



**Victor Valley Wastewater
Reclamation Authority**

Taking the Waste Out of Wastewater

**Comprehensive Annual
Financial Report**

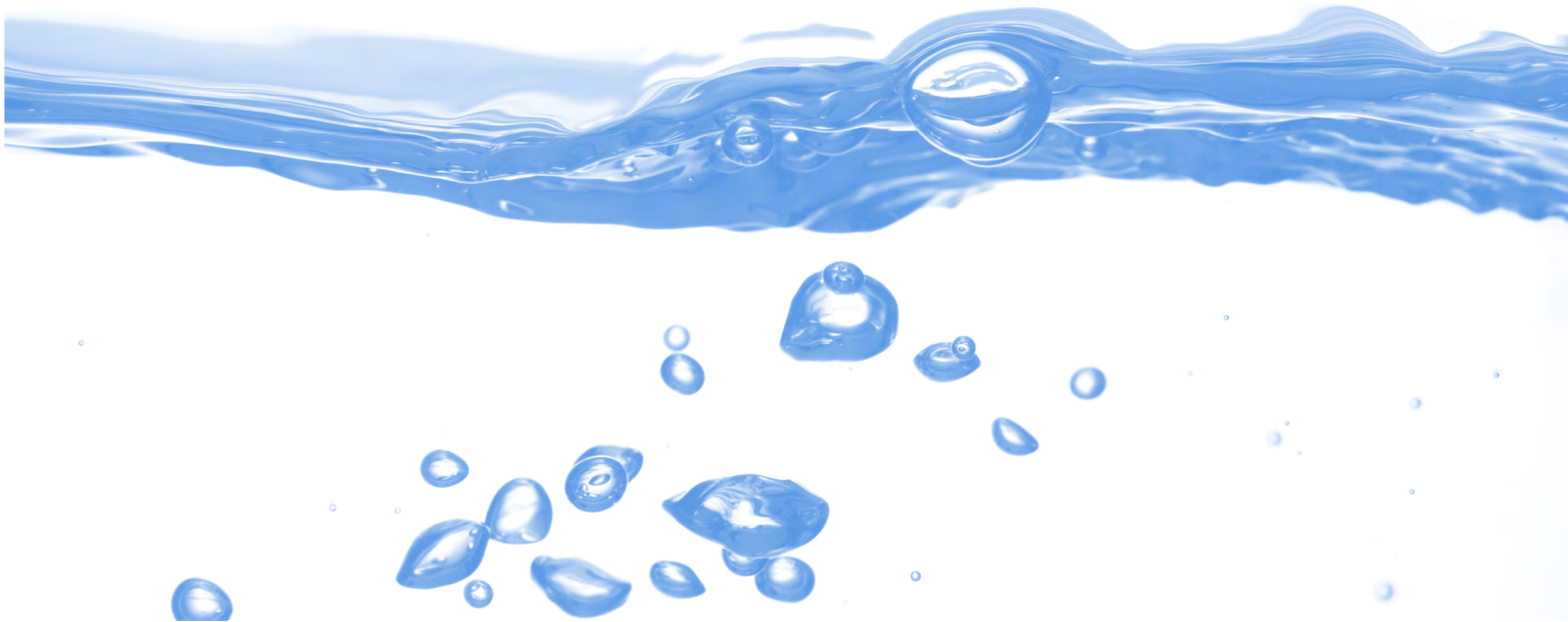
For the Fiscal Year Ended June 30, 2018

20111 Shay Rd., Victorville, CA 92394

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Prepared by:
The Victor Valley Wastewater Reclamation Authority
Finance Department



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Victor Valley Wastewater Reclamation Authority
Annual Financial Report
For the Fiscal Years Ended June 30, 2018

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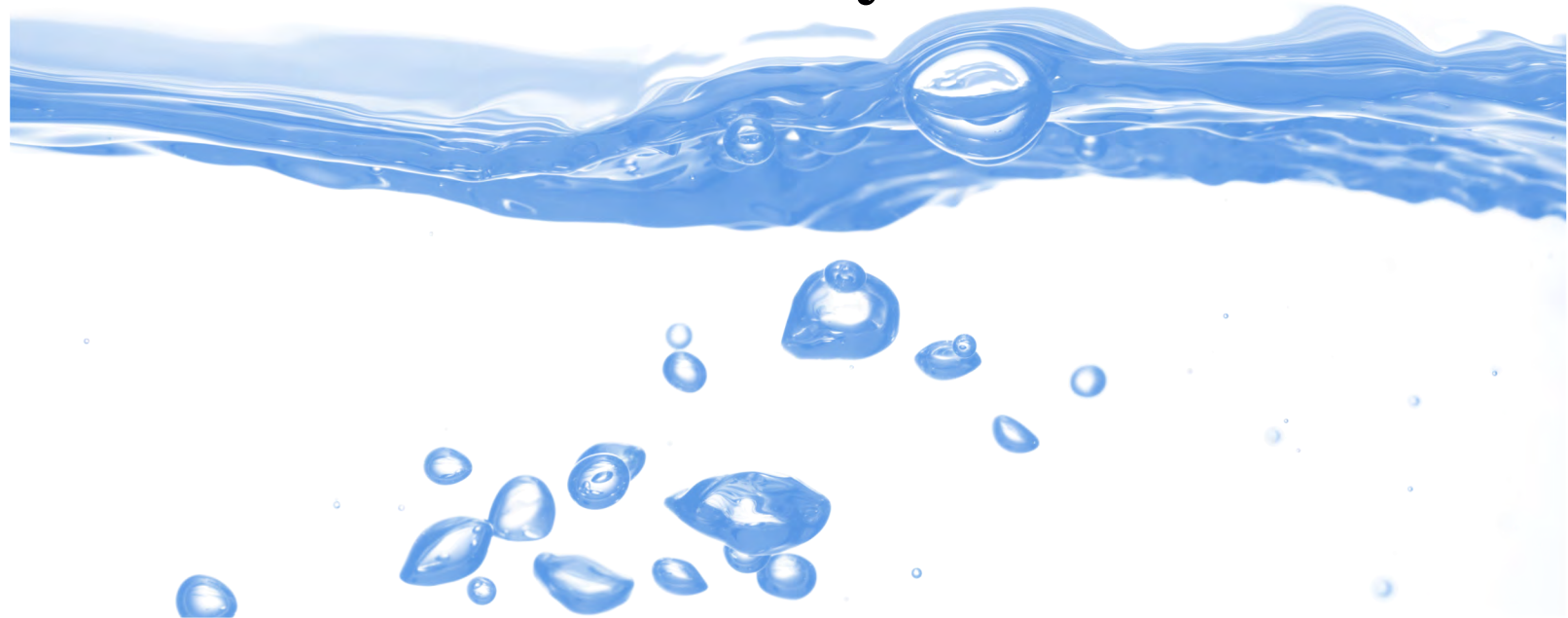
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For the Fiscal Years Ended June 30, 2018

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Introductory Section



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Victor Valley Wastewater Reclamation Authority
A Joint Powers Authority and Public Agency of the State of California

20111 Shay Rd. Victorville, CA 92394
Telephone: (760) 246-8638
Fax: (760) 246-2898

December 20, 2018

To the Board of Commissioners and Member Agencies,

It is our pleasure to present the Victor Valley Wastewater Reclamation Authority's (the Authority) Comprehensive Annual Financial Report for the year ended June 30, 2018.

The report was prepared by the Authority's Finance Department following guidelines recommended by the Governmental Accounting Standards Board and generally accepted accounting principles (GAAP). Responsibility for the accuracy of the data presented, completeness and fairness of the presentation, including disclosures, rests with the Authority. We believe the data, as presented, is accurate in all material respects and that it is presented in a manner to provide a fair representation of the financial position and results of operations of the Authority. We believe all disclosures are necessary to enhance your understanding of the financial condition of the Authority.

The Authority's financial statements were audited by Fedak & Brown LLP, a firm of licensed Certified Public Accountants. The goal of the independent audit is to provide reasonable assurance that the financial statements of the Authority for the year ended June 30, 2018 are free from material misstatements. The independent audit involved examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements; assessing the accounting principles used and significant estimates made by management; and evaluating the overall financial statement presentation. The auditors concluded, based on the audit, that there was a reasonable basis for rendering an unmodified opinion that the Authority's financial statements for the year ended June 30, 2018 are fairly presented in conformity with GAAP. The independent auditors' report is presented as the first component of the financial section on this report.

GAAP requires that management provide a narrative introduction, overview and analysis to accompany the basic financial statements in the form of Management's Discussion and Analysis (MD&A). The letter of transmittal is to complement the MD&A and should be read in conjunction with the MD&A. You will see the MD&A immediately following the independent auditor's report in the financial section.

Reporting Entity and Its Services

History

The year 2018 is the 40th anniversary for Victor Valley Wastewater Reclamation Authority. The Authority was originally formed by the Mojave Water Agency to help meet the requirements of the Federal Clean Water Act and provide wastewater treatment for the growing area. The original treatment plant, with supporting pipelines and infrastructure, began operating in 1981, providing tertiary level treatment for up to 4.5 million gallons per day.

The Authority is a Joint Power public agency of the State of California. Over the years, the Authority has completed treatment plant upgrades and several capacity increases, such as construction of two water reclamation plants, one in the Town of Apple Valley and the other in the City of Hesperia. The regional and sub-regional treatment plants will treat all flow to a tertiary level as recycled water for reuse. A majority of the highly recycled water is discharged into the Mojave River Basin and a smaller amount is currently used to irrigate landscaping at the treatment plant and the nearby Victorville power plant. In order to meet strong demands reflecting the service area population expansion, the agency has funded various capital projects that you can see in the AB1600 report posted on the VVWRA website.

Governance

The Joint Power is a quasi-governmental agency of the State of California. The Public Utilities Commission does not regulate this agency but rather a Board of four Commissioners governs the agency. The Board members are publicly elected for a four-year term from each Member Agency. A joint powers agreement binds the Authority's affairs between the Authority and member local government agencies consisting of the City of Victorville, City of Hesperia, Town of Apple Valley, and County of San Bernardino Special District including Service Areas No. 42 (Oro Grande) and No. 64 (Spring Valley Lake) for the purpose of construction, operation, and maintenance of sewer treatment facilities within these service areas. The General Manager is responsible for carrying out the policies and ordinances of the Board and for overseeing the day-to-day operations of the Authority.

Mission

The mission of the Victor Valley Wastewater Reclamation Authority is:

- To cost-effectively provide professional, competent wastewater treatment, reclamation, recycling, and reuse.
- To maintain the environment by providing clean effluent to the community.
- To provide service to our customers, and
- To keep the public informed.

Factors Affecting Financial Condition

The information presented in the financial statements is perhaps best understood when considered from the broader perspective of the specific environment within which the Authority operates. The major factors include (1) local economy and (2) flow diversion addressed by a member agency.

Local Economy

A significant portion of the local economy depends on affordable housing, which will entice commuters to the High Desert. Dwindling housing development has impacted new applications to connect to the sewer system that caused a drastic reduction in connection fees.

In order to invite businesses and commuters to the High Desert, various projects have been under way. Notable projects include the industrial base at the Southern California Logistics Airport (SCLA), the I-15 corridor project for the City of Hesperia and the undeveloped industrial zone, the largest in California, in the Town of Apple Valley. These projects will require wastewater treatment. Our hope is that reclaimed water provided by the Authority will play a significant role in their creation and success.

Flow Diversion

During the current fiscal year, the Authority has experienced a flow diversion that the City of Victorville announced on January 21, 2015. The flow diversion has resulted in a reduction of operating and capital income. In addition, growth in the region has not met the expectations of the adopted financial plan dated February 21, 2014.

Non-payment of Flow Processing and Connection Fees

The City of Hesperia (City) has withheld some of its payments to VVWRA for the flow processing services and connection fees. The City periodically pays the part of outstanding balances but there still is the outstanding balance on the audit report date.

Major Initiatives

The Authority has completed the construction of the sub-regional water reclamation plants during the year ended June 30, 2018. These sub-regionals will reduce the overall load on the collection system by creating recycled water, which is a valuable and increasingly important water resource in the service region. In addition, these sub-regionals represent the first step in leading the community, businesses and industries to sustain the regional growth. The following pictures show the two sub-regionals at construction completion.



Apple Valley Sub-Regional Water Reclamation Plant



Hesperia Sub-Regional Water Reclamation Plant

Relevant Financial Policies

The Authority has formally adopted the following financial policies:

Reserve Policy

The reserve policy requires the Authority have a minimum level of operating cash reserves throughout the year. That minimum level is set at a certain percentage of the approved fiscal year budget for operations and maintenance expenses. These reserves have been established to meet daily operation needs. The reserve policy guidelines enable restricted funds other than the operating fund to be set aside to address future infrastructure needs, replacement of aging facilities and to cope with unexpected emergency occurrences. These reserves are critical to the Authority's financial strength.

Investment Policy

The Investment Policy establishes guidelines for the investment of available funds. The Investment Policy incorporates the Prudent Investor Standards. The primary objectives of the Authority's investment activities are, in a priority order: 1) safety, 2) liquidity, and 3) yield. The Authority's funds are invested in a variety of investments, in accordance with California government code as described in Note (2) of the Notes to the Financial Statements. The Authority minimizes interest rate risk by investing a greater portion of its funds in short term investments and minimizes credit risk by investing a majority of its funds in the highest rated investments or in diversified investment pools.

Accounting

The Finance Department is responsible for providing financial services for the Authority, including budgeting, financial accounting, reporting, payroll, accounts receivable and payable, custody and investment of funds, billing and collection of wastewater charges and permits. The Authority accounts for its activities as an enterprise fund and prepares its financial statements on the accrual basis of accounting, under which revenues are recognized when earned and expenses are recorded when incurred. It is the intent of the Board of Commissioners to manage the Authority's operations as a business, matching revenues against the costs of providing the services.

Internal Controls

The Authority operates within a system of internal accounting controls designed and continually reviewed by management to provide reasonable assurance that assets are adequately safeguarded and transactions are recorded in conformity with the Authority policies and procedures. The management implements and maintains the controls for which its value of the benefits exceeds the costs. Recent audits have not noted any weaknesses in internal controls. See pages 56 and 57 for the auditor's report.

Budgetary Controls

Although the Authority is not legally required to adopt and adhere to a budget, the Board of Commissioners has chosen to approve an annual budget as a management tool. The budget is developed with input from the various departments of the Authority and adopted prior to the start of each fiscal year.

Awards and Acknowledgements

The Government Finance Officers Association of the United States and Canada (GFOA) awarded a Certificate of Achievement for Excellence in Financial Reporting to Victor Valley Wastewater Reclamation Authority for its comprehensive annual financial report (CAFR) for the year ended June 30, 2017. The Authority has won this prestigious award consecutively since June 30, 2010. In order to be awarded a Certificate of Achievement, a governmental agency must publish an easily readable and efficiently organized CAFR. This report must satisfy both accounting principles generally accepted in the United States of America and applicable legal requirements. The 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 for the year ended June 30, 2018.

Preparation of this report was accomplished by the combined efforts of the Finance Department staff. We appreciate the dedicated efforts and professionalism that our staff members bring to the Authority and thank the independent accounting firm of Fedak & Brown LLP for their effort to prepare the report. We also thank the members of the Board of Commissioners for their continued interest and support in the planning and implementation of the financial management.

Respectfully submitted,

A handwritten signature in blue ink, appearing to read "Logan Olds".

Logan Olds
General Manager

**Victor Valley Wastewater Reclamation Authority
Government Finance Officers Association Certificate of Achievement for Excellence in Financial
Reporting
For the Fiscal Years Ended June 30, 2018**



Government Finance Officers Association

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

Presented to

**Victor Valley Wastewater
Reclamation Authority, California**

For its Comprehensive Annual
Financial Report
for the Fiscal Year Ended

June 30, 2017

Christopher P. Morrill

Executive Director/CEO

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Victor Valley Wastewater Reclamation Authority

Board of Commissioners and Management

As of June 30, 2018

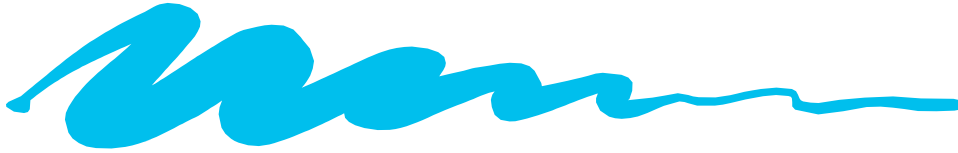
Board of Commissioners 2018

<u>Name</u>	<u>Title</u>	<u>Elected/ Appointed</u>	<u>Member Agency</u>
Larry Bird	Chair	Appointed	City of Hesperia
Jeffrey Rigney	Vice-Chair	Appointed	County of San Bernardino, Special Districts
Scott Nassif	Secretary	Appointed	Town of Apple Valley
James Kennedy	Treasurer	Appointed	City of Victorville

Management

Logan Olds, General Manager

20111 Shay Road
Victorville, California 92394
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**The Mission of the
Victor Valley Wastewater Reclamation Authority
Is...**

To cost-effectively provide professional, competent wastewater
treatment, reclamation, recycling, and reuse,
To maintain the environment by providing clean effluent to the
community,
To provide a service to our customers, and
To keep the public informed.

By...

Selecting quality employees,
Effectively communicating at all levels,
Providing effective training,
Encouraging participation in water and wastewater organizations,
Working together as a 'TEAM', and
Providing the budget for projects and personnel.

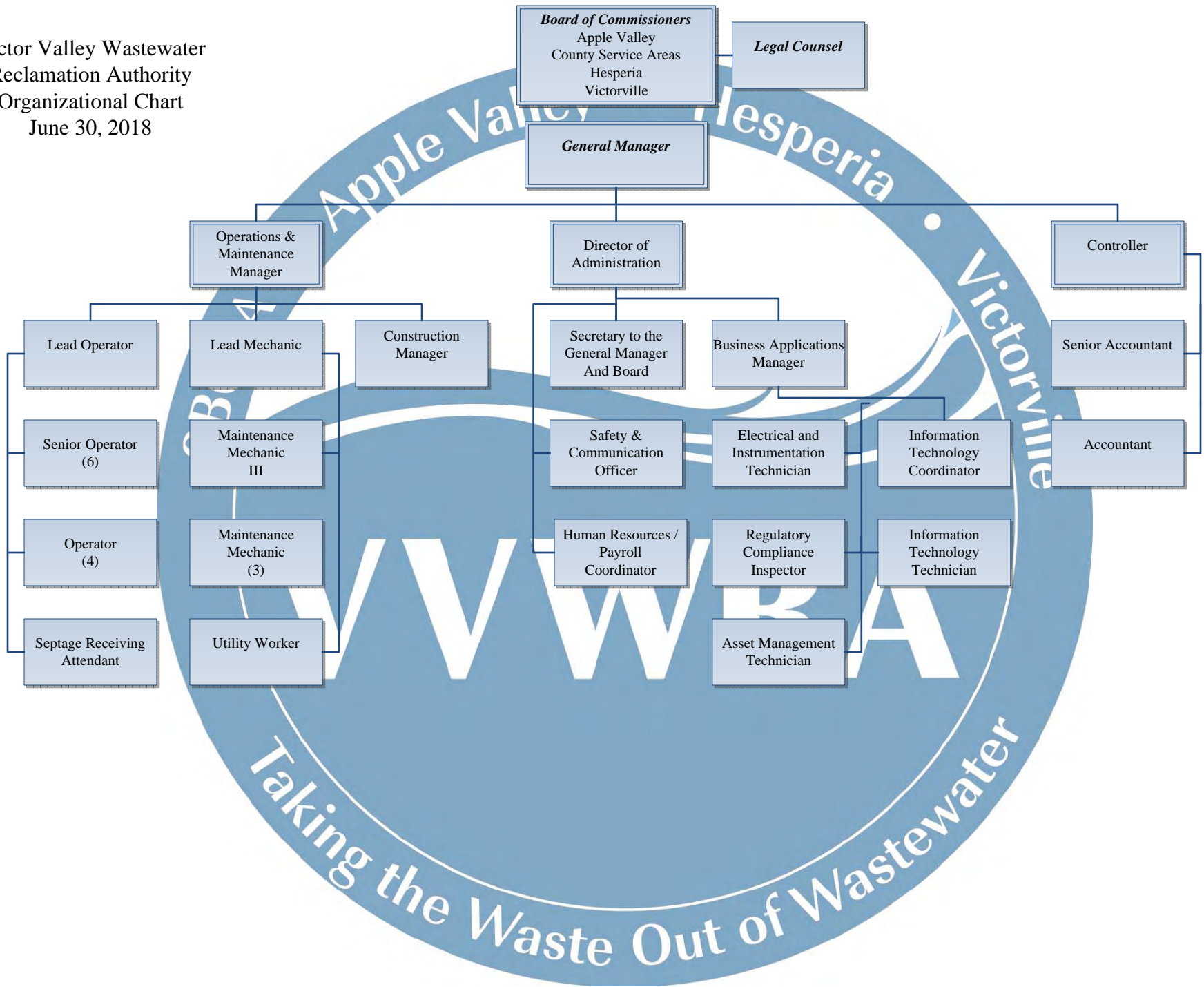
Motivated by...

Creating and maintaining a positive work environment,
Recognizing individual and group efforts, and
Providing competitive pay and benefits.

Measured by...

Meeting budgetary goals,
Meeting the standards for regulatory compliance,
The successful completion of projects,
Employee retention, and
A cooperative effort during emergencies.

