurement date of June 30, 2017	<u>(306,710)</u>
Beginning of year, as restated	
Net Position	<u>\$ 7,808,370</u>

Following is the pro forma effect of the retroactive application:

	June 30, 2017 Previously Presented	Restatement	July 1, 2017 Restated
Net OPEB asset	\$ 483,546	\$ (483,546)	-
Net OPEB liability	-	(306,710)	(306,710)

(11) Subsequent Events

The District has evaluated events or transaction through November 21, 2018, the date on which the financial statements were available to be issued, for potential recognition or disclosure in the financial statements and determined no other subsequent matters require disclosure or adjustment to the accompanying financial statements.



**REQUIRED
SUPPLEMENTARY
INFORMATION**
(Unaudited)

Municipal Water District of Orange County
Required Supplementary Information (Unaudited)
For the Year Ended June 30, 2018

**Schedule of Changes in Net OPEB Liability and Related Ratios
for the Measurement Periods Ended June 30**

Measurement Period	2018
Total OPEB Liability	
Service cost	\$ 33,406
Interest on the total OPEB liability	134,254
Actual and expected experience difference	-
Changes in assumptions	-
Changes in benefit terms	-
Benefit payments	(59,870)
Net change in total OPEB liability	107,790
Total OPEB liability - beginning	2,267,077
Total OPEB liability - ending (a)	\$ 2,374,867
 Plan Fiduciary Net Position	
Contribution - employer	\$ 59,870
Net investment income	128,809
Benefit payments	(59,870)
Administrative expense	(11,456)
Net change in plan fiduciary net position	117,353
Plan fiduciary net position - beginning	1,960,367
Plan fiduciary net position - ending (b)	\$ 2,077,720
Net OPEB liability - ending (a)-(b)	\$ 297,147
Plan fiduciary net position as a percentage of the total OPEB liability	87.49%
Covered-employee payroll	\$ 1,933,612
Net OPEB liability as a percentage of covered-employee payroll	15.37%

Historical information is required only for measurement periods for which GASB 75 is applicable.
Future years' information will be displayed up to 10 years as information becomes available.

Municipal Water District of Orange County
 Required Supplementary Information (Unaudited)
 For the Year Ended June 30, 2018

Schedule of OPEB Contributions
Last Ten Fiscal Years*

Fiscal Year Ended June 30	2018
Actuarially Determined Contribution (ADC)	\$ 48,878
Contributions in relation to the ADC	(59,870)
Contribution deficiency (excess)	\$ (10,992)
Covered-employee payroll	\$ 1,933,612
Contributions as a percentage of covered-employee payroll	3.10%

Notes to Schedule:

Actuarial methods and assumptions used to set the actuarially determined contributions for Fiscal Year 2018 were from the June 30, 2018 actuarial valuation.

Methods and assumptions used to determine contributions:

Actuarial Cost Method	Entry Age
Amortization Method/Period	Level percent of payroll over a closed rolling 15-year period
Asset Valuation Method	5-year smoothed market
Inflation	2.75%
Payroll Growth	3% per annum, in aggregate
Investment Rate of Return	6.00 percent, net of OPEB plan investment expense
Healthcare cost-trend rates	6.00% for 2018; 5.00% for 2019; 5.00 % for 2020 and 5.00% for 2021 and later years
Retirement Age	55
	The probabilities of Retirement are based on the 2014 CalPERS Experience Study for the period from 1997 to 2011.
Mortality	Pre-retirement mortality probability based on the RP-2014 Employee Mortality Table for Males or Females, as appropriate, without projection. Post-retirement mortality rates were based on the RP-2014 Health Annuitant Mortality Table for Males or Females, as appropriate, without projection.

*Historical information is required only for measurement periods for which GASB 75 is applicable.

Future years' information will be displayed up to 10 years as information becomes available.

Municipal Water District of Orange County
 Required Supplementary Information (Unaudited)
 For the Year Ended June 30, 2018

Cost Sharing Retirement Plan
Schedule of the District's Proportional Share of the Net Pension Liability
Last Ten Years*

	<u>2018</u>	<u>2017</u>	<u>2016</u>	<u>2015</u>
Proportion of the net pension liability	0.05774%	0.05387%	0.05019%	0.02186%
Proportionate share of the net pension liability	\$2,276,032	\$1,871,472	\$1,376,955	\$1,360,017
Covered Payroll	\$2,006,692	\$2,748,796	\$2,640,576	\$2,601,571
Proportionate Share of the net pensions liability as a percentage of covered payroll	113.42%	68.08%	52.15%	52.28%
Plan fiduciary net position as a percentage of the total pension liability	73.31%	75.87%	78.40%	79.82%

* Fiscal year 2015 was the first year of implementation, therefore only four years are shown

Changes in assumptions. The accounting discount rate was changed from 7.65 percent to 7.15 percent.

Notes to Schedule

Fiscal Year End:	6/30/2018	6/30/2017	6/30/2016	6/30/2015
Valuation Date:	6/30/2016	6/30/2015	6/30/2014	6/30/2013

Methods and assumptions used to determine contribution rates:

Actuarial Cost Method	Entry Age	Entry Age	Entry Age	Entry Age
Amortization Method	Level Percent of Payroll	Level Percent of Payroll	Level Percent of Payroll	Level Percent of Payroll
Asset Valuation Method	Market Value	Market Value	Market Value	Market Value
Discount Rate	7.15%	7.65%	7.65%	7.50%
Projected Salary Increase	3.30% to 14.20% depending on Age, Service, and type of employment	3.30% to 14.20% depending on Age, Service, and type of employment	3.30% to 14.20% depending on Age, Service, and type of employment	3.30% to 14.20% depending on Age, Service, and type of employment
Inflation	2.75%	2.75%	2.75%	2.75%
Payroll Growth	3.00%	3.00%	3.00%	3.00%
Individual Salary Growth	A merit scale varying by duration of employment coupled with an assumed annual inflation growth of 2.75% and an annual production growth of 0.25%.	A merit scale varying by duration of employment coupled with an assumed annual inflation growth of 2.75% and an annual production growth of 0.25%.	A merit scale varying by duration of employment coupled with an assumed annual inflation growth of 2.75% and an annual production growth of 0.25%.	A merit scale varying by duration of employment coupled with an assumed annual inflation growth of 2.75% and an annual production growth of 0.25%.

Municipal Water District of Orange County
 Required Supplementary Information (Unaudited)
 For the Year Ended June 30, 2018

Cost Sharing Retirement Plan
Schedule of Contributions
Last Ten Years*

	<u>2018</u>	<u>2017</u>	<u>2016</u>	<u>2015</u>
Actuarially determined contributions	\$ 273,125	\$ 252,815	\$ 220,517	\$ 288,065
Contributions in relation to the actuarially determined contribution	<u>(273,125)</u>	<u>(252,815)</u>	<u>(220,517)</u>	<u>(288,065)</u>
Contribution deficiency (excess)	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>
Covered Payroll	\$3,295,260	\$3,022,872	\$2,748,796 ¹	\$2,640,576 ¹
Contributions as a percentage of covered-employee payroll	8.29%	8.36%	8.02%	10.91%

* Fiscal year 2015 was the first year of implementation, therefore only four years are shown

¹ Restated Covered Payroll