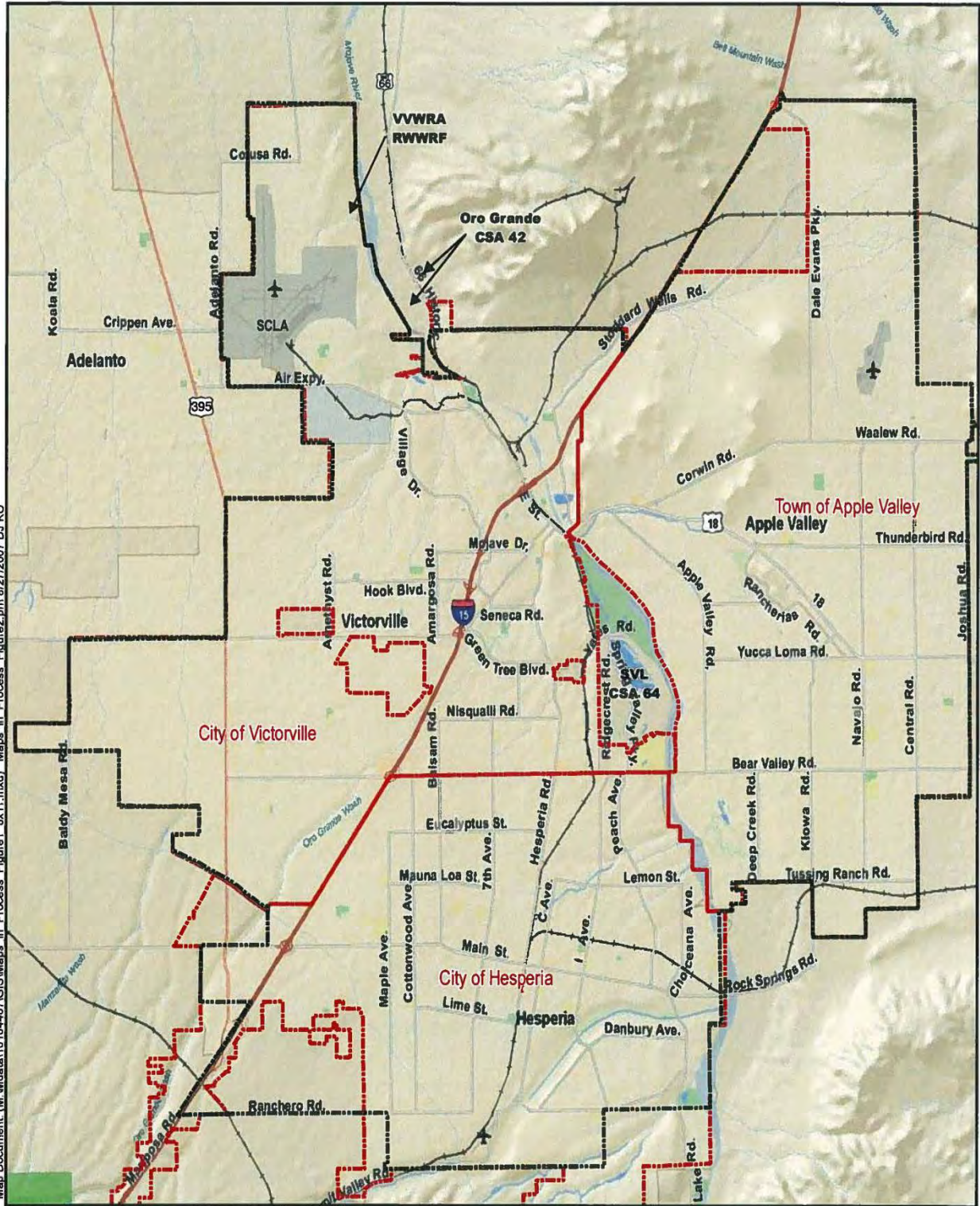
Victor Valley Wastewater
 Reclamation Authority
 Organizational Chart
 June 30, 2018



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Victor Valley Wastewater Reclamation Authority

Service Area Map



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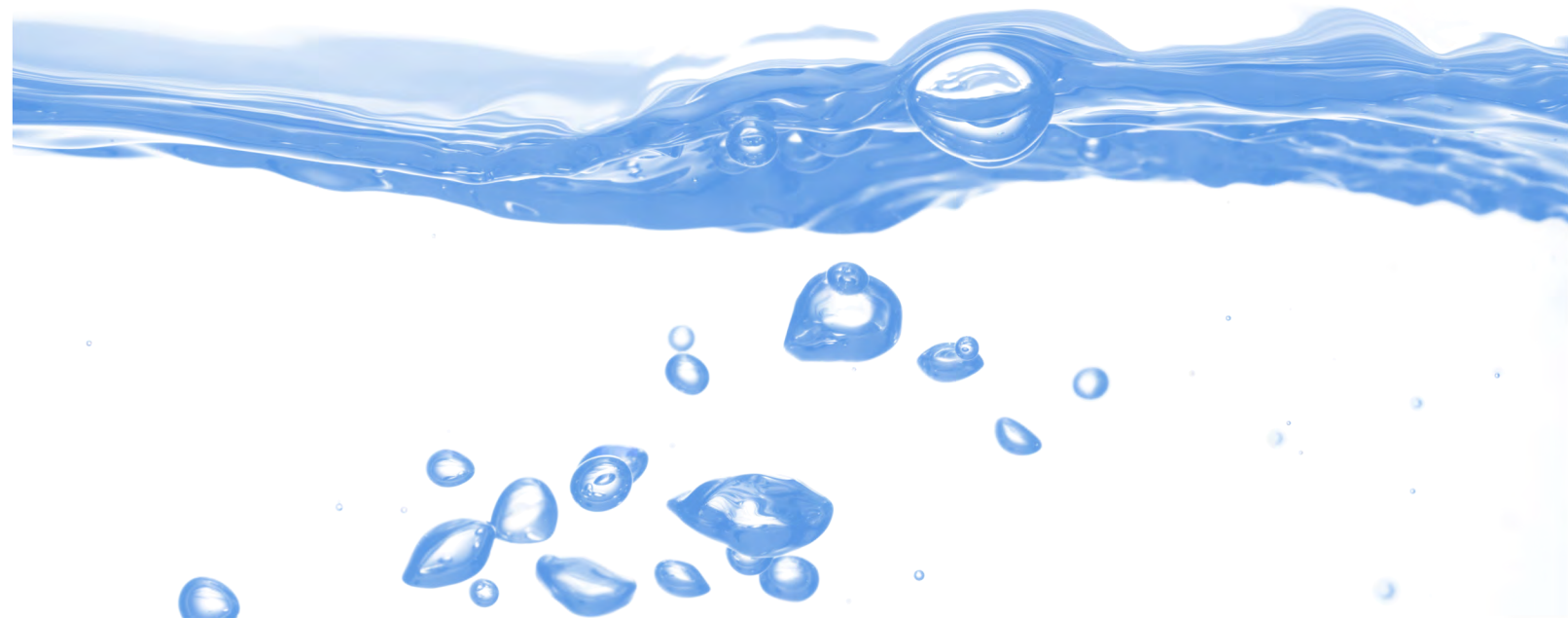


August 21, 2007

VVWRA Boundary
 City Boundaries

Figure 1
VVWRA Service Area
 Source: Eagle Aerial, San Bernardino County Parcels
 City of Hesperia, Town of Apple Valley
 City of Victorville

Financial Section



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Fedak & Brown LLP

Certified Public Accountants

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Cypress, California 90630
(657) 214-2307
FAX (714) 527-9154

Riverside Office:
1945 Chicago Avenue, Suite C-1
Riverside, California 92507
(951) 783-9149

Independent Auditor's Report

Board of Commissioners
Victor Valley Wastewater Reclamation Authority
Hesperia, California

Report on the Financial Statements

We have audited the accompanying financial statements of the Victor Valley Wastewater Reclamation Authority (Authority), which comprises the statement of net position as of June 30, 2018, and the related statement of revenues, expenses and changes in net position, and cash flows for the year then ended, and the related notes to the financial statements, which collectively comprise the Authority's basic 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 controls 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 basic 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; and the State Controller's Minimum Audit Requirements for California Special Districts. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of 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.

Opinion

In our opinion, the financial statements referred to above present fairly, in all material respects, the financial position of the Victor Valley Wastewater Reclamation Authority 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.

Independent Auditor's Report, continued

Required Supplementary Information

Accounting principles generally accepted in the United States of America require that management's discussion and analysis and the required supplementary information 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 inquires of management about the methods of preparing the information and comparing the information for consistency with management's responses to our inquires, 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.

Emphasis of Matter

As part of our audit of the June 30, 2018, financial statements, we audited the adjustments described in note 14. An adjustment was recognized for the Authority's total other post-employment benefits liability; and has reclassified its employer pension contributions from expense to deferred outflows of resources and recorded a prior period adjustment to restate net position as of June 30, 2017.

As discussed in Note 1.C to the financial statements, in June 30, 2018, the Authority adopted new accounting guidance *Governmental Accounting Standards Board Statement Nos. 75*. Our opinion is not modified with respect to this matter.

Other Matters

Our audit was conducted for the purpose of forming an opinion on the financial statements that collectively comprise the Authority's basic financial statements as a whole. The introductory section and statistical section are presented for purposes of additional analysis and are not a required part of the basic financial statements. The supplementary information is presented for purposes of additional analysis and is not a required part of the basic financial statements. The supplementary information is the responsibility of management and was derived from and relate directly to the underlying accounting and other records used to prepare the basic financial statements. The information has been subjected to the auditing procedures applied in the audit of the basic financial statements and certain additional procedures, including comparing and reconciling such information directly to the underlying accounting and other records used to prepare the basic financial statements or to the basic financial statements themselves, and other additional procedures in accordance with auditing standards generally accepted in the United States of America. In our opinion, the information is fairly stated in all material respects in relation to the basic 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.

Independent Auditor's Report, continued

Other Reporting Required by Government Auditing Standards

In accordance with *Government Auditing Standards*, we have also issued a report dated December 20, 2018, on our consideration of the Authority's internal control over financial reporting and our tests of its compliance with certain provisions of laws, regulations, contracts, grant agreements and other matters. The purpose of that report is to describe the scope of our testing of internal control over financial reporting and compliance and the results of that testing, and not to provide an opinion on the internal control over financial reporting or on compliance. That report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering the Authority's internal control over financial reporting and compliance.

A handwritten signature in black ink that reads "Fedak & Brown LLP". The signature is written in a cursive, slightly slanted style.

Fedak & Brown LLP
Cypress, California
December 20, 2018

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Victor Valley Wastewater Reclamation Authority
Management's Discussion and Analysis
For the Fiscal Year Ended June 30, 2018

As management of Victor Valley Wastewater Reclamation Authority (Authority), we offer readers of the Authority's financial statements this narrative overview and analysis of the financial activities of the Authority for the fiscal year ended June 30, 2018. We encourage readers to consider the information presented here in conjunction with the preceding Independent Auditor's Report, the accompanying basic financial statements, and notes to the financial statements.

Financial Highlights

- In fiscal year 2018, the Authority's net position decreased 2.4% or \$3,116,490 to \$127,488,406; primarily due to a decrease of \$7,528,633 from ongoing operations, an increase \$5,250,106 from capital contributions, which were offset by the effect of an \$837,963 restatement to net position related to the implementation of GASB 75. (See note 14 for further information).
- In fiscal year 2018, the Authority's operating revenues increased 7.6% or \$1,040,906 to \$14,696,537.
- In fiscal year 2018, the Authority's operating expenses increased 2.1%, or \$224,745 to \$11,129,093.

Required Financial Statements

This annual report consists of a series of financial statements. The Statement of Net Position, Statements of Revenues, Expenses and Changes in Net Position and Statement of Cash Flows provide information about the activities and performance of the Authority using accounting methods similar to those used by private sector companies.

The Statement of Net Position includes all of the Authority's investments in resources (assets) and deferred outflows of resources and the obligations to creditors (liabilities) and deferred inflows of resources. It also provides the basis for computing a rate of return, evaluating the capital structure of the Authority and assessing the liquidity and financial flexibility of the Authority. 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 success of the Authority's operations over the past year and can be used to determine if the Authority has successfully recovered all of its costs through its rates and other charges. This statement can also be used to evaluate profitability and credit worthiness. The final required financial statement is the Statement of Cash Flows, which provides information about the Authority's cash receipts and cash payments during the reporting period.

The Statement of Cash Flows reports cash receipts, cash payments, and net changes in cash resulting from operations, investing, non-capital financing, and capital and related financing activities and provides answers to such questions as where did cash come from, what was cash used for, and what was the change in cash balance during the reporting period.

Financial Analysis of the Authority

One of the most important questions asked about the Authority's finances is, "Is the Authority better off or worse off as a result of this year's activities?" The Statement of Net Position and the Statement of Revenues, Expenses and Changes in Net Position report information about the Authority in a way that helps answer this question.

These statements include all assets, deferred outflows of resources, and liabilities, deferred inflows of resources, using the *accrual basis of accounting*, which is similar to the accounting method used by most private sector companies. All of the current year's revenues and expenses are taken into account regardless of when the cash is received or paid.

Victor Valley Wastewater Reclamation Authority
Management's Discussion and Analysis
For the Fiscal Year Ended June 30, 2018

Financial Analysis of the Authority, continued

These two statements report the Authority's *net position* and changes in them. One can think of the Authority's net position – the difference between assets and deferred outflows of resources less liabilities and deferred inflows of resources – as one way to measure the Authority's financial health, or *financial position*. Over time, *increases or decreases* in the Authority's net position are one indicator of whether its *financial health* is improving or deteriorating. However, one will need to consider other non-financial factors such as changes in economic conditions, population growth, and new or changed government legislation or accounting standards, as well as changes in Federal and State water quality standards.

Notes to the Basic Financial Statements

The notes provide additional information that is essential to a full understanding of the data provided in the basic financial statements.

Statements of Net Position

Condensed Statements of Net Position

	<u>2018</u>	<u>2017</u>	<u>Change</u>
Assets:			
Current assets	\$ 19,845,500	24,215,150	(4,369,650)
Non-current assets	207,756	142,327	65,429
Capital asset, net	<u>204,028,354</u>	<u>204,293,272</u>	<u>(264,918)</u>
Total assets	<u>224,081,610</u>	<u>228,650,749</u>	<u>(4,569,139)</u>
Deferred outflows of resources:	<u>1,742,472</u>	<u>1,743,035</u>	<u>(563)</u>
Liabilities:			
Current liabilities	5,863,899	13,308,048	(7,444,149)
Non-current liabilities	<u>92,382,340</u>	<u>86,315,817</u>	<u>6,066,523</u>
Total liabilities	<u>98,246,239</u>	<u>99,623,865</u>	<u>(1,377,626)</u>
Deferred inflows of resources:	<u>89,437</u>	<u>165,023</u>	<u>(75,586)</u>
Net position:			
Net investment in capital assets	116,272,187	122,731,832	(6,459,645)
Restricted	5,285,091	9,004,801	(3,719,710)
Unrestricted	<u>5,931,128</u>	<u>(1,131,737)</u>	<u>7,062,865</u>
Total net position	<u>\$ 127,488,406</u>	<u>130,604,896</u>	<u>(3,116,490)</u>

As noted earlier, net position may serve over time as a useful indicator of an organization's financial position. The assets and deferred outflows of the Authority exceeded liabilities and deferred inflows by \$127,488,406 as of June 30, 2018.

By far the largest portion of the Authority's net position (91% as of June 30, 2018) reflects the Authority's investment in capital assets (net of accumulated depreciation) less any related debt used to acquire those assets that is still outstanding. The Authority uses these capital assets to provide services to customers within the Authority's service areas.

At the end of fiscal year 2018, the Authority showed a balance in its unrestricted net position of \$5,931,128. See note 13 for further discussion.

Victor Valley Wastewater Reclamation Authority
Management's Discussion and Analysis
For the Fiscal Year Ended June 30, 2018

Statements of Revenues, Expenses and Changes in Net Position

Condensed Statements of Revenues, Expenses and Changes in Net Position

	<u>2018</u>	<u>2017</u>	<u>Change</u>
Revenue:			
Operating revenues	\$ 14,696,537	13,655,631	1,040,906
Non-operating revenues	67,532	78,595	(11,063)
Total revenue	<u>14,764,069</u>	<u>13,734,226</u>	<u>1,029,843</u>
Expense:			
Operating expenses	11,129,093	10,904,348	224,745
Depreciation	9,226,174	7,900,370	1,325,804
Non-operating expenses	1,937,435	1,555,468	381,967
Total expense	<u>22,292,702</u>	<u>20,360,186</u>	<u>1,932,516</u>
Net loss before capital contributions	<u>(7,528,633)</u>	<u>(6,625,960)</u>	<u>(902,673)</u>
Capital contributions:			
Capital grants	2,367,867	6,767,557	(4,399,690)
Connection fees	2,882,239	2,951,667	(69,428)
Total capital contributions	<u>5,250,106</u>	<u>9,719,224</u>	<u>(4,469,118)</u>
Changes in net position	<u>(2,278,527)</u>	<u>3,093,264</u>	<u>(5,371,791)</u>
Net position, beginning of year	<u>130,604,896</u>	<u>127,511,632</u>	<u>3,093,264</u>
Prior period adjustment	<u>(837,963)</u>	<u>-</u>	<u>(837,963)</u>
Net position, beginning of year – as restated	<u>129,766,933</u>	<u>127,511,632</u>	<u>2,255,301</u>
Net position, end of year	<u>\$ 127,488,406</u>	<u>130,604,896</u>	<u>(3,116,490)</u>

The statement of revenues, expenses and changes in net position shows how the Authority's net position changed during the fiscal year. The Authority's net position decreased 2.4% or \$3,116,490 to \$127,488,406 in fiscal year 2018, due to a decrease of \$7,528,633 from ongoing operations, an increase \$5,250,106 from capital contributions, which was offset by the effect of an \$837,963 restatement to net position related to the implementation of GASB 75. (See note 14 for further information).

The Authority's revenues (before capital contributions) increased 7.5% or \$1,029,843, due primarily to an increase of \$1,040,906 in operating revenues, offset by a decrease of \$11,063 in non-operating revenue.

The Authority's total expenses increased 9.5% or \$1,932,516, due primarily to increases of \$1,325,804 in depreciation expense, \$224,745 in operating expenses, \$1,226,313 in interest expense, and \$381,967 in non-operating expenses.

Victor Valley Wastewater Reclamation Authority
Management's Discussion and Analysis
For the Fiscal Year Ended June 30, 2018

Revenues

	<u>2018</u>	<u>2017</u>	<u>Change</u>
Operating revenues:			
Wastewater service charges	\$ 13,711,083	12,719,827	991,256
Septage receiving facility fees	621,154	649,362	(28,208)
ADM-FOG tipping fees	311,600	234,160	77,440
Pretreatment permit fees	<u>52,700</u>	<u>52,282</u>	<u>418</u>
Total operating revenues	<u>14,696,537</u>	<u>13,655,631</u>	<u>1,040,906</u>
Non-operating revenue:			
Investment earnings	65,808	37,886	27,922
Other revenues	<u>1,724</u>	<u>40,709</u>	<u>(38,985)</u>
Total non-operating revenue	<u>67,532</u>	<u>78,595</u>	<u>(11,063)</u>
Capital contributions:			
Capital grants	2,367,867	6,767,557	(4,399,690)
Connection fees	<u>2,882,239</u>	<u>2,951,667</u>	<u>(69,428)</u>
Total capital contributions	<u>5,250,106</u>	<u>9,719,224</u>	<u>(4,469,118)</u>
Total revenues	<u>\$ 20,014,175</u>	<u>23,453,450</u>	<u>(3,439,275)</u>

A closer examination of the Authority's revenues reveals that:

The Authority's revenues (including capital contributions) decreased by 14.7% or \$3,439,275 to \$20,014,175. The Authority's operating revenues increased 7.6% or \$1,040,906 to \$14,696,537, due to increases of \$991,256 in wastewater service charges, \$77,440 in ADM-FOG tipping fees, and \$418 in pretreatment permit fees, which were offset by a decrease of \$28,208 in septage receiving facility fees.

The Authority's non-operating revenues decreased 14.1%, or \$11,063 to \$67,532, due to a decrease of \$38,985 in other revenues, offset by an increase of \$27,922 in investment earnings.

The Authority's capital contributions decreased 46.0% or \$4,469,118 to \$5,250,106, due to a decrease of \$4,399,690 in capital grants and \$69,428 in connection fees.

Expenses

	<u>2018</u>	<u>2017</u>	<u>Change</u>
Operating expenses:			
Salaries and benefits	\$ 4,813,879	4,435,790	378,089
Maintenance	1,654,791	1,936,625	(281,834)
Operations	2,877,169	2,444,093	433,076
General and administration	1,783,254	2,087,840	(304,586)
Depreciation	<u>9,226,174</u>	<u>7,900,370</u>	<u>1,325,804</u>
Total operating expense	<u>20,355,267</u>	<u>18,804,718</u>	<u>1,550,549</u>
Non-operating expenses:			
Interest expense	1,766,631	540,318	1,226,313
Loss on disposal of temp. pipeline	-	784,245	(784,245)
Capital contribution to local government	170,804	-	170,804
Flood damage expense	<u>-</u>	<u>230,905</u>	<u>(230,905)</u>
Total non-operating expenses	<u>1,937,435</u>	<u>1,555,468</u>	<u>381,967</u>
Total expenses	<u>\$ 22,292,702</u>	<u>20,360,186</u>	<u>1,932,516</u>

Victor Valley Wastewater Reclamation Authority
Management's Discussion and Analysis
For the Fiscal Year Ended June 30, 2018

Expenses, continued

A closer examination of the Authority's expenses reveals that:

The Authority's total expenses increased by 9.5% or \$1,932,516 to \$22,292,702. The Authority's operating expenses increased 8.2%, or \$1,550,549, primarily due to increases of \$1,325,804 in depreciation expense, \$433,076 in operations expenses, \$378,089 in salaries and benefits expenses, which were offset by decreases of \$281,834 in maintenance expense and \$304,586 in general and administrative expenses.

The Authority's non-operating expenses increased 24.6%, or \$381,967 to \$1,937,435, primarily due to increases of \$1,226,313 in interest expense, due to the finalization of capital project related loans which were completed and began repayment, and \$170,804 in capital contribution to local government, which were offset by decreases of \$784,245 in loss upon disposal of the temporary pipeline upon completion of the permanent pipeline and \$230,905 in flood damage expense.

Capital Asset Administration

Changes in capital asset amounts for 2018 were as follows:

	<u>Balance 2017</u>	<u>Additions</u>	<u>Disposals/ Transfers</u>	<u>Balance 2018</u>
Capital assets:				
Non-depreciable assets	\$ 83,687,800	8,217,002	(88,823,701)	3,081,101
Depreciable assets	207,563,761	89,567,955	(69,548)	297,062,168
Accumulated depreciation	<u>(86,958,289)</u>	<u>(9,226,174)</u>	<u>69,548</u>	<u>(96,114,915)</u>
Total capital assets	<u>\$ 204,293,272</u>	<u>88,558,783</u>	<u>(88,823,701)</u>	<u>204,028,354</u>

At the end of fiscal year 2018, the Authority's investment in capital assets amounted to \$204,028,354 (net of accumulated depreciation). This investment in capital assets includes land improvements, sewer collection and pipeline system, buildings and structures, equipment, vehicles and construction in progress, etc.

Construction in progress increased by \$8,217,002, due to the ongoing project construction of the sub-regional wastewater reclamation plants in Hesperia and Apple Valley, the Micro-grid battery storage project, the Nanticoke gravity interceptor project, the Desert Knolls Wash project and the Total Ignition SCADA project.

Major capital assets additions during the year, sourcing from construction in progress, included \$83,932,724 to plant and building and \$4,890,977 to interceptor pipelines. Major additions outside of construction-in progress were \$735,227 to plant and building for the purchase of a tractor and generator terminator cabinet.

See note 6 for more details related to capital assets.

Debt Administration

Changes in long-term debt amounts for 2018 were as follows:

	<u>Balance 2017</u>	<u>Additions</u>	<u>Principal Payments</u>	<u>Balance 2018</u>
Long-term debt:				
Lease payable	\$ -	532,943	(103,791)	429,152
Loans payable	<u>81,561,440</u>	<u>8,292,040</u>	<u>(2,097,313)</u>	<u>87,756,167</u>
Total long-term debt	<u>\$ 81,561,440</u>	<u>8,824,983</u>	<u>(2,201,104)</u>	<u>88,185,319</u>

Victor Valley Wastewater Reclamation Authority
Management's Discussion and Analysis
For the Fiscal Year Ended June 30, 2018

Debt Administration, continued

The Authority has eight State Revolving Fund loans from the State Water Resources Control Board, one Southern California Edison loan, and one lease payable. The loans are for the purpose of financing construction related costs for the 9.5 MGD Improvement Project, the 11 MGD Expansion Project, the North Apple Valley Interceptor, the Phase III-A Facility, the Subregional Wastewater Reclamation Plants in Hesperia, and Apple Valley, the Upper Narrows Pipeline Replacement Project, the Nanticoke Gravity Interceptor Project. The Authority has one lease which is for the financing of a Brown Bear tractor for use in day-to-day operations. These low interest loans and lease are payable in 6 to 30 annual payments maturing in fiscal years 2020 through 2047. Additional information regarding long-term debt is located in notes 9 & 10 of the Notes to Financial Statements.

Conditions Affecting Current Financial Position

The Authority is continuing to work closely with the four Member Agencies to complete a long-term financial plan which includes the Capital Improvement Plan and the associated funding. The financial plan includes debt financing as an element to upgrade the facilities that will benefit the residents of the communities served, thus allowing the Authority to continue its mission to maintain the environment and provide professional, competent wastewater treatment, reclamation, recycling, and reuse.

During the prior fiscal year, the Authority experienced a flow diversion that the City of Victorville announced on January 21, 2015. The flow diversion has resulted in a reduction of operating and capital income. In addition, growth in the region has not met the expectations of the adopted financial plan dated February 20, 2014, negatively affecting connection fees and capital income.

At June 30, 2018, Management is unaware of any other conditions, beyond the aforementioned, which could have a significant impact on the Authority's current financial position, net position or operating results based on past, present and future events.

Requests for Information

This financial report is designed to provide the Authority's funding sources, customers, stakeholders and other interested parties with an overview of the Authority's financial operations and financial condition. Questions concerning any of the information provided in the report or requests for additional information should be addressed to the Authority's Finance Department at 20111 Shay Road, Victorville, California 92394.

Basic Financial Statements

Victor Valley Wastewater Reclamation Authority
Statement of Net Position
For the Fiscal Year Ended June 30, 2018

	2018
Current assets:	
Cash and equivalents (note 2)	\$ 4,082,087
Restricted – cash and equivalents (note 2)	5,285,091
Interest receivable	7,311
Accounts receivable, net	186,800
Accounts receivable – due from member agencies (note 3)	5,259,325
Accounts receivable – other (note 4)	9,131
Accounts receivable – loan (note 10)	82,946
Accounts receivable – grants	4,718,438
Notes receivable, net (note 5)	9,562
Materials and supplies inventory	83,104
Prepaid expenses and other deposits	121,705
Total current assets	19,845,500
Non-current assets:	
Notes receivable, net (note 5)	207,756
Capital assets not being depreciated (note 6)	3,081,101
Capital assets being depreciated, net (note 6)	200,947,253
Total non-current assets	204,236,110
Total assets	224,081,610
Deferred outflows of resources:	
Pension related outflows (note 12)	1,742,472
Total deferred outflows of resources:	\$ 1,742,472

Continued on next page

See accompanying notes to the basic financial statements

Victor Valley Wastewater Reclamation Authority
Statement of Net Position, continued
For the Fiscal Year Ended June 30, 2018

	2018
Current liabilities:	
Accounts payable and accrued expenses	\$ 1,279,448
Accrued wages and related payables	160,234
Accrued interest on long-term debt	275,043
Long-term liabilities – due within one year:	
Compensated absences (note 7)	72,005
Other payables (note 8)	6,852
Lease payable (note 9)	89,930
Loans payable (note 10)	3,980,387
Total current liabilities	5,863,899
Non-current liabilities:	
Long-term liabilities – due in more than one year:	
Compensated absences (note 7)	216,014
Other payables (note 8)	15,382
Lease payable (note 9)	339,222
Loans payable (note 10)	83,775,780
Total other post-employment benefits liability (note 11)	2,285,368
Net pension liability (note 12)	5,750,574
Total non-current liabilities:	92,382,340
Total liabilities	98,246,239
Deferred inflows of resources:	
Pension related inflows (note 12)	89,437
Total deferred inflows of resources:	89,437
Net position: (note 13)	
Net investment in capital assets	116,272,187
Restricted for debt service	5,285,091
Unrestricted	5,931,128
Total net position	\$ 127,488,406

See accompanying notes to the basic financial statements

Victor Valley Wastewater Reclamation Authority
Statement of Revenues, Expenses and Changes in Net Position
For the Fiscal Year Ended June 30, 2018

	2018
Operating revenues:	
Wastewater service charges	\$ 13,711,083
Septage receiving facility fees	621,154
ADM-FOG tipping fees	311,600
Pretreatment permit fees	52,700
Total operating revenues	14,696,537
Operating expenses:	
Salaries and benefits	4,813,879
Maintenance	1,654,791
Operations	2,877,169
General and administration	1,783,254
Total operating expense	11,129,093
Operating income before depreciation expense	3,567,444
Depreciation	(9,226,174)
Operating loss	(5,658,730)
Non-operating revenue (expense):	
Investment earnings	65,808
Interest expense	(1,766,631)
Other, net	1,724
Capital contribution to local government	(170,804)
Total non-operating expense, net	(1,869,903)
Net loss before capital contributions	(7,528,633)
Capital contributions:	
Capital grants – Title 16	16,994
Capital grants – State of California	916,729
Capital grants – Water Recycling Grant	442,399
Capital grants – Other agency	991,745
Connection fees	2,882,239
Total contributed capital	5,250,106
Change in net position	(2,278,527)
Net position, beginning of year – as restated (note 14)	129,766,933
Net position, end of year	\$ 127,488,406

See accompanying notes to the basic financial statements

Victor Valley Wastewater Reclamation Authority
Statement of Cash Flows
For the Fiscal Year Ended June 30, 2018

	<u>2018</u>
Cash flows from operating activities:	
Cash receipts from customers	\$ 14,688,448
Cash paid to employees for salaries and wages	(4,796,725)
Cash paid to vendors and suppliers for materials and services	<u>(17,612,059)</u>
Net cash used in operating activities	<u>(7,720,336)</u>
Cash flows from capital and related financing activities:	
Acquisition and construction of capital assets	(9,806,930)
Proceeds from connection fees	2,882,239
Proceeds from grant funding	2,516,556
Proceeds from capital lease	532,943
Proceeds from loans	11,364,606
Principal paid for capital lease	(103,791)
Principal paid for long-term debt	(2,097,313)
Interest paid for long-term debt	<u>(1,566,970)</u>
Net cash provided by capital and related financing activities	<u>3,721,340</u>
Cash flows from investing activities:	
Investment earnings	<u>73,319</u>
Net cash provided by investing activities	<u>73,319</u>
Net decrease in cash and cash equivalents	<u>(3,925,677)</u>
Cash and cash equivalents, beginning of year	<u>13,292,855</u>
Cash and cash equivalents, end of year	<u>\$ 9,367,178</u>
Reconciliation of cash and cash equivalents to the statements of net position:	
Cash and cash equivalents	\$ 4,082,087
Restricted cash and cash equivalents	<u>5,285,091</u>
Total cash and cash equivalents	<u>\$ 9,367,178</u>

Continued on next page

See accompanying notes to the basic financial statements

Victor Valley Wastewater Reclamation Authority
Statement of Cash Flows, continued
For the Fiscal Year Ended June 30, 2018

	2018
Reconciliation of operating income to net cash used in operating activities:	
Operating loss	\$ <u>(5,658,730)</u>
Adjustments to reconcile operating loss to net cash used in operating activities:	
Depreciation	9,226,174
Other non-operating revenues	1,724
Other non-operating expenses	(170,804)
Changes in assets, deferred outflows of resources, liabilities and deferred inflows of resources:	
(Increase) decrease in assets:	
Accounts receivable	(10,909)
Accounts receivable – other	2,820
Accounts receivable – due from member agencies	(2,774,972)
Note receivable, net	(69,138)
Materials and supplies inventory	3,411
Prepaid expenses and other deposits	6,277
Increase in deferred outflows of resources	563
Increase (decrease) in liabilities:	
Accounts payable and accrued expenses	(3,458,698)
Construction retention payable	(6,378,023)
Accrued wages and related payables	17,154
Compensated absences	19,976
Other payables	(6,852)
Total other post-employment benefits liability	866,327
Net pension liability	738,950
Decrease in deferred inflows of resources	<u>(75,586)</u>
Total adjustments	<u>(2,061,606)</u>
Net cash used in operating activities	<u>\$ (7,720,336)</u>
Non-cash investing, capital and financing transactions:	
Change in fair value of funds deposited with LAIF	\$ <u>7,311</u>
Change in capital contributions – grants	\$ <u>148,689</u>

See accompanying notes to the basic financial statements

Victor Valley Wastewater Reclamation Authority
Notes to the Financial Statements
For the Fiscal Year Ended June 30, 2018

(1) Reporting Entity and Summary of Significant Accounting Policies

A. Organization and Operations of the Reporting Entity

The Victor Valley Wastewater Reclamation Authority (the Authority) was formed on December 13, 1977, under a joint powers agreement between local governments and special district consisting of the City of Victorville, the City of Hesperia, the Town of Apple Valley, and the County of San Bernardino Service Areas No. 42 (Oro Grande) and No. 64 (Spring Valley Lake) for the purpose of construction, operation, and maintenance of sewer collection, and treatment facilities within the service areas. The Authority is governed by a four-member Board of Commissioners.

B. Basis of Accounting and Measurement Focus

The Authority reports its activities as an enterprise fund, which is used to account for operations that are financed and operated in a manner similar to a private business enterprise, where the intent of the Authority is that the costs of providing wastewater services, collection and treatment for its service areas on a continuing basis be financed or recovered primarily through user charges (sewer service charges), capital grants and similar funding. Revenues and expenses are recognized on the full accrual basis of accounting. Revenues are recognized in the accounting period in which they are earned and expenses are recognized in the period incurred, regardless of when the related cash flows take place.

Operating revenues and expenses, such as sewer service charges, result from exchange transactions associated with the principal activity of the Authority. Exchange transactions are those in which each party receives and gives up essentially equal values. Management, administration and depreciation expenses are also considered operating expenses. Other revenues and expenses not included in the above categories are reported as non-operating revenues and expenses.

C. Financial Reporting

The financial statements of the Authority are prepared in accordance with accounting principles generally accepted in the United States of America (GAAP) issued by the Governmental Accounting Standards Board (GASB) applicable to governmental entities that use proprietary fund accounting including:

The Authority has adopted the following GASB pronouncements in the current year:

Governmental Accounting Standards Board Statement No. 75

In June 2015, the GASB issued Statement No. 75 – Accounting and Financial Reporting for Postemployment Benefits Other Than Pensions. The objective of this Statement is to improve accounting and financial reporting by state and local governments for postemployment benefits other than pensions (OPEB). It also improves information provided by state and local governmental employers about financial support for OPEB that is provided by other entities.

This Statement replaces the requirements of Statement 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 provisions of this Statement are effective for financial statements for periods beginning after June 15, 2017. The impact of the implementation of this Statement to the Authority’s financial statements has not been assessed at this time.

Governmental Accounting Standards Board Statement No. 81

In March 2016, the GASB issued Statement No. 81 – *Irrevocable Split-Interest Agreements*. The objective of this Statement is to improve accounting and financial reporting for irrevocable split-interest agreements by providing recognition and measurement guidance for situations in which a government is a beneficiary of the agreement.

Victor Valley Wastewater Reclamation Authority
Notes to the Financial Statements
For the Fiscal Year Ended June 30, 2018

(1) Reporting Entity and Summary of Significant Accounting Policies, continued

C. Financial Reporting, continued

Governmental Accounting Standards Board Statement No. 81, continued

This Statement requires that a government that receives resources pursuant to an irrevocable split-interest agreement recognize assets, liabilities, and deferred inflows of resources at the inception of the agreement. Furthermore, this Statement requires that a government recognize assets representing its beneficial interests in irrevocable split-interest agreements that are administered by a third party, if the government controls the present service capacity of the beneficial interests. This Statement requires that a government recognize revenue when the resources become applicable to the reporting period.

The requirements of this Statement are effective for financial statements for periods beginning after December 15, 2016, and should be applied retroactively.

Governmental Accounting Standards Board Statement No. 85

In March 2017, the GASB issued Statement No. 85 – *Omnibus 2017*. The objective of this Statement is to address practice issues that have been identified during implementation and application of certain GASB Statements. This Statement addresses a variety of topics including issues related to blending component units, goodwill, fair value measurement and application, and postemployment benefits (pensions and other postemployment benefits - OPEB).

The provisions of this Statement are effective for reporting periods beginning after June 15, 2017. The impact of the implementation of this Statement to the Authority's financial statements has not been assessed at this time.

Governmental Accounting Standards Board 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.

This Statement establishes accounting requirements for interest cost incurred before the end of a construction period. Such interest cost includes all interest that previously was accounted for in accordance with the requirements of paragraphs 5–22 of Statement No. 62, *Codification of Accounting and Financial Reporting Guidance Contained in Pre-November 30, 1989 FASB and AICPA Pronouncements*, which are superseded by this Statement. This Statement requires that interest cost incurred before the end of a construction period be recognized as an expense in the period in which the cost is incurred for financial statements prepared using the economic resources measurement focus. As a result, interest cost incurred before the end of a construction period will not be included in the historical cost of a capital asset reported in a business-type activity or enterprise fund.

This Statement also reiterates that in financial statements prepared using the current financial resources measurement focus, interest cost incurred before the end of a construction period should be recognized as an expenditure on a basis consistent with governmental fund accounting principles.

The requirements of this Statement are effective for reporting periods beginning after December 15, 2019. Earlier application is encouraged. The requirements of this Statement should be applied prospectively.

The impact of the implementation of this Statement to the Authority's financial statements during the fiscal year ended June 30, 2018 included recognition of construction period interest upon the finalization of the subregional wastewater reclamation plants in Hesperia and Apple Valley of \$577,805 and \$366,235, respectively.

Victor Valley Wastewater Reclamation Authority
Notes to the Financial Statements
For the Fiscal Year Ended June 30, 2018

(1) Reporting Entity and Summary of Significant Accounting Policies, continued

D. Assets, Deferred Outflows, Liabilities, Deferred Inflows and Net Position

1. Use of Estimates

The preparation of the basic financial statements in conformity with generally accepted accounting principles requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosures of contingent assets and liabilities at the date of the financial statements and the reported changes in net position during the reporting period. Actual results could differ from those estimates.

2. Cash and Cash Equivalents

Substantially all of the Authority's cash is invested in interest bearing accounts. The Authority considers all highly liquid investments with a maturity of three months or less at the date of purchase to be cash equivalents.

3. Investments and Investment Policy

The Authority has adopted an investment policy directing the Director of Finance or the Accounting Supervisor to deposit funds in financial institutions.

Changes in fair value that occur during a fiscal year are recognized as unrealized gains or losses and reported for that fiscal year. Investment income comprises interest earnings, changes in fair value, and any gains or losses realized upon the liquidation or sale of investments.

4. Fair Value Measurements

The Authority categorizes its fair value measurements within the fair value hierarchy established by generally accepted accounting principles. The hierarchy is based on valuation inputs used to measure the fair value of the asset, as follows:

- **Level 1** – Valuation is based on quoted prices in active markets for identical assets.
- **Level 2** – Valuation is based on directly observable and indirectly observable inputs. These inputs are derived principally from or corroborated by observable market data through correlation or market-corroborated inputs. The concept of market-corroborated inputs incorporates observable market data such as interest rates and yield curves that are observable at commonly quoted intervals.
- **Level 3** – Valuation is based on unobservable inputs where assumptions are made based on factors such as prepayment rates, probability of defaults, loss severity and other assumptions that are internally generated and cannot be observed in the market.

The asset's fair value measurement level within the fair value hierarchy is based on the lowest level of any input that is significant to the fair value measurement. Valuation techniques attempt to maximize the use of observable inputs and minimize the use of unobservable inputs.

The preceding methods described may produce a fair value calculation that may not be indicative of net realizable value or reflective of future fair values. Furthermore, although the Authority believes its valuation methods are appropriate and consistent with other market participants, the use of different methodologies or assumptions to determine the fair value of certain financial instruments could result in different fair value measurement at the reporting date.

Victor Valley Wastewater Reclamation Authority
Notes to the Financial Statements, continued
For the Fiscal Year Ended June 30, 2018

(1) Reporting Entity and Summary of Significant Accounting Policies, continued

D. Assets, Deferred Outflows, Liabilities, Deferred Inflows and Net Position, continued

5. Restricted Assets

Amounts shown as restricted assets are to be used for specified purposes, such as payments of state revolving fund debts and the construction of capital assets. Such assets have been restricted by loan agreement provisions, law or contractual obligations.

6. Accounts Receivable and Allowance for Uncollectible Accounts

The Authority extends credit to customers in the normal course of operations. When management deems customer accounts uncollectible, the Authority uses the indirect write-off method as accounts become uncollectible.

7. Federal Capital and Operating Grants

When a grant agreement is approved and eligible expenditures are incurred, the amount is recorded as a federal capital or operating grant receivable on the statement of net position and as capital grant contribution or operating grant revenue, as appropriate, on the statement of revenues, expenses and changes in net position.

8. Materials and Supplies Inventory

Material and supply inventory is valued at an acquisition cost and accounted for on a specific identification basis.

9. Prepaids and other deposits

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

10. Capital Assets

Capital assets acquired and/or constructed are capitalized at a historical cost. Authority policy has set the capitalization threshold for reporting capital assets at \$5,000. Contributed capital assets are recorded at acquisition value. Upon retirement or other disposition of capital assets, the cost and related accumulated depreciation are removed from the respective balances and any gains or losses are recognized. Depreciation is recorded on a straight-line basis over the estimated useful lives of the assets as follows:

- Plant, buildings and interceptor lines 20 years
- Land Improvements 15 years
- Equipment and vehicle 5 to 7 years

11. Deferred Outflows of Resources

The statement of net position will sometimes report a separate section for deferred outflows of resources. This separate financial statement element, *deferred outflows of resources*, represents a consumption of resources applicable to future periods and therefore will *not* be recognized as an outflow of resources (expenditure) until that time. The Authority has the following items that qualify for reporting in this category:

- Deferred outflow which is equal to the employer contributions made after the measurement date of the net pension liability. This amount will be amortized-in-full against the net pension liability in the next fiscal year.

Victor Valley Wastewater Reclamation Authority
Notes to the Financial Statements, continued
For the Fiscal Year Ended June 30, 2018

(1) Reporting Entity and Summary of Significant Accounting Policies, continued

D. Assets, Deferred Outflows, Liabilities, Deferred Inflows and Net Position, continued

11. Deferred Outflows of Resources, continued

- Deferred outflow for the net changes in assumptions which will be amortized over a closed period equal to the average of the expected remaining service lives of all employees that are provided with pensions through the Plan.
- Deferred outflow for the net difference in projected and actual earnings on investments of the pension plans fiduciary net position. This amount is amortized over a 5 year period.
- Deferred outflow for the net difference in actual and proportionate share of employer contribution and net changes in proportion which will be amortized over a closed period equal to the average of the expected remaining service lives of all employees that are provided with pensions through the Plan.
- Deferred outflow for the net changes due to differences in the changes in proportions of the net pension liability which will be amortized over a closed period equal to the average of the expected remaining service lives of all employees that are provided with pensions through the Plan.

12. Compensated Absences

The Authority's policy is to permit an employee to accumulate earned vacation up to a total of 360 hours. An employee who has accumulated over 200 hours of unused sick leave may elect to receive the balance up to 40 hours of sick leave hours per a fiscal year. In addition, the employee may receive a cash payment for 20 or more hours of vacation during any pay period including the last full pay period in the fiscal year as long as the employee has 40 hours of vacation time remaining on the books.

13. Post-Employment Benefits Other Than Pensions (OPEB)

For purposes of measuring the total OPEB liability and deferred outflows/inflows of resources related to OPEB, and OPEB expense, information about the fiduciary net position of the Authority's OPEB plan (Plan) and additions to/deductions from the Plans' 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.

GASB 75 requires that the reported results must pertain to liability and asset information within certain defined timeframes. For this report, the following timeframes are used:

- Valuation Date: June 30, 2018
- Measurement Date: June 30, 2018
- Measurement Period: July 1, 2017 to June 30, 2018

14. 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 Authority's California Public Employees' Retirement System (CalPERS) plans (Plans) and addition to/deduction from the Plans' 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.

Victor Valley Wastewater Reclamation Authority
Notes to the Financial Statements, continued
For the Fiscal Year Ended June 30, 2018

(1) Reporting Entity and Summary of Significant Accounting Policies, continued

D. Assets, Deferred Outflows, Liabilities, Deferred Inflows and Net Position, continued

14. Pensions, continued

GASB 68 requires that the reported results must pertain to liability and asset information within certain defined timeframes. For this report, the following timeframes are used:

- Valuation Date: June 30, 2016
- Measurement Date: June 30, 2017
- Measurement Period: July 1, 2016 to June 30, 2017

15. Deferred Inflows of Resources

The statement of net position will sometimes report a separate section for deferred inflows of resources. This financial statement element, deferred inflows of resources, represents an acquisition of resources applicable to future periods and therefore will not be recognized as an inflow of resources (revenue) until that time. The Authority has the following items that qualify for reporting in this category:

- Deferred inflow for the net differences between the actual and expected experience which will be amortized over a closed period equal to the average of the expected remaining service lives of all employees that are provided with pensions through the Plan.

16. Net Position

The financial statements utilize a net position presentation. Net position is categorized as follows:

- *Net Investment in Capital Assets Component of Net Position*– This component of net position consists of capital assets, net of accumulated depreciation, and reduced by any debt outstanding against the acquisition, construction or improvement of those assets. Deferred outflows of resources and deferred inflows of resources that are attributable to the acquisition, construction, or improvement of those assets or related debt is included in this component of net position
- *Restricted Component of Net Position* – This component of net position consists of assets that have restrictions placed upon their use by external constraints imposed either by creditors (debt covenants), grantors, contributors, or laws and regulations of other governments or constraints imposed by law through enabling legislation.
- *Unrestricted Component of Net Position* – This component of net position 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 the net investment in capital assets or restricted component of net position.

17. Operating Revenues and Expenses

Operating revenues and expenses represent revenue earned and the related costs incurred to provide wastewater services to the Authority's customers.

18. Capital Contributions

Capital contributions represent cash and capital asset additions contributed to the Authority by granting agencies or member agencies requesting services that require capital expenditures or connection to the Authority's system.

Victor Valley Wastewater Reclamation Authority
Notes to the Financial Statements, continued
For the Fiscal Year Ended June 30, 2018

(1) Reporting Entity and Summary of Significant Accounting Policies, continued

D. Assets, Deferred Outflows, Liabilities, Deferred Inflows and Net Position, continued

19. Budgetary Policies

Prior to June 30th each fiscal year, the Authority adopts an annual appropriated budget for planning, control, and evaluation purposes. The budget includes proposed expenses and the means of financing them. Budgetary control and evaluation are affected by comparisons of actual revenues and expenses with planned revenues and expenses for the period. The Board approves total budgeted appropriations and any amendments to the appropriations throughout the year. The Joint Powers Agreement requires the preparation of an annual budget, but the Authority is not legally required to report on the budget approved. Encumbrance accounting is not required to account for commitments related to unperformed contracts for construction and services.

(2) Cash and Investments

Cash and investments as of June 30 are classified in the accompanying financial statements as follows:

	2018
Cash and cash equivalents	\$ 4,082,087
Restricted – Cash and cash equivalents	5,285,091
Total cash and investments	\$ 9,367,178

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

	2018
Deposits with financial institutions	\$ 4,720,145
Investments:	
Deposits with California Local Agency Investment Fund (LAIF)	1,537,864
Deposits with Cal Trust – Short Term Fund	3,109,169
Total investments	4,647,033
Total cash and investments	\$ 9,367,178

As of June 30, the Authority’s authorized deposits had the following maturities:

	2018
Deposits held with California Local Agency Investment Fund (LAIF)	193 days
Deposits held with Cal Trust – Short Term Fund	318 days

Victor Valley Wastewater Reclamation Authority
Notes to the Financial Statements, continued
For the Fiscal Year Ended June 30, 2018

(2) Cash and Investments, continued

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

The table below identifies the investment types that are authorized by the Authority in accordance with the California Government Code (or the Authority's investment policy, where more restrictive). The table also identifies certain provisions of the California Government Code (or the Authority's investment policy, where more restrictive) that address interest rate risk, credit risk, and concentration of credit risk.

<u>Authorized Investment Type</u>	<u>Maximum Maturity</u>	<u>Maximum Percentage of Portfolio</u>	<u>Maximum Investment in One Issuer</u>
U.S. Treasury obligations	5 years	None	None
Federal agency securities	5 years	None	None
Banker's acceptances	180 days	40%	30%
Negotiable certificates of deposit	5 years	30%	None
Repurchase agreements	1 year	None	None
Medium-term notes	5 years	30%	None
Mutual funds	N/A	20%	10%
San Bernardino County Local Agency: Investment Fund (SBCLAIF)	N/A	None	None
California Local Agency Investment Fund (LAIF)	N/A	None	None
Investment Trust of California (CalTRUST)	N/A	None	None

Investment in State Investment Pool

The Authority is a voluntary participant in the Local Agency Investment Fund (LAIF) that is regulated by the California Government Code under the oversight of the Treasurer of the State of California. The fair value of the Authority's investment in this pool is reported in the accompanying financial statements at amounts based upon the Authority's pro-rata share of the fair value provided by LAIF for the entire LAIF portfolio (in relation to the amortized cost of that portfolio). The balance available for withdrawal is based on the accounting records maintained by LAIF, which are recorded on an amortized cost basis.

The pool portfolio is invested in a manner that meets the maturity, quality, diversification and liquidity requirements set forth by GASB 79 for external investments pools that elect to measure, for financial reporting purposes, investments at amortized cost. LAIF does not have any legally binding guarantees of share values. LAIF does not impose liquidity fees or redemption gates on participant withdrawals.

Investment in Investment Trust of California

CalTrust is organized as a Joint Powers Authority. CalTrust is a program established by public agencies in California for the purpose of pooling and investing local agency funds – operating reserves as well as bond proceeds. Any California local agency may participate in the Trust and invest its funds. Funds from all participants are pooled in each of the accounts. Participants receive units in the Trust and designated shares for the particular account in which they invest. CalTrust invests in fixed income securities eligible for investment pursuant to California Government Code Sections 53601, et seq. and 53635, et seq. Investment guidelines adopted by the Board of Trustees may further restrict the types of investments held by the Trust. Leveraging within the Trust's portfolio is prohibited.

Victor Valley Wastewater Reclamation Authority
Notes to the Financial Statements, continued
For the Fiscal Year Ended June 30, 2018

(2) Cash and Investments, continued

Custodial Credit Risk

Custodial credit risk for deposits is the risk that, in the event of the failure of a depository financial institution, the Authority 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 California Government Code and the Authority's investment policy does not contain legal or policy requirements that would limit the exposure to custodial credit risk for deposits, 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 (unless so waived by the governmental unit). The fair value of the pledged securities in the collateral pool must equal at least 110% of the total amount deposited by the public agencies. Of the bank balances, up to \$250,000 at June 30, 2018, is federally insured and the remaining balance is collateralized in accordance with the Code; however, the collateralized securities are not held in the Authority's name.

The custodial credit risk for investments is the risk that, in the event of the failure of the counterparty (e.g., broker-dealer) to a transaction, the Authority will not be able to recover the value of its investment or collateral securities that are in the possession of another party. The Code and the Authority's investment policy contain legal and policy requirements that would limit the exposure to custodial credit risk for investments. With respect to investments, custodial credit risk generally applies only to direct investments in marketable securities. Custodial credit risk does not apply to a local government's indirect investment in securities through the use of mutual funds or government investment pools (such as LAIF).

Interest Rate Risk

Interest rate risk is the risk that changes in market interest rates will adversely affect the fair value of an investment. The longer the maturity of an investment has, the greater its fair value has sensitivity to changes in market interest rates. It is the policy of the Authority to invest public funds in a prudent manner which will provide in the following order: 1) the highest level of safety of funds, 2) liquidity of funds in order that daily cash flow demands are met, 3) the yield or investment return be maximized while conforming to all laws of the State of California regarding the investment of public funds. This policy provides guidelines for authorized investments and in accordance with Section 53646 of the California Government Code.

Maturities of investments at June 30, 2018, were as follows:

Investment Type	Total	Remaining Maturity (in Months) 12 Months Or Less
California Local Agency Investment Fund (LAIF) \$	1,537,864	1,537,864
Cal Trust – Short Term Fund	3,109,169	3,109,169
Total	\$ 4,647,033	4,647,033

Credit Risk

Credit risk is the risk that an issuer of an investment will not fulfill its obligation to the holder of the investment. This is measured by the assignment of a rating by a nationally recognized statistical rating organization.

Victor Valley Wastewater Reclamation Authority
Notes to the Financial Statements, continued
For the Fiscal Year Ended June 30, 2018

(2) Cash and Investments, continued

Credit Risk, continued

Credit ratings of investments as of June 30, 2018 consisted of the following:

<u>Investment Types</u>	<u>Total</u>	<u>Minimum Legal Rating</u>	<u>Rating AAA</u>	<u>Not Rated</u>
California Local Agency Investment Fund (LAIF) \$	1,537,864	N/A	-	1,537,864
Cal Trust – Short Term Fund	<u>3,109,169</u>	AAA	<u>3,109,169</u>	<u>-</u>
Total	<u>\$ 4,647,033</u>		<u>3,109,169</u>	<u>1,537,864</u>

Concentration of Credit Risk

The Authority's investment policy contains the maximum amount and percentage that can be invested in any one issuer as beyond that stipulated by the California Government Code. There were no investments in any one issuer that represent 5% or more of total Authority's investments at June 30, 2018.

Fair Value Measurements

At June 30, 2018, the Authority held no investments which required fair value measurement.

(3) Accounts Receivable – Due from Member Agencies

Accounts receivable – due from member agencies at June 30, were as follows:

	<u>2018</u>
User Charge Receivable:	
City of Hesperia	\$ 2,044,387
Town of Apple Valley	373,730
City of Victorville	1,343,427
County of San Bernardino Special Districts	<u>61,696</u>
Total user charge receivable	<u>3,823,240</u>
Connection Fees Receivable:	
City of Hesperia	1,216,985
Town of Apple Valley	47,200
City of Victorville	29,400
County of San Bernardino Special Districts	<u>142,500</u>
Total connection fees receivable	<u>1,436,085</u>
Total due from member agencies	<u>\$ 5,259,325</u>

Victor Valley Wastewater Reclamation Authority
Notes to the Financial Statements, continued
For the Fiscal Year Ended June 30, 2018

(4) Accounts Receivable – Other

Other receivables include amounts related to a Flexible Health Savings Account established by the Authority for qualified employees. Terms of the program provide that the Authority fund each participating employee’s flexible health savings amount at the beginning of each year. Funds are reimbursed to the Authority through payroll deductions.

Accounts receivable – other at June 30, were as follows:

	2018
Flexible health savings account	\$ 9,131

(5) Notes Receivable, Net

Changes in notes receivable amounts for 2018 were as follows:

	Balance 2017	Additions	Payments	Balance 2018
Notes receivable:				
AVRWC (dba Liberty Utilities)	\$ 228,267	-	(5,853)	222,414
AVRWC (dba Liberty Utilities) – Discount	(80,087)	-	2,053	(78,034)
Subtotal AVRWC	148,180	-	(3,800)	144,380
Biogas Power Systems – Mojave LLC	-	75,320	(2,382)	72,938
Total	148,180	75,320	(6,182)	217,318
Less current	(5,853)			(9,562)
Total non-current	\$ 142,327			207,756

Apple Valley Ranchos Water Company (AVRWC) – (dba Liberty Utilities)

On November 10, 2015, Apple Valley Ranchos Water Company (dba Liberty Utilities) entered into a loan agreement with the Authority, for the construction of water main extension facilities in the amount of \$234,120. Terms of the agreement call for annual principal only payments in the amount of \$5,853 at a rate of zero percent commencing November 2017, maturing November 2056. The Authority is imputing interest at the rate of 2.3% per annum.

Victor Valley Wastewater Reclamation Authority
Notes to the Financial Statements, continued
For the Fiscal Year Ended June 30, 2018

(5) Notes Receivable, Net, continued

Apple Valley Ranchos Water Company (AVRWC) – (dba Liberty Utilities), continued

As of June 30, the amount receivable under the contract is as follows:

<u>Fiscal Year</u>	<u>Principal</u>	<u>Amortized Discount</u>	<u>Total</u>
2019	\$ 5,853	(2,054)	3,799
2020	5,853	(2,053)	3,800
2021	5,853	(2,054)	3,799
2022	5,853	(2,053)	3,800
2023	5,853	(2,054)	3,799
2024-2028	29,265	(10,267)	18,998
2029-2033	29,265	(10,268)	18,997
2034-2038	29,265	(10,267)	18,998
2039-2043	29,265	(10,268)	18,997
2044-2048	29,265	(10,267)	18,998
2049-2053	29,265	(10,268)	18,997
2054-2056	17,559	(6,161)	11,398
Total	222,414	(78,034)	144,380
Less current	(5,853)		
Less Unamortized discount	(78,034)		
Total non-current	\$ <u>138,527</u>		

Biogas Power Systems – Mojave LLC

On October 5, 2017, Biogas Power Systems – Mojave LLC entered into a loan agreement with the Authority, for an adjustment to the cost of modifications in the First Amendment to Biogas Power Generation Service Agreement in the amount of \$75,320. Terms of the agreement call for monthly payments in the amount of \$426.73 at a rate of 1.65 percent commencing November 30, 2017, maturing November 2035.

<u>Fiscal Year</u>	<u>Principal</u>	<u>Interest</u>	<u>Total</u>
2019	\$ 3,709	1,412	5,121
2020	3,783	1,338	5,121
2021	3,859	1,262	5,121
2022	3,936	1,185	5,121
2023	4,014	1,106	5,120
2024-2028	21,309	4,294	25,603
2029-2033	23,527	2,077	25,604
2034-2035	8,801	161	8,962
Total	72,938	12,835	85,773
Less current	(3,709)		
Total non-current	\$ <u>69,229</u>		

Victor Valley Wastewater Reclamation Authority
Notes to the Financial Statements, continued
For the Fiscal Year Ended June 30, 2018

(6) Capital Assets

Changes in capital assets for 2018 were as follows:

	<u>Balance 2017</u>	<u>Additions</u>	<u>Disposals/ Transfers</u>	<u>Balance 2018</u>
Non-depreciable assets:				
Land	\$ 779,136	-	-	779,136
Construction in progress	82,908,664	8,217,002	(88,823,701)	2,301,965
Total non-depreciable assets	<u>83,687,800</u>	<u>8,217,002</u>	<u>(88,823,701)</u>	<u>3,081,101</u>
Depreciable assets:				
Land improvements	9,738,124	-	-	9,738,124
Plant and building	133,494,901	84,667,951	-	218,162,852
Interceptor lines	62,653,035	4,890,977	-	67,544,012
Office equipment	766,585	9,027	-	775,612
Trucks and autos	911,116	-	(69,548)	841,568
Total depreciable assets	<u>207,563,761</u>	<u>89,567,955</u>	<u>(69,548)</u>	<u>297,062,168</u>
Less accumulated depreciation:				
Land improvements	(4,700,468)	(589,306)	-	(5,289,774)
Plant and building	(66,057,323)	(6,195,878)	-	(72,253,201)
Interceptor lines	(14,721,147)	(2,376,363)	-	(17,097,510)
Office equipment	(589,109)	(56,145)	-	(645,254)
Trucks and autos	(890,242)	(8,482)	69,548	(829,176)
Total accumulated depreciation	<u>(86,958,289)</u>	<u>(9,226,174)</u>	<u>69,548</u>	<u>(96,114,915)</u>
Total depreciable assets, net	<u>120,605,472</u>	<u>80,341,781</u>	<u>-</u>	<u>200,947,253</u>
Total capital assets, net	<u>\$ 204,293,272</u>	<u>88,558,783</u>	<u>(88,823,701)</u>	<u>204,028,354</u>

Changes in capital assets not being depreciated consists of additions to construction in progress of \$8,217,002 related to ongoing projects. Decreases in construction in progress related to transfers of plant, building and equipment of \$83,932,724 and interceptor pipelines of \$4,890,977.

Changes in capital assets being depreciated consists of additions of \$84,667,951 to plant and building sourcing from construction-in-progress of \$83,932,724 and additions outside of construction-in-progress of \$735,227, \$4,890,977 to interceptor pipelines sourcing from transfers from construction in progress, and \$9,027 of additions to office equipment.

Construction In Process

The Authority is involved in various construction projects throughout the year. Once completed, projects are capitalized and depreciated over the life of the asset.

Construction in progress for June 30, 2017 and 2018, was as follows:

<u>Projects</u>	<u>2017</u>	<u>2018</u>
Hesperia Wastewater Reclamation Plant	\$ 40,285,673	-
Apple Valley Wastewater Reclamation Plant	36,974,149	-
Nanticoke Gravity Interceptor	4,708,833	-
Desert Knolls Wash	201,637	353,845
Lab-EC-IT-Constr. Bldg (Butler Bldg)	277,506	277,506
Oro Grande Inteceptor Project	266,799	268,849
Micro-grid / Battery Storage Project	135,973	1,173,574
Total Ignition SCADA Project	-	150,000
Various other minor projects > \$50,000	58,094	78,191
Total	<u>\$ 82,908,664</u>	<u>2,301,965</u>

Victor Valley Wastewater Reclamation Authority
Notes to the Financial Statements, continued
For the Fiscal Year Ended June 30, 2018

(7) Compensated Absences

The changes to compensated absences balance at June 30, were as follows:

<u>Balance</u> <u>2017</u>	<u>Additions</u>	<u>Deletions</u>	<u>Balance</u> <u>2017</u>	<u>Due Within</u> <u>One Year</u>	<u>Due in More</u> <u>Than One Year</u>
\$ 268,043	335,965	(315,989)	288,019	72,005	216,014

(8) Other Payables

At June 30 2018, other payables are related to a legal settlement with a former employee.

Other payable future payments to maturity are as follows:

<u>Fiscal Year</u>	<u>Total</u>
2019	\$ 6,852
2020	6,852
2021	6,852
2022	<u>1,678</u>
Total	22,234
Less current	<u>(6,852)</u>
Total non-current	<u>\$ 15,382</u>

(9) Lease Payable

Lease payable at June 30, was as follows:

	<u>2017</u>	<u>Additions</u>	<u>Payments</u>	<u>2018</u>
Lease payable:				
KS State Bank	\$ -	532,943	(103,791)	429,152
Less current	<u>-</u>			<u>(89,930)</u>
Total non-current	<u>\$ -</u>			<u>339,222</u>

KS State Bank – Brown Bear Tractor

On August 1, 2017, the Authority entered into a lease purchase option agreement with KS State Bank for the purchase acquisition of a Brown Bear Tractor in the amount of \$532,943. Terms of the agreement call for annual principal and interest payments, at the rate of 9.159%, with an expected maturity in August 2022.

<u>Fiscal Year</u>	<u>Principal</u>	<u>Interest</u>	<u>Total</u>
2019	\$ 89,930	13,861	103,791
2020	92,834	10,957	103,791
2021	95,833	7,958	103,791
2022	98,928	4,863	103,791
2023	<u>51,627</u>	<u>1,668</u>	<u>53,295</u>
Total	429,152	<u>39,307</u>	<u>468,459</u>
Less current	<u>(89,930)</u>		
Total non-current	<u>\$ 339,222</u>		

Victor Valley Wastewater Reclamation Authority
Notes to the Financial Statements, continued
For the Fiscal Year Ended June 30, 2018

(10) Loans Payable

Loans payable at June 30, were as follows:

	<u>2017</u>	<u>Additions</u>	<u>Payments</u>	<u>2018</u>
State Revolving Fund Loans (SRF):				
9.5 MGD Improvements Project	\$ 755,525	-	(245,406)	510,119
11 MGD Expansion Project	2,747,174	-	(529,047)	2,218,127
North Apple Valley Interceptor	1,639,102	-	(217,174)	1,421,928
Phase III-A Facility	12,538,026	-	(689,083)	11,848,943
Upper Narrows Pipeline Replacement	3,381,439	-	(193,498)	3,187,941
Sub-Regional – Hesperia	34,102,085	3,656,300	-	37,758,385
Sub-Regional – Apple Valley	22,230,947	4,224,282	-	26,455,229
Nanticoke Gravity Interceptor	4,083,755	411,458	(196,889)	4,298,324
Southern California Edison Loans:	-			
So. Cal. Edison loan 2015	75,453	-	(18,282)	57,171
So. Cal. Edison loan 2016	7,934	-	(7,934)	-
Total	<u>81,561,440</u>	<u>8,292,040</u>	<u>(2,097,313)</u>	<u>87,756,167</u>
Less current	<u>(1,899,554)</u>			<u>(3,980,387)</u>
Total non-current	<u>\$ 79,661,886</u>			<u>83,775,780</u>

SRF – 9.5 MGD Improvements Project

In October 1999, the Authority obtained a \$4,069,859 loan from the State Revolving Fund to provide funds for the 9.5 MGD Improvements Projects. Terms of the agreement call for annual principal and interest payments due on September 15th at the rate of 2.600%, maturing in fiscal year 2020.

Future long-term debt service requirements to maturity are as follows:

<u>Fiscal Year</u>	<u>Principal</u>	<u>Interest</u>	<u>Total</u>
2019	\$ 251,786	13,263	265,049
2020	<u>258,333</u>	<u>6,717</u>	<u>265,050</u>
Total	510,119	<u>19,980</u>	<u>530,099</u>
Less current	<u>(251,786)</u>		
Total non-current	<u>\$ 258,333</u>		

Victor Valley Wastewater Reclamation Authority
Notes to the Financial Statements, continued
For the Fiscal Year Ended June 30, 2018

(10) Loans Payable, continued

SRF – 11.0 MGD Expansion Project

In December 2001, the Authority obtained an \$11,430,726 loan at a zero percent interest rate from the State Revolving Fund to provide funds for the 11.0 MGD Expansion Project. Terms of the agreement call for annual payments due on April 3rd, maturing in fiscal year 2022. The Authority is imputing interest expense at the rate of 1.850% per annum.

Future long-term debt service requirements to maturity are as follows:

<u>Fiscal Year</u>	<u>Principal</u>	<u>Interest</u>	<u>Total</u>
2019	\$ 538,835	41,035	579,870
2020	548,803	31,067	579,870
2021	558,956	20,914	579,870
2022	<u>571,533</u>	<u>8,336</u>	<u>579,869</u>
Total	2,218,127	<u>101,352</u>	<u>2,319,479</u>
Less current	<u>(538,835)</u>		
Total non-current	\$ <u>1,679,292</u>		

SRF Loan Payable – North Apple Valley Interceptor

In September 2004, the Authority obtained a \$4,084,688 loan from the State Revolving Fund to provide funds for the North Apple Valley Interceptor. Terms of the agreement call for annual principal and interest payments due on February 13th at the rate of 2.500%, maturing in fiscal year 2024.

Future long-term debt service requirements to maturity are as follows:

<u>Fiscal Year</u>	<u>Principal</u>	<u>Interest</u>	<u>Total</u>
2019	\$ 222,603	21,329	243,932
2020	228,168	17,990	246,158
2021	233,872	14,567	248,439
2022	239,719	11,059	250,778
2023	245,712	7,464	253,176
2024	<u>251,854</u>	<u>3,778</u>	<u>255,632</u>
Total	1,421,928	<u>76,187</u>	<u>1,498,115</u>
Less current	<u>(222,603)</u>		
Total non-current	\$ <u>1,199,325</u>		

Victor Valley Wastewater Reclamation Authority
Notes to the Financial Statements, continued
For the Fiscal Year Ended June 30, 2018

(10) Loans Payable, continued

SRF Loan Payable – Phase III-A Facility

On October 11, 2010, the Authority entered into a loan agreement to receive up to \$18,581,561 from the California State Water Resources Control Board to construct a water treatment facility at the Authority's plant site in the City of Victorville. The total loan amount is \$18,581,561 which includes a contingent principal forgiveness of \$3,000,000 received during the fiscal year ended June 30, 2013. Terms of the agreement call for annual principal and interest payments due on June 30th at the rate of 2.700%, maturing in fiscal year 2032.

Future long-term debt service requirements to maturity are as follows:

<u>Fiscal Year</u>	<u>Principal</u>	<u>Interest</u>	<u>Total</u>
2019	\$ 707,688	319,922	1,027,610
2020	726,796	300,814	1,027,610
2021	746,419	281,191	1,027,610
2022	766,573	261,037	1,027,610
2023	787,270	240,340	1,027,610
2024-2028	4,266,909	871,141	5,138,050
2029-2032	<u>3,847,288</u>	<u>263,151</u>	<u>4,110,439</u>
Total	11,848,943	<u>2,537,596</u>	<u>14,386,539</u>
Less current	<u>(707,688)</u>		
Total non-current	\$ <u>11,141,255</u>		

SRF Loan Payable – Upper Narrows Pipeline Replacement

On September 30, 2013, the Authority entered into a loan agreement to receive up to \$4,295,703 from the California State Water Resources Control Board to construct the Upper Narrows Pipeline Replacement. Terms of the agreement call for annual principal and interest payments due on December 31st at the rate of 1.900%, maturing in fiscal year 2033.

Future long-term debt service requirements to maturity are as follows:

<u>Fiscal Year</u>	<u>Principal</u>	<u>Interest</u>	<u>Total</u>
2019	\$ 197,174	60,571	257,745
2020	200,921	56,824	257,745
2021	204,738	53,007	257,745
2022	208,628	49,117	257,745
2023	212,592	45,153	257,745
2024-2028	1,125,108	163,620	1,288,728
2029-2033	<u>1,038,780</u>	<u>52,595</u>	<u>1,091,375</u>
Total	3,187,941	<u>480,887</u>	<u>3,668,828</u>
Less current	<u>(197,174)</u>		
Total non-current	\$ <u>2,990,767</u>		

Victor Valley Wastewater Reclamation Authority
Notes to the Financial Statements, continued
For the Fiscal Year Ended June 30, 2018

(10) Loans Payable, continued

SRF Loan Payable – Subregional Wastewater Reclamation Plant – City of Hesperia

On May 20, 2014, the Authority entered into a loan agreement with the California State Water Resources Control Board (SWRCB) to construct a subregional wastewater reclamation plant in the City of Hesperia. The final amended agreement totaled \$37,758,385 which included construction costs and construction period interest. Terms of the agreement call for annual principal and interest payments to commence beginning on February 28, 2019, at the rate of 1.000%, maturing in fiscal year 2048. At June 30, 2018, the Authority had annual claims of \$3,656,300 of the total loan amount during the construction phase through completion.

Future long-term debt service requirements to maturity are as follows:

<u>Fiscal Year</u>	<u>Principal</u>	<u>Interest</u>	<u>Total</u>
2019	1,090,893	371,957	1,462,850
2020	1,096,175	366,675	1,462,850
2021	1,107,137	355,713	1,462,850
2022	1,118,209	344,642	1,462,850
2023	1,129,391	333,460	1,462,850
2024-2028	5,818,637	1,495,614	7,314,252
2029-2033	6,115,446	1,198,805	7,314,252
2034-2038	6,427,396	886,856	7,314,252
2039-2043	6,755,257	558,994	7,314,252
2044-2048	7,099,844	214,408	7,314,252
Total	37,758,385	<u>6,127,124</u>	<u>43,885,509</u>
Less current	<u>(1,090,893)</u>		
Total non-current	\$ <u>36,667,492</u>		

SRF Loan Payable – Subregional Wastewater Reclamation Plant – Town of Apple Valley

On May 22, 2014, the Authority entered into a loan agreement with the California State Water Resources Control Board to construct a subregional wastewater reclamation plant in the Town of Apple Valley. The final amended loan agreement totaled \$26,455,229 which included construction costs and construction period interest. Terms of the agreement call for annual principal and interest payments to commence beginning on February 28, 2019, at the rate of 1.000%, maturing in fiscal year 2048. At June 30, 2018, the Authority had annual claims of \$4,224,282 of the total loan amount during the construction phase. At June 30, 2018, the Authority had \$82,946 in loan receivable.

Victor Valley Wastewater Reclamation Authority
Notes to the Financial Statements, continued
For the Fiscal Year Ended June 30, 2018

(10) Loans Payable, continued

SRF Loan Payable – Subregional Wastewater Reclamation Plant – Town of Apple Valley, continued

Future long-term debt service requirements to maturity are as follows:

<u>Fiscal Year</u>	<u>Principal</u>	<u>Interest</u>	<u>Total</u>
2019	764,031	260,920	1,024,951
2020	768,039	256,912	1,024,951
2021	775,719	249,232	1,024,951
2022	783,476	241,474	1,024,951
2023	791,311	233,640	1,024,951
2024-2028	4,076,847	1,047,907	5,124,754
2029-2033	4,284,807	839,947	5,124,754
2034-2038	4,503,376	621,379	5,124,754
2039-2043	4,733,094	391,661	5,124,754
2044-2048	4,974,529	150,226	5,124,754
Total	26,455,229	<u>4,293,298</u>	<u>30,748,525</u>
Less current	<u>(764,031)</u>		
Total non-current	\$ <u>25,691,198</u>		

SRF Loan Payable – Nanticoke Gravity Interceptor

On August 14, 2014, the Authority entered into a loan agreement with the California State Water Resources Control Board to construct the Nanticoke Pump Station Bypass Sewer project. The final amended loan agreement totaled \$4,495,213 which included construction costs and construction period interest. Terms of the agreement call for annual principal and interest payments to commence beginning on June 30, 2018, at the rate of 1.900%, maturing in fiscal year 2037. At June 30, 2018, the Authority had annual claims of \$411,458, of the total loan amount during the construction phase.

Future long-term debt service requirements to maturity are as follows:

<u>Fiscal Year</u>	<u>Principal</u>	<u>Interest</u>	<u>Total</u>
2019	189,965	81,668	271,633
2020	193,574	78,059	271,633
2021	197,252	74,381	271,633
2022	201,000	70,633	271,633
2023	204,819	66,814	271,633
2024-2028	1,083,966	274,197	1,358,163
2029-2033	1,190,931	167,232	1,358,163
2034-2037	1,036,817	49,712	1,086,529
Total	4,298,324	<u>862,696</u>	<u>5,161,020</u>
Less current	<u>(189,965)</u>		
Total non-current	\$ <u>4,108,359</u>		

Victor Valley Wastewater Reclamation Authority
Notes to the Financial Statements, continued
For the Fiscal Year Ended June 30, 2018

(10) Loans Payable, continued

Southern California Edison Loan 2015

On September 9, 2014, the Authority entered into an Energy Management Solutions loan agreement as an incentive to encourage the Authority to develop an energy saving project. The loan agreement with Southern California Edison includes a zero-percent interest loan in the amount of \$117,298 to provide funds for the acquisition of energy efficient equipment used in the Aeration Efficiency project. Terms of the agreement call for monthly principal payments with an expected maturity in fiscal year 2022.

Future long-term debt service requirements to maturity are as follows:

Fiscal Year	Principal	Interest	Total
2019	\$ 17,412	-	17,412
2020	17,412	-	17,412
2021	17,412	-	17,412
2022	4,935	-	4,935
Total	57,171	-	57,171
Less current	(17,412)		
Total non-current	\$ 39,759		

Southern California Edison Loan 2016

On January 25, 2016, the Authority entered into an Energy Management Solutions loan agreement as an incentive to encourage the Authority to develop an energy saving project. The loan agreement with Southern California Edison loan includes a zero-percent interest loan in the amount of \$153,392 to provide funds for the acquisition of energy efficient equipment used for the Aeration Efficiency project. Terms of the agreement call for monthly principal payments with an expected maturity in fiscal year 2018. At June 30, 2018, the loan was paid-in-full.

(11) Other Post-employment Benefits (OPEB) Plan

General Information about the OPEB Plan

Plan Description

The Authority offers post-employment medical benefits to retired employees who satisfy the eligibility rules, subject to certain restrictions as determined by the Authority. Dependents are also eligible to receive benefits. Retirees may enroll in any plan available through the Authority's CalPERS Medical Program.

Benefits Provided

The Authority's Plan is open to qualified employees who have attained age 50, retired from and were employed by the Authority at least five years.

Employees Covered by Benefit Terms

At June 30, 2018, the following employees were covered by the benefit terms:

	2018
Inactive employees or beneficiaries currently receiving benefit payments	16
Inactive employees entitled to but not receiving benefit payments	-
Active employees	35
Total Plan membership	51

Victor Valley Wastewater Reclamation Authority
Notes to the Financial Statements, continued
For the Fiscal Year Ended June 30, 2018

(11) Other Post-employment Benefits (OPEB) Plan, continued

Contributions

The Plan and its contribution requirements for eligible retired employees of the Authority are established and may be amended by the Board of Directors. The Authority pays 100% of the cost of health insurance for retirees under any group plan offered by CalPERS, subject to certain restrictions as determined by the Authority. The Authority's cap is \$571 per month which is adjusted for each year in accordance with California Government Code Section 22892. The annual contribution is based on the actuarially determined contribution.

As of the fiscal year ended June 30, the contributions were as follows:

	2018
Contributions – employer	\$ 94,258

As of June 30 2018, employer pension contributions of \$94,258 were recognized as a reduction of the total OPEB liability in the fiscal year ended June 30, 2018.

Total OPEB Liability

The Authority's total OPEB liability was measured as of June 30, 2018 and the total OPEB liability used to calculate the total OPEB liability was determined by an actuarial valuation as of June 30, 2018. Standard actuarial update procedures were used to project/discount from valuation to measurement dates.

Actuarial Assumptions

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

Inflation	2.75 percent	
Salary increases	2.75 percent	
Discount rate	3.80 percent	
Healthcare cost trend rates	4.00 percent per year	
Retirees' share of benefit-related costs	100% percent of projected health insurance premiums for retirees at age 50 with a minimum 5 years of service subject to certain restrictions determined by the Authority.	

Notes:

The discount rate was based on the Bond Buyer 20-Year Bond Index.

Discount Rate

The discount rate used to measure the total OPEB liability was 3.80 percent. The projection of cash flows used to determine the discount rate assumed that Authority contributions will be made at rates equal to the actuarially determined contribution rates.

Victor Valley Wastewater Reclamation Authority
Notes to the Financial Statements, continued
For the Fiscal Year Ended June 30, 2018

(11) Other Post-employment Benefits (OPEB) Plan, continued

Total OPEB Liability, continued

Changes in the Total OPEB Liability

	Total OPEB Liability
Balance at June 30, 2017	\$ <u>2,257,004</u>
Changes for the year:	
Service cost	37,946
Interest	84,676
Employer contributions	(94,258)
Employee contributions	-
Actual investment income	-
Administrative expenses	-
Benefit payments	-
Net changes	<u>28,364</u>
Balance at June 30, 2018	\$ <u><u>2,285,368</u></u>

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

The following presents the total OPEB liability of the Authority, as well as what the Authority's total OPEB liability would be if it were calculated using a discount rate that is 1-percentage-point lower (2.80 percent) or 1-percentage-point higher (4.80 percent) than the current discount rate:

	Discount Rate - 1% (2.80%)	Current Discount Rate (3.80%)	Discount Rate + 1% (4.80%)
District's Total OPEB liability \$	<u>2,603,574</u>	<u>2,285,368</u>	<u>2,024,772</u>

Sensitivity of the Total OPEB Liability to Changes in the Healthcare Cost Trend Rates

The following presents the total OPEB liability of the Authority, as well as what the Authority's total OPEB liability would be if it were calculated using healthcare cost trend rates that are 1-percentage-point lower (3.00 percent decreasing to 2.00 percent) or 1-percentage-point higher (5.00 percent decreasing to 4.00 percent) than the current healthcare cost trend rates:

	1% Decrease (3.00% decreasing to 2.00%)	Healthcare Cost Trend Rates (4.00% decreasing to 3.00%)	1% Increase (5.00% decreasing to 4.00%)
District's Total OPEB liability \$	<u>2,196,518</u>	<u>2,285,368</u>	<u>2,367,740</u>

For the year ended June 30, 2018, the Authority recognized OPEB expense of \$122,622.

Victor Valley Wastewater Reclamation Authority
Notes to the Financial Statements, continued
For the Fiscal Year Ended June 30, 2018

(11) Other Post-employment Benefits (OPEB) Plan, continued

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

At June 30, 2018, the Authority reported no deferred outflows of resources or deferred inflows of resources related to OPEB.

Schedule of Changes in the Authority's Total OPEB Liability and Related Ratios

See the Required Supplementary Schedule.

(12) Defined Benefit Pension Plan

Plan Description

All qualified permanent and probationary employees are eligible to participate in the Authority's separate Miscellaneous Employee Pension Plans, cost-sharing multiple employer defined benefit pension plans administered by the California Public Employees' Retirement System (CalPERS). Benefit provisions under the Plan are established by State statute and Local Government resolution. CalPERS issues publicly available reports that include a full description of the pension plan regarding benefit provisions, assumptions and membership information that can be found on the CalPERS website or may be obtained from their executive office: 400 P Street, Sacramento, CA, 95814.

Benefits Provided

CalPERS provides service 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 1957 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.

On September 12, 2012, the California Governor signed the California Public Employees' Pension Reform Act of 2013 (PEPRA) into law. PEPRA took effect January 1, 2013. The new legislation closed the Authority's CalPERS 2.5% at 55 Risk Pool Retirement Plan to new employee entrants, not previously employed by an agency under CalPERS, effective December 31, 2013. All employees hired after January 1, 2013 are eligible for the Authority's CalPERS 2.0% at 62 Retirement Plan under PEPRA.

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

	Miscellaneous Plan	
	Tier 1	Tier 2
	Prior to	On or after
Hire date	January 1, 2013	January 1, 2013
Benefit formula	2.5% @ 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 - 55	52 - 67
Monthly benefits, as a % of eligible compensation	2.0% to 2.5%	1.0% to 2.5%
Required employee contribution rates	7.946%	6.250%
Required employer contribution rates	9.539%	6.533%

Victor Valley Wastewater Reclamation Authority
Notes to the Financial Statements, continued
For the Fiscal Year Ended June 30, 2018

(12) Defined Benefit Pension Plan, continued

Benefits Provided, continued

Contributions

Section 20814(c) of the California Public Employees' Retirement Law requires that the employer contribution rates, for all public employers, be determined on an annual basis by the actuary and shall be effective on July 1st, of each fiscal year following notice of the change in rate. Funding contributions for the Plan 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 Authority is required to contribute the difference between the actuarially determined rate and the contribution rate of employees.

As of the fiscal year ended June 30, the contributions to the Authority's Plan were as follows:

		Miscellaneous Plan 2018
		<hr/>
Contributions – employer	\$	528,660
Contributions – employee (paid by employer)		<hr/> 51,957
Total employer paid contributions	\$	<hr/> <hr/> 580,617

Net Pension Liability

As of the fiscal year ended June 30, the Authority reported a net pension liability for its proportionate share of the net pension liability of the Plan was as follows:

		Proportionate Share of Net Pension Liability 2018
		<hr/>
Miscellaneous Plan	\$	<hr/> 5,750,574

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

The Authority's change in the proportionate share of the pension liability for the Plan as of the measurement date: June 30, 2017, was as follows:

<u>Proportion at Measurement Date</u>		<u>Miscellaneous Plan</u>
Proportion – June 30, 2016		0.05792%
Proportion – June 30, 2017		<hr/> 0.05799%
Change – Increase (Decrease)		<hr/> <hr/> 0.00007%

Victor Valley Wastewater Reclamation Authority
Notes to the Financial Statements, continued
For the Fiscal Year Ended June 30, 2018

(12) Defined Benefit Pension Plan, continued

As of June 30, 2018, the Authority recognized pension expense of \$989,426.

Deferred Pension Outflows (Inflows) of Resources

As of the fiscal year ended June 30, 2018, the Authority reported deferred outflows of resources and deferred inflows of resources related to pensions from the following sources:

<u>Description</u>	<u>Deferred Outflows of Resources</u>	<u>Deferred Inflows of Resources</u>
Pension contributions subsequent to the measurement date	\$ 528,660	-
Net differences between actual and expected experience	-	(89,437)
Net changes in assumptions	769,187	-
Net differences between projected and actual earnings on plan investments	188,318	-
Net differences between actual contribution and proportionate share of contribution	1,258	-
Net adjustment due to differences in proportions of net pension liability	<u>255,049</u>	<u>-</u>
Total	<u>\$ 1,742,472</u>	<u>(89,437)</u>

As of June 30, 2018, employer pension contributions of \$528,660, reported as deferred outflows of resources related to contributions subsequent to the measurement date were and will be recognized as a reduction of the net pension liability in the fiscal year ended June 30, 2019.

At June 30, 2018, the Authority recognized other amounts reported by the Plan actuarial as deferred outflows of resources and deferred inflows of resources related to the pension liability. Pension related amounts will be recognized as pension expense as follows.

<u>Fiscal Year Ending June 30:</u>	<u>Deferred Outflows/(Inflows) of Resources</u>
2019	\$ 403,981
2020	516,776
2021	336,853
2022	(133,235)
2023	-
Thereafter	-

Victor Valley Wastewater Reclamation Authority
Notes to the Financial Statements, continued
For the Fiscal Year Ended June 30, 2018

(12) Defined Benefit Pension Plan, continued

Actuarial Assumptions

The total pension liability in the June 30, 2017 actuarial valuation reports were determined using the following actuarial assumptions:

The following is a summary of the actuarial assumptions and methods:

Valuation date	June 30, 2016
Measurement date	June 30, 2017
Actuarial cost method	Entry Age Normal in accordance with the requirements of GASB Statement No. 68
 Actuarial assumptions:	
Discount rate	7.15%
Inflation	2.75%
Salary increases	Varies by Entry Age and Service
Investment Rate of Return	7.50 % Net of Pension Plan Investment and Administrative Expenses; includes inflation
Mortality Rate Table*	Derived using CalPERS' Membership Data for all Funds
Post Retirement Benefit	Contract COLA up to 2.75% until Purchasing Power Protection Allowance Floor on Purchasing Power applies, 2.75% thereafter

* 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 2014 Experience Study report. Further details of the Experience Study can be found on the CalPERS website.

Discount Rate

The discount rate used to measure the total pension liability was 7.15% for the Plan. To determine whether the municipal bond rate should be used in the calculation of a discount rate for the Plan, the amortization and smoothing periods recently adopted by CalPERS were utilized. The crossover test was performed for a miscellaneous agent plan and a safety agent plan selected as being more at risk of failing the crossover test and resulting in a discount rate that would be different from the long-term expected rate of return on pension investments.

Based on the testing of the plans, the tests revealed the assets would not run out. Therefore, the long-term expected rate of return on pension plan investments was applied to all periods of projected benefit payments to determine the total pension liability for the Plan.

The long-term expected rate of return on pension 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 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. Using historical returns of all the funds' asset classes, expected compound returns were calculated over the short-term (first 10 years) and the long-term (11-60 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 equivalent to the single equivalent rate calculated above and rounded down to the nearest one quarter of one percent.

Victor Valley Wastewater Reclamation Authority
Notes to the Financial Statements, continued
For the Fiscal Year Ended June 30, 2018

(12) Defined Benefit Pension Plan, continued

Discount Rate, continued

The table below reflects the 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.

<u>Asset Class</u>	<u>New Strategic Allocation</u>	<u>Real Return Years 1–10*</u>	<u>Real Return Year 11+**</u>
Global Equity	47.0%	4.90%	5.38%
Global Fixed Income	19.0%	0.80%	2.27%
Inflation Sensitive	6.0%	0.60%	1.39%
Private Equity	12.0%	6.60%	6.63%
Real Estate	11.0%	2.80%	5.21%
Infrastructure and Forestland	3.0%	3.90%	5.36%
Liquidity	2.0%	-0.40%	-0.90%
Total	<u>100.0%</u>		

* An expected inflation of 2.5% used for this period

** An expected inflation of 3.0% used for this period

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

The following table presents the Authority's proportionate share of the net position liability for the Plan, calculated using the discount rate, as well as what the Authority's proportional share of the net pension liability would be if it were calculated using a discount rate that is one percentage point lower or one percentage point higher than the current rate:

At June 30, 2018, the discount rate comparison was the following:

	<u>Discount Rate – 1% (6.15%)</u>	<u>Current Discount Rate (7.15%)</u>	<u>Discount Rate + 1% (8.15%)</u>
Authority's Net Pension Liability \$	<u>8,495,325</u>	<u>5,750,574</u>	<u>3,477,323</u>

Pension Plan Fiduciary Net Position

Detailed information about the pension plan's fiduciary net position is available in separately issued CalPERS financial reports. See the Required Supplementary Schedules.

Payable to the Pension Plan

At June 30, 2018, the Authority reported no payables for the outstanding amount of contribution to the pension plan.

Victor Valley Wastewater Reclamation Authority
Notes to the Financial Statements, continued
For the Fiscal Year Ended June 30, 2018

(13) Net Position

Calculation of net position as of June 30, was as follows:

	2018
Net investment in capital assets:	
Capital assets – not being depreciated	\$ 3,081,101
Capital assets, net – being depreciated	200,947,253
Loans payable	(87,756,167)
Total net investment in capital assets	116,272,187
Restricted net position:	
Restricted for debt service	5,285,091
Total restricted net position	5,285,091
Unrestricted net position:	
Non-spendable net position:	
Materials and supplies inventory	83,104
Prepaid expenses and deposits	121,705
Total non-spendable net position	204,809
Spendable net position are designated as follows:	
Undesignated net position reserve	5,726,319
Total spendable net position	5,726,319
Total unrestricted net position	5,931,128
Total net position	\$ 127,488,406

(14) Adjustment to Net Position

Other Post-employment Benefits (OPEB) – GASB 75 Implementation

In fiscal year 2018, the Authority implemented GASB pronouncements 75 to recognize its total other post-employment benefits (OPEB) liability. As a result of the implementation, the Authority recognized the OPEB liability and recorded a prior period adjustment, a decrease to net position, of \$2,257,004 at July 1, 2017. The Authority recorded a prior period adjustment, an increase to net position, to reclassify from liabilities to net position, the prior year's OPEB liability, recognized in accordance with GASB 45, of \$1,419,041 at July 1, 2017.

The adjustment to net position was as follows:

Net position at July 1, 2017, as previously stated	\$ 130,604,896
Effect of adjustment to record total other post-employment benefits liability	(2,257,004)
Effect of adjustment to remove other post-employment benefits liability under GASB 45	1,419,041
Net position at July 1, 2017, as restated	\$ 129,766,933

Victor Valley Wastewater Reclamation Authority
Notes to the Financial Statements, continued
For the Fiscal Year Ended June 30, 2018

(15) Risk Management

The Authority is exposed to various risks of loss related to torts; theft of, damage to, and destruction of assets; errors and omissions; injuries to employees; and natural disasters. The Authority is a member of the California Sanitation Risk Management Authority (CSRMA), an intergovernmental risk sharing joint powers authority currently operating as a common risk management and loss prevention program for 60 California Sanitation Authorities. The Authority pays an annual premium to CSRMA for its public liability and workers compensation risk coverage. The Agreement for formation of the CSRMA provides that CSRMA will be self-sustaining through member premiums and will provide specific excess insurance through commercial companies. The CSRMA is allowed to make additional assessments to its members based on a retrospective premium adjustment process.

At June 30, 2018, the Authority participated in the CSRMA programs as follows:

- General and automotive liability, including errors and omissions and employment practices liability (EPL): The Authority is insured through the CSRMA. Coverage includes excess liability applicable to the general and automobile liability section, excess layer of \$10,000,000 over the \$15,500,000 excess of the first \$500,000 insured layer with a \$5,000 deductible, \$2,500 deductible for errors and omissions, a \$25,000 deductible for EPL per occurrence, and a sewer backup deductible of \$10,000. Re-insurance is purchased above the \$500,000 layer to \$15,000,000 through CSRMA.
- Workers' compensation and employer's liability: The Authority is insured through the CSRMA up to \$750,000 with a deductible of \$0 per claim. The Authority purchased through CSRMA, additional excess workers' compensation coverage and excess employer's liability coverage of \$1,000,000 excess of the first \$750,000.

In addition, the Authority also has the following insurance coverage:

- Master Crime Policy up to \$2,000,000 per loss includes public employee dishonesty, forgery or alteration and theft, disappearance and destruction coverage with a deductible of \$2,500 per claim.
- Special form property coverage up to \$93,348,334, with a deductible of \$10,000 per claim.
- Mobile Vehicle Program coverage up to \$491,509, subject to a deductible of \$1,000 per claim and \$2,000 in total.
- Pollution and remediation legal liability coverage up to \$5,000,000 subject to a deductible of \$25,000 per claim.
- Public entity pollution liability coverage up to \$25,000,000, subject to \$2,000,000 per pollution condition, \$75,000 per pollution condition retention.
- Cyber liability coverage up to \$2,000,000, subject to \$2,000,000 per computer security, \$100,000 per pollution condition retention.
- Fraud Master Policy identity theft coverage up to \$25,000 with a \$0 deductible.

Settled claims have not exceeded any of the coverage amounts in any of the last three fiscal years and there were no reductions in the Authority's insurance coverage during the years ending June 30, 2018, 2017, and 2016. Liabilities are recorded when it is probable that a loss has been incurred and the amount of the loss can be reasonably estimated net of the respective insurance coverage. Liabilities include an amount for claims that have been incurred but not reported (IBNR). There were no IBNR claims payable as of June 30, 2018, 2017, and 2016.

Victor Valley Wastewater Reclamation Authority
Notes to the Financial Statements, continued
For the Fiscal Year Ended June 30, 2018

(16) Governmental Accounting Standards Board Statements Issued, Not Yet Effective

The Governmental Accounting Standards Board (GASB) has issued several pronouncements prior to June 30, 2018, that has effective dates that may impact future financial presentations.

Governmental Accounting Standards Board Statement No. 83

In November 2016, the GASB issued Statement No. 83 – *Certain Asset Retirement Obligations*. This Statement (1) addresses accounting and financial reporting for certain asset retirement obligations (AROs), (2) establishes criteria for determining the timing and pattern of recognition of a liability and a corresponding deferred outflow of resources for AROs, (3) requires that recognition occur when the liability is both incurred and reasonably estimable, (4) requires the measurement of an ARO to be based on the best estimate of the current value of outlays expected to be incurred, (5) requires the current value of a government's AROs to be adjusted for the effects of general inflation or deflation at least annually, and (6) and requires disclosure of information about the nature of a government's AROs, the methods and assumptions used for the estimates of the liabilities, and the estimated remaining useful life of the associated tangible capital assets.

The provisions of this Statement are effective for reporting periods beginning after June 15, 2018. The impact of the implementation of this Statement to the Authority's financial statements has not been assessed at this time.

Governmental Accounting Standards Board Statement No. 84

In January 2017, the GASB issued Statement No. 84 – *Fiduciary Activities*. The objective of this Statement is to improve guidance regarding the identification of fiduciary activities for accounting and financial reporting purposes and how those activities should be reported.

This Statement establishes criteria for identifying fiduciary activities of all state and local governments. The focus of the criteria generally is on (1) whether a government is controlling the assets of the fiduciary activity and (2) the beneficiaries with whom a fiduciary relationship exists. Separate criteria are included to identify fiduciary component units and postemployment benefit arrangements that are fiduciary activities.

This Statement describes four fiduciary funds that should be reported, if applicable: (1) pension (and other employee benefit) trust funds, (2) investment trust funds, (3) private-purpose trust funds, and (4) custodial funds. Custodial funds generally should report fiduciary activities that are not held in a trust or equivalent arrangement that meets specific criteria.

The provisions of this Statement are effective for reporting periods beginning after December 15, 2018. The impact of the implementation of this Statement to the Authority's financial statements has not been assessed at this time.

Governmental Accounting Standards Board Statement No. 86

In May 2017, the GASB issued Statement No. 86 – *Certain Debt Extinguishment Issues*. The primary objective of this Statement is to improve consistency in accounting and financial reporting for in-substance defeasance of debt by providing guidance for transactions in which cash and other monetary assets acquired with only existing resources—resources other than the proceeds of refunding debt—are placed in an irrevocable trust for the sole purpose of extinguishing debt. This Statement also improves accounting and financial reporting for prepaid insurance on debt that is extinguished and notes to financial statements for debt that is defeased in substance.

The provisions of this Statement are effective for reporting periods beginning after June 15, 2017. Earlier application is encouraged. The impact of the implementation of this Statement to the Authority's financial statements has not been assessed at this time.

Victor Valley Wastewater Reclamation Authority
Notes to the Financial Statements, continued
For the Fiscal Year Ended June 30, 2018

(16) Governmental Accounting Standards Board Statements Issued, Not Yet Effective

Governmental Accounting Standards Board 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. This Statement increases the usefulness of governments’ financial statements by requiring recognition of certain lease assets and liabilities for leases that previously were classified as operating leases and recognized as inflows of resources or outflows of resources based on the payment provisions of the contract. It establishes a single model for lease accounting based on the foundational principle that leases are financings of the right to use an underlying asset. Under this Statement, a lessee is required to recognize a lease liability and an intangible right-to-use lease asset, and a lessor is required to recognize a lease receivable and a deferred inflow of resources, thereby enhancing the relevance and consistency of information about governments’ leasing activities.

The provisions of this Statement are effective for reporting periods beginning after December 15, 2019. Earlier application is encouraged. The impact of the implementation of this Statement to the Authority’s financial statements has not been assessed at this time.

Governmental Accounting Standards Board Statement No. 88

In April 2018, the GASB issued Statement No. 88 – *Certain Disclosures Related to Debt, including Direct Borrowings and Direct Placements*. The 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.

This Statement defines debt for purposes of disclosure in notes to financial statements as a liability that arises from a contractual obligation to pay cash (or other assets that may be used in lieu of cash) in one or more payments to settle an amount that is fixed at the date the contractual obligation is established.

This Statement requires that additional essential information related to debt be disclosed in notes to financial statements, including unused lines of credit; assets pledged as collateral for the debt; and terms specified in debt agreements related to significant events of default with finance-related consequences, significant termination events with finance-related consequences, and significant subjective acceleration clauses.

For notes to financial statements related to debt, this Statement also requires that existing and additional information be provided for direct borrowings and direct placements of debt separately from other debt.

The requirements of this Statement are effective for reporting periods beginning after June 15, 2018. Earlier application is encouraged. The impact of the implementation of this Statement to the Authority’s financial statements has not been assessed at this time.

Governmental Accounting Standards Board Statement No. 90

In August 2018, the GASB issued Statement No. 90 – *Majority Equity Interests—an amendment of GASB Statements No. 14 and No. 61*. The primary 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. It defines a majority equity interest and specifies that a majority equity interest in a legally separate organization should be reported as an investment if a government’s holding of the equity interest meets the definition of an investment. A majority equity interest that meets the definition of an investment should be measured using the equity method, unless it is held by a special-purpose government engaged only in fiduciary activities, a fiduciary fund, or an endowment (including permanent and term endowments) or permanent fund. Those governments and funds should measure the majority equity interest at fair value.

Victor Valley Wastewater Reclamation Authority
Notes to the Financial Statements, continued
For the Fiscal Year Ended June 30, 2018

(16) Governmental Accounting Standards Board Statements Issued, Not Yet Effective

Governmental Accounting Standards Board Statement No. 90, continued

For all other holdings of a majority equity interest in a legally separate organization, a government should report the legally separate organization as a component unit, and the government or fund that holds the equity interest should report an asset related to the majority equity interest using the equity method. This Statement establishes that ownership of a majority equity interest in a legally separate organization results in the government being financially accountable for the legally separate organization and, therefore, the government should report that organization as a component unit.

This Statement also requires that a component unit in which a government has a 100 percent equity interest account for its assets, deferred outflows of resources, liabilities, and deferred inflows of resources at acquisition value at the date the government acquired a 100 percent equity interest in the component unit. Transactions presented in flows statements of the component unit in that circumstance should include only transactions that occurred subsequent to the acquisition.

The requirements of this Statement are effective for reporting periods beginning after December 15, 2018. Earlier application is encouraged. The requirements should be applied retroactively, except for the provisions related to (1) reporting a majority equity interest in a component unit and (2) reporting a component unit if the government acquires a 100 percent equity interest. Those provisions should be applied on a prospective basis. The impact of the implementation of this Statement to the Authority's financial statements has not been assessed at this time.

(17) Commitments and Contingencies

Grant Awards

Grant funds received by the Authority are subject to audit by the grantor agencies. Such audit could lead to requests for reimbursements to the grantor agencies for expenditures disallowed under terms of the grant. Management of the Authority believes that such disallowances, if any, would not be significant.

Construction Contracts

The Authority has a variety of agreements with developers and private parties relating to the installation, improvement or modification of facilities and distribution systems within its service areas. The financing of such improvements is provided primarily from loans for construction and the Authority's capital replacement reserve. The Authority has committed to approximately \$239,400 of open construction contracts as of June 30, 2018.

Biogas Power Generation and Services Agreement

On March 25, 2013, the Authority entered into an agreement with Anaergia Services, LLC to provide a biogas energy generation services facility at the Authority's wastewater treatment and reclamation plant facility. The purpose of the converted biogas is to provide electrical energy for use in plant operations. Anaergia has constructed the Biogas Facility and Ancillary Facilities at its sole cost and expense. Excess energy can be delivered by the Authority to the grid. The term of the agreement is 20 years from the operation date of July 1, 2015, and matures on June 30, 2035. The Authority will purchase all energy output from Anaergia at a fixed cost of \$734,000 per year, payable in monthly installments of \$61,167. At June 30, 2018, the future minimum remaining commitment amounted to \$12,478,000.

Litigation

In the ordinary course of operations, the Authority is subject to claims and litigation from outside parties.

Victor Valley Wastewater Reclamation Authority
Notes to the Financial Statements, continued
For the Fiscal Year Ended June 30, 2018

(17) Commitments and Contingencies

Other Items

During the year ended June 30, 2016, the Office of Inspector General, Office of Emergency Management Oversight, U.S. Department of Homeland Security, conducted an audit on funding provided by the Federal Emergency Management Agency (FEMA) passed through the California Office of Emergency Services (Cal OES), for the replacement the Upper Narrows interceptor line (Project) which was lost during an historic flood. In 2016, and then again in April 2017, the OIG, prepared two draft reports to FEMA regarding the funding of the project. The OIG report issued in April 2017, questioned whether the Project was a “replacement” or new construction. The OIG suggested that the Project was not a replacement because the interceptor line, which had originally been located in the Mojave River, was now placed in a tunnel used to cross the Mojave River. The OIG concluded that tunneling was its reasoning for excessive costs. The OIG has suggested that FEMA claw back expended project costs exceeding \$33 million. The Authority has responded to the OIG draft reports and is awaiting a response. As of date of this report, FEMA has not responded to the OIG’s report. Management believes that the Authority will prevail; however, a negative determination would have a serious fiscal impact on the Authority.

Funding Future Obligations

The Authority expects to continue as a going concern through the fiscal year-end 2018. However, certain pertinent conditions and events have given rise to the assessment of doubt about the Authority’s ability to continue as a going concern for a reasonable period of time thereafter. At June 30, 2017, the Authority faces several issues that could, if unmitigated, negatively impact the Authority’s revenue and necessary cash flows to fund ongoing operations and to service the debt obligations authorized by the governing Members of the Authority. Among the issues are: 1) the current diversion of wastewater flows by the City of Victorville; 2) the City of Hesperia’s late payment for wastewater flows and connection fees, and; 3) the pending determination by the Federal Emergency Management Agency (FEMA) to “claw back” grant awards as recommended in a draft report issued by the Office of the Inspector General’s Office. The Board of Commissioners and management believe that each of these matters individually and in the aggregate would negatively affect operations and effectively cause the Authority to default on servicing debt obligations in accordance with contractual agreements during fiscal year 2019.

The Authority’s plan to mitigate these issues are as follows: 1) the Member Entities are in mediation to resolve the wastewater flow dispute and all parties are seeking resolution; 2) the outstanding balance owed to the Authority by the City of Hesperia is expected to be collected in full based on the terms of the Joint Powers Agreement; 3) the Authority anticipates a positive determination by FEMA with regard to grant awards to the Authority.

(18) Related Party

City of Victorville

In April of 2016, the City of Victorville informed the Authority of their intent to withdraw from the Service Agreement per the 30-year notice requirement.

The Board of Commissioners has engaged a judicial review on the issue of the City’s flow diversion for the purpose of rendering a non-binding opinion. Management has determined that the flow diversion will have a negative impact on the Authority’s operations and cash flows.

Victor Valley Wastewater Reclamation Authority
Notes to the Financial Statements, continued
For the Fiscal Year Ended June 30, 2018

(18) Related Party, continued

City of Hesperia

During the fiscal year ended June 30, 2018, the Authority has amounts due and receivable for user charges and connection fees amounting to \$2,029,035 which were past-due from the City of Hesperia (City). On August 8, 2017, the Authority was notified by the City that it has retained the payment over specific concerns pertaining to: 1) increasing rates which the City believes are due to financial problems related to member actions, 2) concerns over the timing of completion and operation of the Hesperia sub-regional water reclamation plant, in which revenues from the plant will be required to service the related State Revolving Loan, and 3) disagreement with the Authority's Board of Commissioners in resolving a diversion of flow matter from a member agency. Management believes that continued withholding of amounts due to the Authority will have a negative impact on operations and cash flows.

The Authority is attempting to collect the remaining balance due.

(19) Subsequent Events

Management is not aware of any events or transactions, including estimates that provide additional evidence about conditions that existed at June 30, 2018, or arose subsequent to that date and are considered inherent in the process of preparing these financial statements.

Required Supplementary Information

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Victor Valley Wastewater Reclamation Authority
Schedule of Changes in the Total OPEB Liability and Related Ratios
As of June 30, 2018
Last Ten Years*

		<u>2018</u>
Total OPEB Liability		
Service cost	\$	37,946
Interest		84,676
Employer contributions		(94,258)
Employee contributions		-
Actual investment income		-
Administrative expenses		-
Net change in total OPEB liability		28,364
Total OPEB liability – beginning		<u>2,257,004</u>
Total OPEB liability – ending	\$	<u>2,285,368</u>
Covered payroll	\$	<u>3,004,335</u>
Total OPEB liability as a percentage of covered payroll		<u>76.07%</u>

Notes:

* Historical information presented above follows the measurement periods for which GASB 75 was applicable. The fiscal year ended June 30, 2018, (valuation date of June 30, 2018) was the first year of implementation required by GASB 75; therefore only one year is shown.

Victor Valley Wastewater Reclamation Authority
Schedules of the Proportionate Share of the Net Pension Liability
As of June 30, 2018
Last Ten Years*

<u>Description</u>	<u>Measurement Date 6/30/2017</u>	<u>Measurement Date 6/30/2016</u>	<u>Measurement Date 6/30/2015</u>	<u>Measurement Date 6/30/2014</u>
Authority's Proportion of the Net Pension Liability	0.05799%	0.05792%	0.06074%	0.05341%
Authority's Proportionate Share of the Net Pension Liability	\$ 5,750,574	5,011,624	4,169,063	3,323,316
Authority's Covered Payroll	\$ 3,397,714	3,004,335	3,004,402	2,945,462
Authority's Proportionate Share of the Net Pension Liability as a Percentage of its Covered Payroll	169.25%	166.81%	138.77%	112.83%
Plan's Fiduciary Net Position as a Percentage of the Plan's Total Pension Liability	71.18%	71.30%	75.01%	79.19%

Notes:

Changes in Benefit Terms – For the measurement date June 30, 2017, there were no changes in the benefit terms.

Changes of Assumptions – For the measurement date June 30, 2017, the discount rate was reduced from 7.65% percent to 7.15% percent.

* Historical information presented above follows the measurement periods for which GASB 68 & 71 were applicable. The fiscal year ended June 30, 2015, was the first year of implementation required by GASB 68 & 71, therefore only four years are shown.

Victor Valley Wastewater Reclamation Authority
Schedules of Pension Plan Contributions
As of June 30, 2018
Last Ten Years*

<u>Schedule of Pension Plan Contributions:</u>	<u>Fiscal Year</u> <u>6/30/2018</u>	<u>Fiscal Year</u> <u>6/30/2017</u>	<u>Fiscal Year</u> <u>6/30/2016</u>	<u>Fiscal Year</u> <u>6/30/2015</u>
Actuarially Determined Contribution	\$ 589,365	\$ 561,105	507,931	\$ 464,069
Contribution's in Relation to the Actuarially Determined Contribution	<u>(528,660)</u>	<u>(503,376)</u>	<u>(503,175)</u>	<u>(464,069)</u>
Contribution Deficiency (Excess)	\$ 60,705	\$ 57,729	4,756	\$ -
Covered Payroll	\$ <u>3,397,714</u>	\$ <u>3,004,335</u>	<u>3,004,402</u>	\$ <u>2,945,462</u>
Contribution's as a percentage of Covered Payroll	<u>17.35%</u>	<u>18.68%</u>	<u>16.91%</u>	<u>15.76%</u>

Notes:

* Historical information presented above follows the measurement periods for which GASB 68 & 71 were applicable. The fiscal year ended June 30, 2015, was the first year of implementation required by GASB 68 & 71; therefore only four years are shown.

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Supplemental Information

**Victor Valley Wastewater Reclamation Authority
Schedule of Operating Expenses
For the Year Ended June 30, 2018**

	<u>2018</u>
Salaries and benefits:	
Salaries	\$ 3,067,516
Employee benefits	<u>1,746,363</u>
Total salaries and benefits	<u>4,813,879</u>
Maintenance:	
Equipment and supplies	878,988
Instrumentation	192,802
Tools	36,043
Ground repairs and maintenance	180,448
Vehicle repairs and maintenance	126,984
Sewer repairs and maintenance	41,511
Other	<u>198,015</u>
Total Maintenance	<u>1,654,791</u>
Operations:	
Process chemicals	311,566
Utilities	1,576,574
Trash and sludge disposal	142,565
Fuel and lubricants	104,137
Lab supplies and services	406,935
Safety equipment	46,939
Custodial	39,982
Equipment rental	173,995
Uniforms	21,141
Security	27,449
Sewer location services	<u>25,886</u>
Total operations	<u>\$ 2,877,169</u>

Continued on next page

Victor Valley Wastewater Reclamation Authority
Schedule of Operating Expenses, continued
For the Year Ended June 30, 2018

	2018
Administration:	
Telephone and communications	\$ 106,658
Computers and office equipment	98,753
Computer and office supplies	9,272
Printing and advertising	19,513
Postage and freight	13,269
Travel and education	174,007
Membership and commissioner fees	63,517
Books and periodicals	21,695
Professional services	367,689
Legal services	543,662
Temporary labor	43,393
Insurance	127,625
Permit fees	128,809
Rent	45,256
Construction services	17,571
Other	2,565
Total administration	1,783,254
Total operating expenses	11,129,093
Depreciation	9,226,174
Total operating expense including depreciation expense	\$ 20,355,267

Victor Valley Wastewater Reclamation Authority
Combining Schedule of Revenues and Expenses
For the Year Ended June 30, 2018

	<u>Operations and Maintenance</u>	<u>Repairs and Replacements</u>	<u>Capital Outlay</u>	<u>Total</u>
Operating revenues:				
Wastewater service charges	\$ 13,463,583	247,500	-	13,711,083
Septage receiving facility fees	621,154	-	-	621,154
ADM-FOG tipping fees	311,600	-	-	311,600
Pretreatment permit fees	52,700	-	-	52,700
Total operating revenues	<u>14,449,037</u>	<u>247,500</u>	<u>-</u>	<u>14,696,537</u>
Operating expenses:				
Salaries and benefits	4,813,879	-	-	4,813,879
Maintenance	1,596,945	57,846	-	1,654,791
Operations	2,775,629	101,540	-	2,877,169
General and administration	1,783,254	-	-	1,783,254
Total operating expense	<u>10,969,707</u>	<u>159,386</u>	<u>-</u>	<u>11,129,093</u>
Operating income (loss) before depreciation expense	3,479,330	88,114	-	3,567,444
Depreciation	(9,226,174)	-	-	(9,226,174)
Operating loss	<u>(5,746,844)</u>	<u>88,114</u>	<u>-</u>	<u>(5,658,730)</u>
Non-operating revenue (expense):				
Investment earnings	1,061	-	64,747	65,808
Interest expense	(1,104,556)	-	(662,075)	(1,766,631)
Other, net	380	-	1,344	1,724
Capital contribution to local government	(170,804)	-	-	(170,804)
Total non-operating expense, net	<u>(1,273,919)</u>	<u>-</u>	<u>(595,984)</u>	<u>(1,869,903)</u>
Net loss before capital contributions	<u>(7,020,763)</u>	<u>88,114</u>	<u>(595,984)</u>	<u>(7,528,633)</u>
Capital contributions:				
Capital grants – Title 16	10,367	-	6,627	16,994
Capital grants – State of California	559,205	-	357,524	916,729
Capital grants – Water Recycling Grant	269,863	-	172,536	442,399
Capital grants – Other agency	-	-	991,745	991,745
Connection fees	-	-	2,882,239	2,882,239
Total contributed capital	<u>839,435</u>	<u>-</u>	<u>4,410,671</u>	<u>5,250,106</u>
Change in net position	<u>\$ (6,181,328)</u>	<u>88,114</u>	<u>3,814,687</u>	<u>(2,278,527)</u>

See accompanying notes to the basic financial statements

Report on Internal Controls and Compliance

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Independent Auditor's Report on Internal Control Over Financial Reporting And on Compliance and Other Matters Based on an Audit of Financial Statements Performed in Accordance with *Government Auditing Standards*

Board of Commissioners
Victor Valley Wastewater Reclamation Authority
Hesperia, California

We have audited, in accordance with the auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in Government Auditing Standards issued by the Comptroller General of the United States, the financial statements of the Victor Valley Wastewater Reclamation Authority (Authority) as of and for the year ended June 30, 2018, and the related notes to the financial statements, which collectively comprise the Authority's basic financial statements, and have issued our report thereon dated December 20, 2018.

Internal Control Over Financial Reporting

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

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

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

Compliance and Other Matters

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

**Independent Auditor's Report on Internal Controls Over Financial Reporting
And on Compliance and Other Matters Based on an Audit of Financial Statements
Performed in Accordance with *Government Auditing Standards*, (continued)**

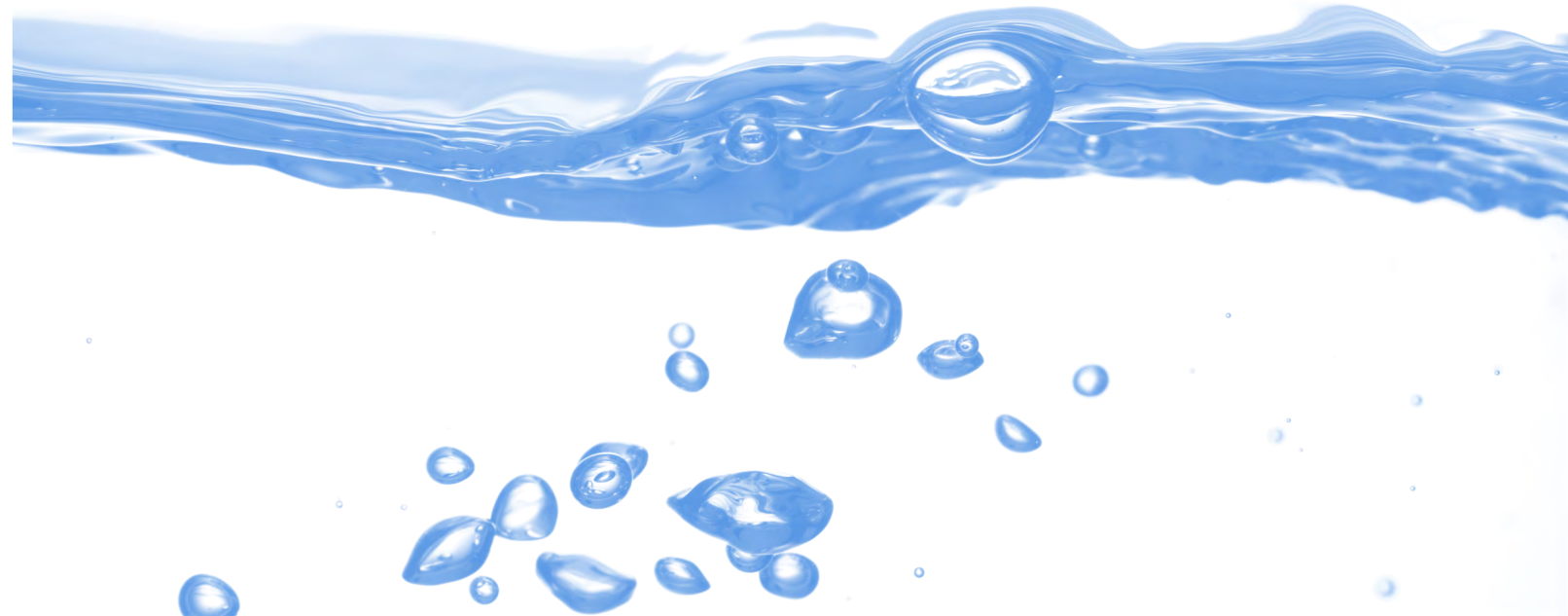
Purpose of this Report

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

Fedak & Brown LLP

Fedak & Brown LLP
Cypress, California
December 20, 2018

Statistical Section



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Victor Valley Wastewater Reclamation Authority

Statistical Section Table of Contents

This part of Authority’s comprehensive annual financial report presents detailed information as a context for understanding what the information in the accompanying financial statements and notes to the financial statements say about the Authority’s overall financial health.

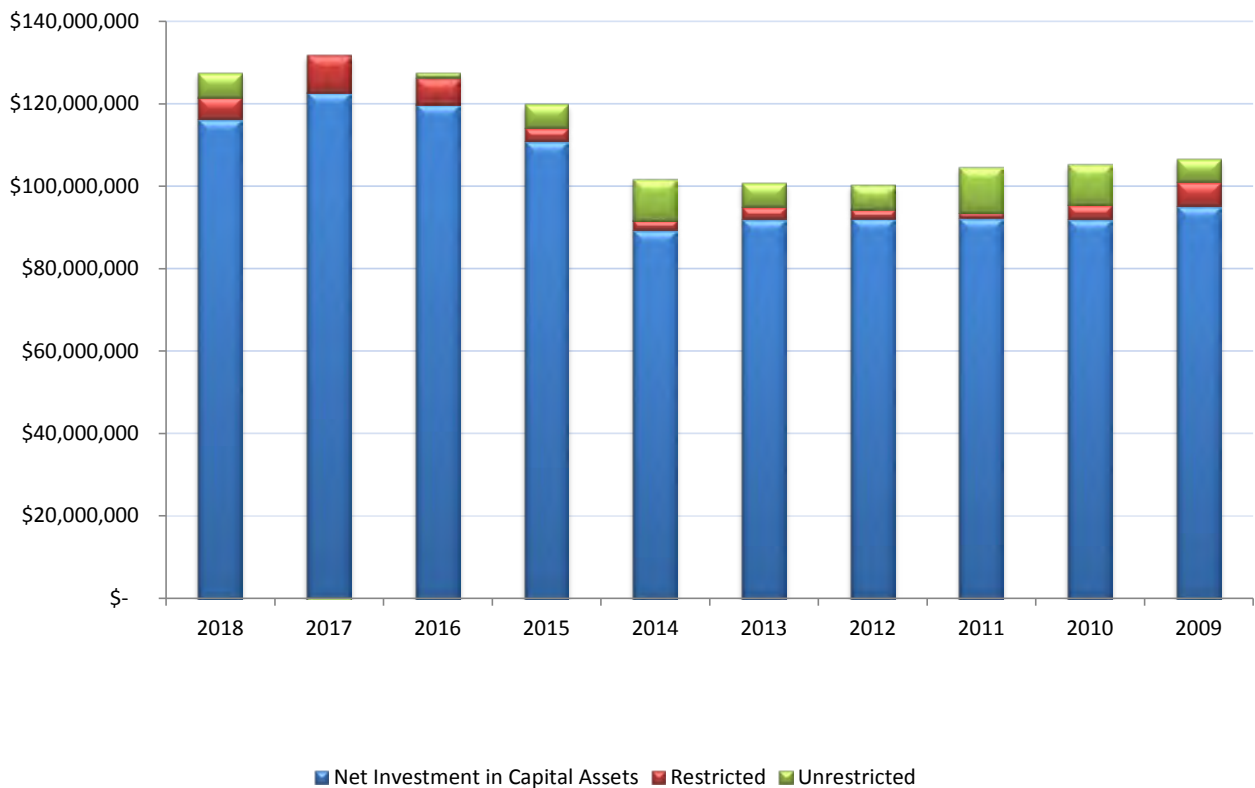
	<u>Page No.</u>
Financial Trends These schedules contain information to help the reader understand how the Authority’s financial performance and well-being have changed over time.	58 – 59
Revenue Capacity These schedules contain information to help the reader assess the factors affecting the Authority’s ability to generate revenues.	60 – 65
Debt Capacity These schedules present information to help the reader assess the affordability of the Authority’s current levels of outstanding debt and the Authority’s ability to issue additional debts in the future.	66 – 67
Demographic and Economic Information These schedules offer demographic and economic indicators to help the reader understand the environment within which the Authority’s financial activities take place and to help make comparisons over time and with other agencies.	68 – 69
Operating Information These schedules contain information about the Authority’s operations and resources to help the reader understand how the Authority’s financial information relates to the services the Authority provides and the activities it performs.	70 – 79

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Victor Valley Wastewater Reclamation Authority
Net Position by Component
Last Ten Fiscal Years

June 30	2018	2017	2016	2015	2014
Net Investment in Capital Assets	\$ 116,272,187	\$ 122,731,832	\$ 119,848,757	\$ 110,982,384	\$ 89,340,144
Restricted	5,285,091	9,004,801	6,367,601	3,150,314	2,322,650
Unrestricted	5,931,128	(1,131,737)	1,295,274	5,692,256	10,061,819
Total Net Position	\$ 127,488,406	\$ 130,604,896	\$ 127,511,632	\$ 119,824,954	\$ 101,724,613

June 30	2013	2012	2011	2010	2009
Net Investment in Capital Assets	\$ 92,011,190	\$ 92,132,472	\$ 92,316,194	\$ 92,011,371	\$ 95,268,279
Restricted	2,961,518	2,147,445	1,166,446	3,455,773	5,791,448
Unrestricted	5,729,404	5,936,342	11,190,359	9,802,016	5,465,649
Total Net Position	\$ 100,702,112	\$ 100,216,259	\$ 104,672,999	\$ 105,269,160	\$ 106,525,376

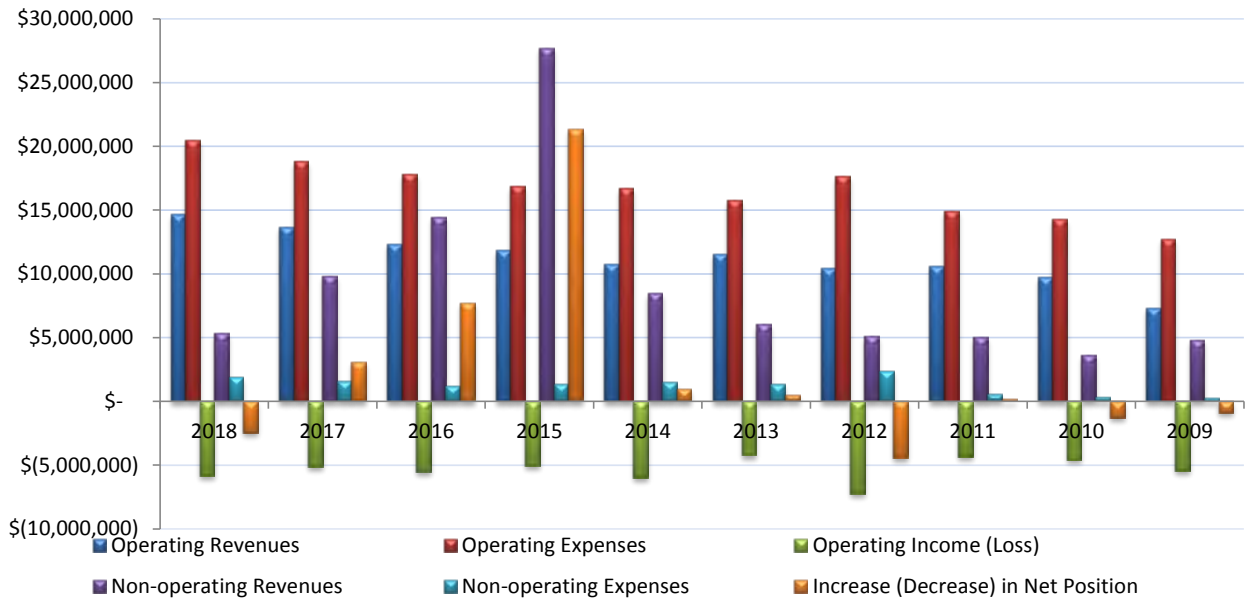


Source: Victor Valley Wastewater Reclamation Authority

Victor Valley Wastewater Reclamation Authority
Changes in Net Position
Last Ten Fiscal Years

June 30	2018	2017	2016	2015	2014
Operating Revenues	\$ 14,696,537	\$ 13,655,631	\$ 12,305,439	\$ 11,850,841	\$ 10,744,312
Operating Expenses	20,505,267	18,804,718	17,820,239	16,901,749	16,703,301
Operating Income (Loss)	(5,808,730)	(5,149,087)	(5,514,800)	(5,050,908)	(5,958,989)
Non-operating Revenues	5,317,638	9,797,819	14,416,430	27,703,303	8,482,186
Non-operating Expenses	1,937,435	1,555,468	1,214,952	1,335,646	1,535,497
Increase (Decrease) in Net Position	\$ (2,428,527)	\$ 3,093,264	\$ 7,686,678	\$ 21,316,749	\$ 987,700

June 30	2013	2012	2011	2010	2009
Operating Revenues	\$ 11,526,052	\$ 10,469,338	\$ 10,616,850	\$ 9,715,020	\$ 7,313,826
Operating Expenses	15,738,220	17,677,977	14,933,992	14,302,713	12,725,823
Operating Income (Loss)	(4,212,168)	(7,208,639)	(4,317,142)	(4,587,693)	(5,411,997)
Non-operating Revenues	6,054,793	5,141,787	5,041,540	3,636,256	4,787,060
Non-operating Expenses	1,356,772	2,389,888	572,285	304,779	277,858
Increase (Decrease) in Net Position	\$ 485,853	\$ (4,456,740)	\$ 152,113	\$ (1,256,216)	\$ (902,795)



Source: Victor Valley Wastewater Reclamation Authority

VICTOR VALLEY WASTEWATER RECLAMATION AUTHORITY
Revenues by Source
Last Ten Fiscal Years

Operating Revenues					
June 30	Service Charges	Septage Receiving Facility Fees	ADM-FOG Tipping Fees	Pretreatment Permit Fees	Total Operating Revenues
2018	\$ 13,711,083	\$ 621,154	\$ 311,600	\$ 52,700	\$ 14,696,537
2017	12,719,827	649,362	234,160	52,282	13,655,631
2016	11,645,881	604,958	-	54,600	12,305,439
2015	11,260,317	538,367	-	52,157	11,850,841
2014	10,695,640	390,682	-	48,672	11,134,994
2013	11,480,756	190,261	-	45,296	11,716,313
2012	10,422,738	197,688	-	46,600	10,667,026
2011	10,570,050	256,828	-	46,800	10,873,678
2010	9,665,620	279,947	-	49,400	9,994,967
2009	7,265,926	221,227	-	47,900	7,535,053

Non-Operating Revenues										
June 30	Connection Fees	Other Non-Operating Revenues	FEMA Reimbursement *	Title 16 Grant	Proposition 1 Grant	Proposition 84 Grant	Water Recycling Grant	CEC Grant	Loan Forgiveness	Total Non-Operating Revenues
2018	\$ 2,882,239	\$ 67,532	\$ -	\$ 16,994	\$ 916,729	\$ -	\$ 442,399	\$ 991,745	\$ -	\$ 5,317,638
2017	2,951,667	78,595	978,766	-	3,844,476	-	1,808,434	135,881	-	9,797,819
2016	1,146,089	69,906	2,396,510	1,899,930	4,189,343	3,000,000	1,714,652	-	-	14,416,430
2015	1,387,175	107,030	24,544,825	1,637,192	-	-	27,081	-	-	27,703,303
2014	1,524,577	204,545	6,256,569	105,813	-	-	-	-	-	8,091,504
2013	1,620,728	74,852	1,047,586	121,366	-	-	-	-	3,000,000	5,864,532
2012	2,012,423	160,348	1,685,630	1,085,698	-	-	-	-	-	4,944,099
2011	2,205,637	134,276	2,444,799	-	-	-	-	-	-	4,784,712
2010	3,166,772	189,537	-	-	-	-	-	-	-	3,356,309
2009	4,138,678	427,155	-	-	-	-	-	-	-	4,565,833

Total Revenues			
June 30	Total Operating Revenues	Total Non-Operating Revenues	Total Revenues
2018	\$ 14,696,537	\$ 5,317,638	\$ 20,014,175
2017	13,655,631	9,797,819	23,453,450
2016	12,305,439	14,416,430	26,721,869
2015	11,850,841	27,703,303	39,554,144
2014	11,134,994	8,091,504	19,226,498
2013	11,716,313	5,864,532	17,580,845
2012	10,667,026	4,944,099	15,611,125
2011	10,873,678	4,784,712	15,658,390
2010	9,994,967	3,356,309	13,351,276
2009	7,535,053	4,565,833	12,100,886

*VWVRA will be reimbursed 93.75% of the extraordinary expenses incurred during FY 16-17 through FEMA and Cal EMA.
Source: Victor Valley Wastewater Reclamation Authority's Statements of Revenues, Expenses and Changes in Net Position

VICTOR VALLEY WASTEWATER RECLAMATION AUTHORITY
Expenses by Function
Last Ten Fiscal Years

	Operating Expenses						Total Non-Operating Expenses	Combined Expenses
June 30	Personnel	Maintenance	Operations	Administration	Depreciation	Total Operating Expenses		
2018	\$ 4,813,879	\$ 1,654,791	\$ 2,877,169	\$ 1,783,254	\$ 9,226,174	\$ 20,355,267	\$ 1,937,435	\$ 22,292,702
2017	4,435,790	1,936,625	2,444,093	2,087,840	7,900,370	18,804,718	1,555,468	20,360,186
2016	5,090,845	1,892,127	2,359,892	1,831,796	6,645,579	17,820,239	1,214,952	19,035,191
2015	4,610,511	1,902,719	1,865,289	1,734,702	6,788,528	16,901,749	1,335,646 *	18,237,395
2014	4,475,438	1,647,896	2,183,544	1,784,021	6,612,402	16,703,301	1,535,497 *	18,238,798
2013	4,386,713	1,377,024	2,169,317	2,044,400	5,760,766	15,738,220	1,356,772	17,094,992
2012	4,398,077	3,041,988	2,828,368	1,788,697	5,620,847	17,677,977	2,389,888	20,067,865
2011	4,356,129	883,688	2,521,414	1,498,077	5,674,684	14,933,992	572,285	15,506,277
2010	4,596,477	652,862	2,023,628	1,365,467	5,664,279	14,302,713	304,779	14,607,492
2009	4,474,015	732,973	1,875,436	1,181,150	4,462,249	12,725,823	277,858	13,003,681

*Per prior year adjustment

Source: Victor Valley Wastewater Reclamation Authority's Statements of Revenues, Expenses and Changes in Net Position

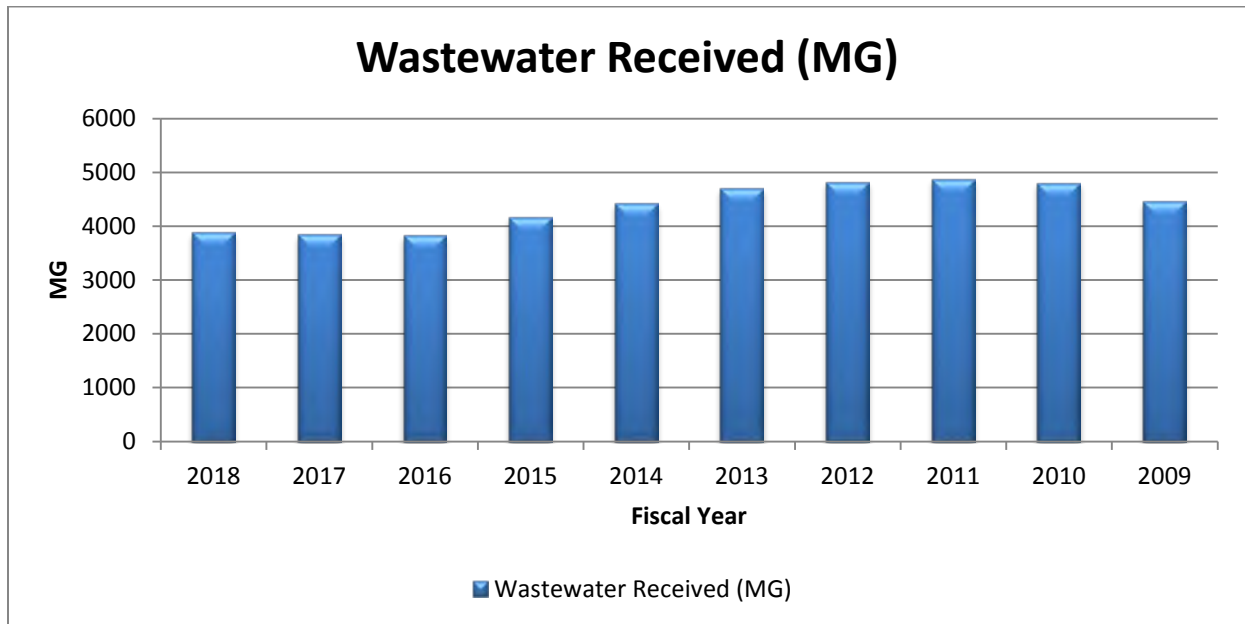
Victor Valley Wastewater Reclamation Authority

Revenue Base

Last Ten Fiscal Years

June 30	Wastewater Received (MG)*
2018	3,888
2017	3,845
2016	3,834
2015	4,171
2014	4,423
2013	4,704
2012	4,821
2011	4,881
2010	4,805
2009	4,465

*MG = Million Gallons



Source: Victor Valley Wastewater Reclamation Authority

Victor Valley Wastewater Reclamation Authority

Principal Customers

Last Ten Fiscal Years

June 30	2018		2017		2016	
	Wastewater Received (MG)*	Percentage of Total	Wastewater Received (MG)*	Percentage of Total	Wastewater Received (MG)	Percentage of Total
San Bernardino County	222	5.7%	220	5.7%	219	5.7%
Apple Valley	651	16.8%	645	16.8%	644	16.8%
Hesperia	701	18.1%	695	18.1%	694	18.1%
Victorville	2,304	59.4%	2,285	59.4%	2,277	59.4%
Principal Customers Total	3,878	100.0%	3,845	100.0%	3834	100.0%
Total Water Received	3,878	100.0%	3,845	100.0%	3834	100.0%

June 30	2015		2014		2013	
	Wastewater Received (MG)	Percentage of Total	Wastewater Received (MG)	Percentage of Total	Wastewater Received (MG)	Percentage of Total
San Bernardino County	233	5.6%	287	6.5%	306	6.5%
Apple Valley	672	16.1%	611	13.8%	650	13.8%
Hesperia	697	16.7%	752	17.0%	799	17.0%
Victorville	2,569	61.6%	2,576	58.2%	2,739	58.2%
Principal Customers Total	4,171	100.0%	4,226	95.5%	4,494	95.5%
Total Water Received	4,171	100.0%	4,423	100.0%	4,704	100.0%

Victor Valley Wastewater Reclamation Authority

Principal Customers

Last Ten Fiscal Years

June 30	2012		2011		2010	
	Wastewater Received (MG)	Percentage of Total	Wastewater Received (MG)	Percentage of Total	Wastewater Received (MG)	Percentage of Total
San Bernardino County	528	11.0%	322	6.6%	290	6.3%
Apple Valley	666	13.8%	692	14.2%	719	15.6%
Hesperia	819	17.0%	818	16.8%	608	13.2%
Victorville	2,808	58.2%	3,049	62.4%	2,990	64.9%
Principal Customers Total	4,821	100.0%	4,881	100.0%	4,607	100.0%
Total Water Received	4,821	100.0%	4,881	100.0%	4,805	95.9%

June 30	2009	
	Wastewater Received (MG)	Percentage of Total
San Bernardino County	280	6.3%
Apple Valley	698	15.6%
Hesperia	588	13.2%
Victorville	2,899	64.9%
Principal Customers Total	4,465	100.0%
Total Water Received	4,465	100.0%

*MG=Million Gallons

Source: Victor Valley Wastewater Reclamation Authority

Victor Valley Wastewater Reclamation Authority

Revenue Rate

Last Ten Fiscal Years

June 30	Service Charges (\$/MG)*	Connection Fees (\$/EDU)**
2018	\$3,503	\$4,000
2017	3,274	4,000
2016	3,004	4,000
2015	2,756	4,000
2014	2,528	3,750
2013	2,528	3,750
2012	2,200	3,750
2011	2,200	3,750
2010	2,100	3,750
2009	1,614	3,215

*MG = Million Gallons

**EDU = Equivalent Dwelling Unit (245 gallons/day or 20 fixture units)

Source: Victor Valley Wastewater Reclamation Authority

High Strength Surcharge Rates (\$/LB)			
June 30	BOD	TSS	NH3
2018	\$0.3323	\$0.2262	\$3.9800
2017	0.3679	0.2124	3.5430
2016	0.2701	0.2333	2.6887
2015	0.2989	0.2336	2.9252
2014	0.2318	0.2057	2.9118
2013	0.3231	0.1842	3.2876
2012	0.2812	0.1603	2.8611
2011	0.2671	0.1520	3.0159
2010	0.1419	0.0785	1.0963
2009	0.1419	0.0785	1.0963

Source: Victor Valley Wastewater Reclamation Authority

Victor Valley Wastewater Reclamation Authority
Ratio of Outstanding Debt by Type
Last Ten Fiscal Years

June 30	State Revolving Fund Loans	Advances from Member Agencies	Lease Payable	California Edison	Cal PERS Side Fund	Total Debt	Debt Per Capita	As a Share of Personal Income
2018	\$ 87,698,996	\$ -	\$ 468,459	\$ 57,171	\$ -	\$ 88,224,626	*	*
2017	81,478,053	-	-	83,387	-	81,561,440	278.81	0.75%
2016	52,619,607	-	-	223,062	-	52,842,669	180.72	0.54%
2015	29,773,664	-	-	107,376	-	29,881,040	102.55	0.31%
2014	25,844,065	-	-	-	670,612	26,514,677	93.12	0.28%
2013	24,024,452	-	-	-	696,459	24,720,911	87.40	0.28%
2012	25,553,520	-	-	-	718,434	26,271,954	93.10	0.29%
2011	13,976,968	-	-	-	735,025	14,711,993	52.52	0.18%
2010	11,516,803	2,719,048	-	-	748,274	14,984,125	54.45	0.18%
2009	12,351,783	231,252	-	-	758,489	13,341,524	49.30	0.23%

* Data not Available

Source: Victor Valley Wastewater Reclamation Authority
California Department of Finance
State of California Employment Development Department

Victor Valley Wastewater Reclamation Authority
Direct and Overlapping Bonded Debts
For the Fiscal Year Ended June 30, 2018

2017-18 Assessed Valuation: \$20,913,906,330

<u>OVERLAPPING TAX AND ASSESSMENT DEBT:</u>	Total Debt 6/30/18	% Applicable (1)	Authority's Share of Debt 6/30/18
Victor Valley Joint Community College District	\$133,548,390	71.363%	\$ 95,304,138
Apple Valley Unified School District	24,903,758	83.870	20,886,782
Victor Valley Union High School District	125,655,828	72.729	91,388,227
Adelanto School District	6,193,086	43.577	2,698,761
Victor School District	51,445,264	97.548	50,183,826
Mojave Water Agency	7,720,000	61.831	4,773,353
City Community Facilities Districts	22,825,000	100.	22,825,000
School District Community Facilities Districts	64,960,000	100.	64,960,000
Town of Apple Valley 1915 Act Bonds	1,165,000	100.	<u>1,165,000</u>
TOTAL OVERLAPPING TAX AND ASSESSMENT DEBT			\$354,185,087
 <u>DIRECT AND OVERLAPPING GENERAL FUND DEBT:</u>			
San Bernardino County General Fund Obligations	\$368,015,000	10.089%	\$ 37,129,033
San Bernardino County Pension Obligation Bonds	336,106,248	10.089	33,909,759
San Bernardino County Flood Control District General Fund Obligations	68,325,000	10.089	6,893,309
Victor Valley Union High School District Certificates of Participation	24,515,000	72.729	17,829,514
Apple Valley Unified School District Certificates of Participation	2,060,000	83.870	1,727,722
Hesperia Unified School District Certificates of Participation	121,740,000	91.766	111,715,928
Snowline Joint Unified School District Certificates of Participation	63,685,000	16.240	10,342,444
Oro Grande School District Certificates of Participation	38,095,000	76.659	29,203,246
Adelanto School District Certificates of Participation	8,565,000	43.577	3,732,370
Town of Apple Valley General Fund Obligations	9,235,000	100.	9,235,000
City of Hesperia Certificates of Participation	35,435,000	100.	35,435,000
Victor Valley Wastewater Reclamation Authority	0	100.	<u>0</u>
TOTAL DIRECT AND OVERLAPPING GENERAL FUND DEBT			\$297,153,325
 <u>OVERLAPPING TAX INCREMENT DEBT (Successor Agencies):</u>	 \$513,374,925	 86.649-100. %	 \$473,335,286
 TOTAL DIRECT DEBT			 \$0
TOTAL OVERLAPPING DEBT			\$1,124,673,698
 COMBINED TOTAL DEBT			 \$1,124,673,698 (2)

- (1) Percentage of overlapping debt applicable to the authority is estimated using taxable assessed property value. Applicable percentages were estimated by determining the portion of the overlapping district's assessed values within the boundaries of the authority divided by the district's total taxable assessed value..
- (2) Excludes tax and revenue anticipation notes, revenue, mortgage revenue and non-bonded capital lease obligations. Qualified Zone Academy Bonds are included based on principal due at maturity.

Ratios to 2017-18 Assessed Valuation:

Total Overlapping Tax and Assessment Debt.....	1.69%
Total Direct Debt	0.00%
Combined Total Debt	5.38%

Ratios to Redevelopment Successor Agencies Incremental Valuation (\$8,869,362,291):

Total Overlapping Tax Increment Debt.....	5.34%
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AB:(\$425)

Victor Valley Wastewater Reclamation Authority

Demographic and Economic Statistics

Last Ten Calendar Years

Dec. 31	Population in Service Area ¹	Personal Income (In Millions)	Personal Income Per Capita ²	Unemployment Rate ²
2017	292,534	\$10,850	\$37,091	5.60%
2016	292,399	\$9,737	\$33,302	6.80%
2015	291,392	\$9,596	\$32,932	7.50%
2014	284,741	\$9,366	\$32,892	8.10%
2013	282,851	\$8,962	\$31,683	10.10%
2012	282,204	\$9,051	\$32,072	12.00%
2011	280,125	\$8,466	\$29,998	13.20%
2010	275,211	\$8,148	\$29,609	14.20%
2009	270,616	\$5,897	\$21,792	13.00%

* Data Not Available per

Service Area Population by Cities

Dec. 31	Apple Valley ¹	Victorville ¹	Hesperia ¹
2017	73,984	123,701	94,849
2016	74,701	123,565	94,133
2015	74,656	123,510	93,226
2014	71,396	121,168	92,177
2013	70,755	120,590	91,506
2012	70,436	120,368	91,400
2011	70,033	119,059	91,033
2010	69,135	115,903	90,173
2009	70,040	112,097	88,479

* Data Not Available

Note 1: VVWRA also serves County of San Bernardino, No. 42 (Oro Grande), No. 64 (Spring Valley Lake), and Mojave Narrows. The population in service area represents most of the population in the area that VVWRA serves.

Note 2: Personal income for the service area is calculated by multiplying the population in the service area by Personal Income Per Capita.

¹ California Department of Finance and U.S. Census Bureau

² State of California Employment Development Department (Data shown is for the County)

Victor Valley Wastewater Reclamation Authority
Principal Employers
Current Year and Nine Years Ago

June 30, 2018

Employer	Business Category
Leading Edge	Aviation
Southern California Aviation	Aviation
Victorville Aerospace	Aviation
TXI Cement	Cement
Robar Enterprises	Cement/Steel
Goodyear	Distribution
Lowe's Home Improvement Warehouse	Distribution
Newell Rubbermaid	Distribution
Walmart Distribution Center	Distribution
Apple Valley Unified School District	Education
Hesperia Unified School District	Education
Victor Elementary School District	Education
Victor Valley College	Education
Victor Valley Union High School District	Education
City of Hesperia	Government
City of Victorville	Government
County of San Bernardino	Government
Hesperia Recreation and Park District	Government
Town of Apple Valley	Government
Stater Bros.	Grocery
WinCo Foods	Grocery
Desert Valley Hospital / Medical Group	Health
St. Mary Medical Center	Health
Victor Valley Community Hospital	Health
Nutro Foods	Pet Food Processing
Arizona Pipeline Company	Pipe Fabricator
Federal Correction Complex Victorville	Prison
In-N-Out	Restaurant
Wood Grill Buffett	Restaurant
K-Mart	Retail
Target Stores, Inc	Retail
The Home Depot	Retail
Walmart Store	Retail
Double Eagle Transportation	Trucking / Repairs
Verizon	Utility – telephone

June 30, 2009

Employer	Business Category
Leading Edge	Aviation
Southern California Aviation	Aviation
Victorville Aerospace	Aviation
TXI Cement	Cement
Robar Enterprises	Cement/Steel
Goodyear	Distribution
Newell Rubbermaid	Distribution
Wal-Mart Distribution Center	Distribution
Apple Valley Unified School District	Education
Hesperia Unified School District	Education
Victor Elementary School District	Education
Victor Valley College	Education
Victor Valley Union High School District	Education
City of Hesperia	Government
City of Victorville	Government
County of San Bernardino	Government
Hesperia Recreation and Park District	Government
High Desert Law & Justice Center	Government
Town of Apple Valley	Government
Albertson's Supermarket	Grocery
Stater Bros.	Grocery
WinCo Foods	Grocery
Apple Valley Christian Care Centers	Health
Desert Valley Hospital / Medical Group	Health
St. Mary Medical Center	Health
Victor Valley Community Hospital	Health
Nutro Foods	Pet Food Processing
Arizona Pipeline Company	Pipe Fabricator
Federal Correction Complex Victorville	Prison
In-N-Out	Restaurant
McDonald's	Restaurant
Red Robin	Restaurant
Wood Grill Buffett	Restaurant
Best Buy	Retail
K-Mart	Retail
Lowe's Home Improvement	Retail
Target Stores, Inc	Retail
Walmart Store	Retail
Double Eagle Transportation	Trucking / Repairs
Verizon	Utility – telephone

Note: Total number of employees for each employer is confidential per 20 CFR Part 603.

Source: Victor Valley Economic Development Authority

Victor Valley Wastewater Reclamation Authority
Investment In Capital Assets
Last Ten Fiscal Years

June 30	2018	2017	2016	2015	2014
Land	\$ 779,136	\$ 779,136	\$ 779,136	\$ 779,136	\$ 650,136
Land Improvements	9,738,124	9,738,124	9,630,803	9,421,375	7,792,390
Plant Buildings	218,162,852	133,494,901	132,421,707	131,778,715	131,601,527
Interceptor Lines	67,544,012	62,653,035	27,606,672	27,606,672	27,606,672
Office Equipment	775,612	766,585	766,585	530,213	530,213
Trucks/Auto	841,568	911,116	911,116	911,116	911,116
Construction in Progress (1)	2,301,965	82,908,664	79,877,599	42,492,810	11,960,240
Accumulated Depreciation	(96,114,915)	(86,958,289)	(79,302,192)	(72,656,613)	(65,868,085)
Total	\$ 204,028,354	\$ 204,293,272	\$ 172,691,426	\$ 140,863,424	\$ 115,184,209

June 30	2013	2012	2011	2010	2009
Land	\$ 650,136	\$ 650,136	\$ 650,136	\$ 650,136	\$ 650,136
Land Improvements	7,757,640	7,757,640	7,757,640	7,564,164	7,538,664
Plant Buildings	112,079,795	105,576,501	105,387,194	104,419,502	104,016,298
Interceptor Lines	27,606,672	27,606,672	24,510,412	23,619,909	23,333,909
Office Equipment	465,609	406,239	406,239	406,239	373,633
Trucks/Auto	858,726	858,726	814,281	708,755	684,364
Construction in Progress (1)	25,896,952	28,349,200	15,130,636	11,567,209	8,283,392
Accumulated Depreciation	(59,279,888)	(53,519,122)	(48,363,376)	(42,688,692)	(37,029,082)
Total	\$ 116,035,642	\$ 117,685,992	\$ 106,293,162	\$ 106,247,222	\$ 107,851,314

Note:

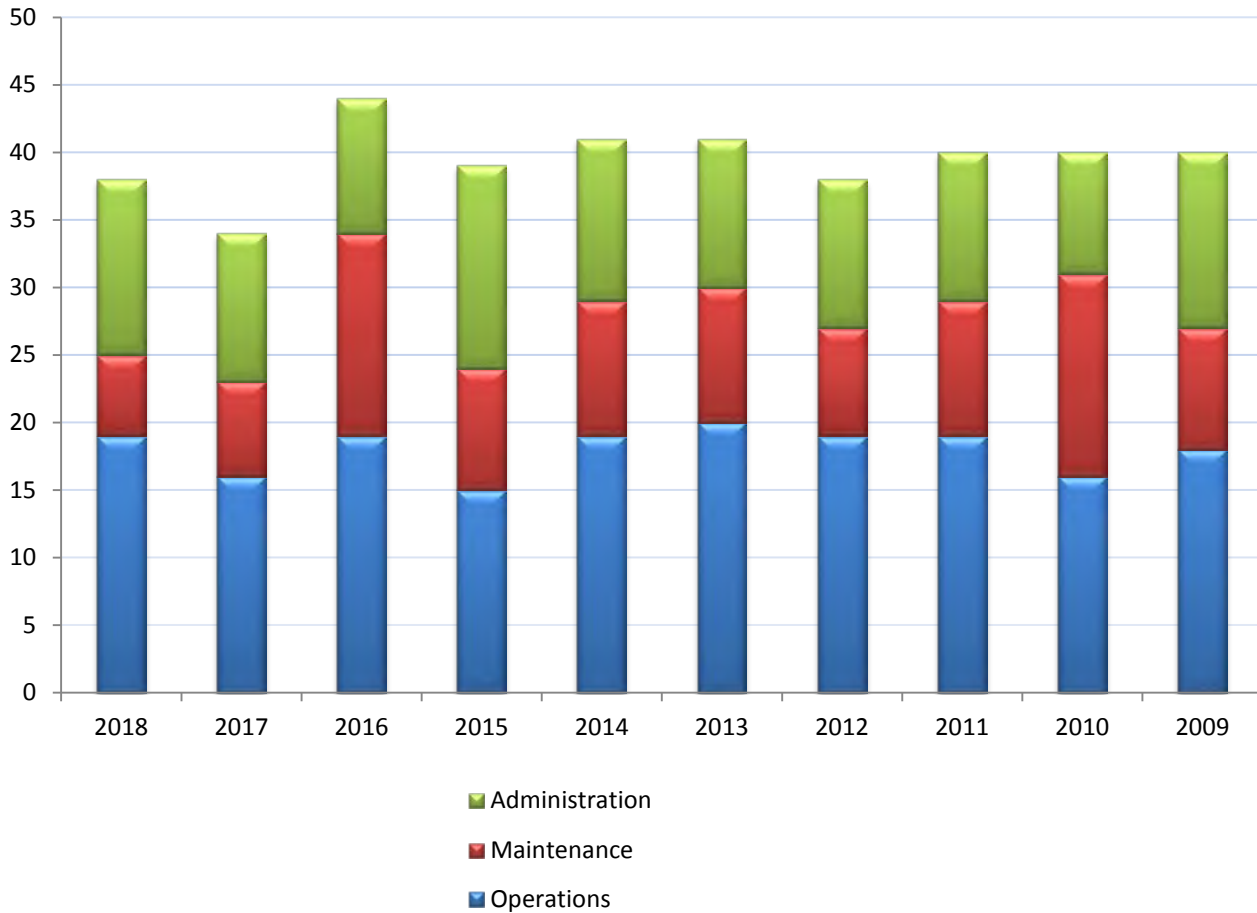
- (1) Construction in progress significantly increased in Fiscal Years 2015, 2016 and 2017 due to the construction of Upper Narrows Pipeline and Subregional Water Reclamation Plants in Hesperia and Apple Valley.
- (2) Construction in progress significantly decreased in Fiscal Years 2018 due to the completion of Subregional Water Reclamation Plants in Hesperia and Apple Valley.

Source: Victor Valley Wastewater Reclamation Authority

**Victor Valley Wastewater Reclamation Authority
Full-Time Equivalent Employees by Function
Last Ten Fiscal Years**

June 30	2018	2017	2016	2015	2014
Operations	19	16	19	15	19
Maintenance	6	7	15	9	10
Administration	13	11	10	15	12
Total	38	34	44	39	41

June 30	2013	2012	2011	2010	2009
Operations	20	19	19	16	18
Maintenance	10	8	10	15	9
Administration	11	11	11	9	13
Total	41	38	40	40	40



Source: Victor Valley Wastewater Reclamation Authority

Victor Valley Wastewater Reclamation Authority
Operating and Capital Indicators (Facts and Figures)
June 30, 2018

Throughout the last three years Victor Valley Wastewater Reclamation Authority (VWVRA) has identified areas in which to improve its operational reliability and efficiency, financial policies and procedures and capital improvement plans. Part of our ongoing effort is to track those improvements and make sure that when change occurs that it is incorporated in to our organizational structure. Benchmarking is a measurement tool used to track the Authority's progress towards achieving its goals. The process encourages transparency, innovation and accountability. Not surprisingly, the Authority has received numerous awards at both local and state levels recognizing its achievements in wastewater treatment and financial reporting. These analyses are included in the Authority's Comprehensive Annual Financial Report and used for financial planning purposes related to budget and evaluating financing options.

Benchmarking is akin to a self evaluation. It is an excellent tool to build credibility, but it is also important given VWVRA's increasing role as a part of the broader water solution locally and statewide. The California Water Plan Update 2005 sets forth statewide goals and provides that sustainability of our water supplies to 2030 will require three actions:

1. Use water efficiently
2. Protect water quality
3. Manage water in ways that protect and restore the environment

VWVRA is actively pursuing these three goals within its service areas and within its organizational culture. To attain these goals, the Capital Improvement Plan (CIP) includes three elements in each project to improve and meet (1) the capacity, (2) performance efficiency and (3) regulatory needs for wastewater treatment for its Member Agencies.

As any good steward of our limited resources would do, we have conducted a benchmarking analysis to identify areas where VWVRA could improve its operation. The primary objective is to create a performance measurement system to evaluate and improve the Authority's operational efficiency. The manual "Benchmarking, Performance Indicators for Water and Wastewater Utilities: 2012 Annual Survey Data and Analysis Report" was utilized as an industry standard reference. The manual is published by the American Water Works Association (AWWA), a national organization dedicated to promoting sound water policy.

We have used information from the U.S. Department of Labor, Bureau of Labor Statistics, Consumer Price Index for All Urban Consumers (CPI-U) to adjust for inflation. The CPI-U is 2.1% for 2017 and 2.1% for 2016. We have adjusted the AWWA wastewater performance data with 2017 CPI-U.

Four indices were chosen which provide a broad perspective on the operational efficiency of VWVRA, these include:

1. **Sewer Overflow Rate**: the purpose of this indicator is to provide "...a measure of collection system piping condition and the effectiveness of routine maintenance by quantifying the number of sewer overflows per 100 miles of collection piping."

**Victor Valley Wastewater Reclamation Authority
Operating and Capital Indicators (Facts and Figures)
June 30, 2018**

- a. Reporting period: Year ended June 30, 2018
- b. Source: State Water Resources Control Board, California Integrated Water Quality System Project (CIWQS)



Apple Valley Sub-regional Plant

2. **Million Gallons per Day (mgd) of Wastewater Processed per Employee:** This is a measure of employee productivity and includes all staff.

- a. Reporting Period: Year ended June 30, 2018
- b. Source: Actual inflow data measured by VVWRA and data provided by Member Agencies and other users.
- c. Source: based on actual employee numbers as of June 30, 2018

3. **Operations and Maintenance Cost per Million Gallons Processed:**

This represents the total operations and maintenance costs (without depreciation) divided by the volume processed during the year.

- a. Reporting Period: Year ended June 30, 2018
- b. Source: Actual inflow data measured by VVWRA and data provided by Member Agencies and other users.
- c. Source: VVWRA Audited Financial Statements June 30, 2018, pages 13

4. **Debt Ratio:** It quantifies the utilities level of indebtedness.

- a. Reporting Period: Fiscal Year 2017-2018
- b. Source: VVWRA Audited Financial Statements June 30, 2018, page 12

The performance indicators are analyzed, comparing to wastewater facilities that are nationwide, West States Region IV, and serving a population size of 100,001 to 500,000.

There are significant regional variations due to population, regulatory complexity and the cost of living associated with wastewater treatment. West States Region IV consists of Alaska, Arizona, California, Colorado, Hawaii, Idaho, Montana, New Mexico, Nevada, Oregon, Utah, Washington, and Wyoming.

**Victor Valley Wastewater Reclamation Authority
Operating and Capital Indicators (Facts and Figures)
June 30, 2018**

Sewer Overflow Rate

Nationwide

	Top Quartile	Median	Bottom Quartile	VVWRA June 30, 2018
Sewer Overflow Rate	0.7	2.2	3.3	6.0

West States Region IV

	Top Quartile	Median	Bottom Quartile	VVWRA June 30, 2018
Sewer Overflow Rate	<i>Data Not Available</i>	0.7	2.4	6.0

Population 100,001-500,000

	Top Quartile	Median	Bottom Quartile	VVWRA June 30, 2018
Sewer Overflow Rate	0.6	1.6	4.4	6.0

VVWRA's Sewer Overflow Rate is 6.0. VVWRA had two reported spill at the Town of Apple Valley and another reported spill at a pump station during year ended June 30, 2018. VVWRA has completed the construction of a permanent interceptor to replace the temporary bypass line that was completed during 2011 to divert the wastewater flow from a damaged interceptor. In addition, VVWRA is finished constructing the Sub-regional wastewater treatment plant each in Apple Valley and Hesperia. The Capital Improvement Plan requires a multi-million dollar funding to address the construction needs.



Hesperia Sub-regional Plant

**Victor Valley Wastewater Reclamation Authority
Operating and Capital Indicators (Facts and Figures)
June 30, 2018**

Million Gallons per Day of Wastewater Processed per Employee

Nationwide

	Top Quartile	Median	Bottom Quartile	VVWRA June 30, 2018
MGD Wastewater processed per employee	0.39	0.23	0.20	0.28

West States Region IV

	Top Quartile	Median	Bottom Quartile	VVWRA June 30, 2018
MGD Wastewater processed per employee	0.31	0.23	0.14	0.28

Population 100,001-500,000

	Top Quartile	Median	Bottom Quartile	VVWRA June 30, 2018
MGD Wastewater processed per employee	0.29	0.22	0.18	0.28

VVWRA places between the top and median quartiles of the Nationwide quartile, the West States, as well as the population category.

**Victor Valley Wastewater Reclamation Authority
Operating and Capital Indicators (Facts and Figures)
June 30, 2018**

Operations and Maintenance Cost per Million Gallons Processed

Nationwide

	Top Quartile	Median	Bottom Quartile	VVWRA June 30, 2018
O&M Cost per MG Processed	<i>Data Not Available</i>	\$2,577	<i>Data Not Available</i>	\$2,901

West States Region IV

	Top Quartile	Median	Bottom Quartile	VVWRA June 30, 2018
O&M Cost per MG Processed	\$1,796	\$4,222	\$6,139	\$2,901

Population 100,001-500,000

	Top Quartile	Median	Bottom Quartile	VVWRA June 30, 2018
O&M Cost per MG Processed	\$1,897	\$3,129	\$4,574	\$2,901

VVWRA is performing between the median and the top quartile in the West States and the population categories however lower than the median quartile nationally. Unfortunately the numbers generated as indices in the AWWA Benchmarking analysis did not differentiate basis upon level of treatment or regulatory requirements. There were also significant differences in personnel costs in the Midwest and South which may have skewed the National Results.

**Victor Valley Wastewater Reclamation Authority
Operating and Capital Indicators (Facts and Figures)
June 30, 2018**

Debt Ratio

Nationwide

	Top Quartile	Median	Bottom Quartile	VVWRA June 30, 2018
Debt Ratio (%)	<i>Data Not Available</i>	22	<i>Data Not Available</i>	44

West States Region IV

	Top Quartile	Median	Bottom Quartile	VVWRA June 30, 2018
Debt Ratio (%)	18	33	56	44

Population 100,001-500,000

	Top Quartile	Median	Bottom Quartile	VVWRA June 30, 2018
Debt Ratio (%)	23	32	44	44

The Authority's debt ratio is below the median quartile when compared to all categories.

Average Cost per Employee

A final analysis is needed to determine how VVWRA's personnel cost compares to southern California agencies. The results indicate that the VVWRA's median per employee cost was approximately \$126,681, showing that VVWRA's personnel cost was one of the lowest. See next page.

**Victor Valley Wastewater Reclamation Authority
Operating and Capital Indicators (Facts and Figures)
June 30, 2018**

Financial and Statistical summary of Selected Wastewater Agencies – Year Ended June 30, 2018							
Wastewater Agencies	Arrowhead	VVWRA	Inland Empire	Big Bear RWA	Orange County San. Dist.	Encina WA	Leucadia WD
Cost of Services	\$6,796,703	\$4,813,879	\$45,457,000	\$2,047,123	\$90,617,606	\$10,985,291	\$3,061,606
Positions	55.5	38	343	15	627	70	19
Average personnel cost per position	\$122,463	\$126,681	\$132,528	\$136,475	\$144,525	\$156,933	\$161,137

Sources: VVWRA’s cost of services and personnel cost are **actual** for the fiscal year ended June 30, 2018, while data for other agencies are from their **budgets** for June 30, 2018.

Discussion

As the data above indicates, VVWRA’s performance seems to be at average or better. There is always room for improvement which is why VVWRA routinely evaluates its performance efficiency to reduce costs and considers alternatives to costly upgrades to address regulatory requirements. The Authority has an approved CIP which is designed to address capacity issues within the interceptor system. These projects include Sub-regional facilities and interceptor upgrades. The Authority is also uniquely positioned in the High Desert to address potable water shortages through improved use of reclaimed water. VVWRA is not unique in this respect, the Little Hoover Commission produced a report in January 2009 dealing with the California water situation and organizational challenges. The report states, in pertinent part:



Equipment at the Hesperia Sub-regional Plant

And while implementation of the Federal Clean Water Act and the state’s Porter-Cologne Water Quality Control Act, the two key laws governing water quality, have made profound improvements in wastewater treatment discharges, wastewater remains a critical statewide problem. Local governments, representing small, poor communities as well as larger, richer urban areas, are struggling to pay for upgrades needed to protect the state’s waters and ensure they are safe to swim in, fish in or drink. An EPA report noted that California would need to spend more than \$18 billion to properly upgrade and expand wastewater treatment.

Victor Valley Wastewater Reclamation Authority
Operating and Capital Indicators (Facts and Figures)
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VVWRA is aggressively pursuing funds to meet the needs of the Member Agencies and the State Regulatory Agencies and to ensure that the communities it serves continue to have reliable wastewater treatment and a source of reclaimed water. The first key step is obvious: to manage the assets the Authority currently operates as efficiently as possible. The second step is to incorporate elements of sustainable land use planning, which are exemplified within the Ahwahnee Water Principles, specifically Water Principle 7-Water Recycling. The reuse of “waste” water is an opportunity for the community to diversify their water portfolios and create a drought proof supply of water to meet landscape irrigation, industrial and commercial needs. Furthermore, since reuse began in 1929 in California, not one single health problem has been reported. VVWRA will continue to partner with the Member Agencies to promote the local reuse of wastewater while actively seeking the resources to provide reliable wastewater treatment services.



Hesperia Sub-regional Plant

In addition to this benchmarking analysis, VVWRA will be preparing itself for the future through a strategic planning and continuous improvement process. All managerial staff has reviewed a book entitled, “Managing the Water and Wastewater Utility” with the goal of producing a Business Plan to help guide the Authority as issues arise. The purpose is to continuously create an organization which proactively recognizes problems and addresses them early rather than reacting to them once they have occurred and responding to the fallout. The book states the goals of this process will be to:

1. Respond to external threats to the utility;
2. Seize opportunities presented by technological, financial, or political change to the advantage of the customers we serve;
3. Maximize the quality of customer service within available resources;
4. Cut costs, while providing excellent customer service;
5. Maintain or improve the safety and quality of employee work life; and
6. Create an organization that will continuously improve and revitalize itself in response to an ever-changing world.

Through a process of self evaluation and creative problem solving, VVWRA intends to meet the needs of the Member Agencies while serving the broader community. It would assist VVWRA in this process if any of the Member Agencies conduct their own benchmarking analysis and they would be willing to share it with us in confidence. This approach would ensure that our effort mirrors theirs such that comparable results are generated. The ultimate goal is to plan and create an organization capable of responding to our local issues and needs, while keeping in mind the broader policy issues, which may impact our ability to execute our goals locally.

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