# Comprehensive Annual Financial Report



For the Fiscal Years Ended June 30, 2021 and 2020 Hampton Roads Sanitation District (A Component Unit of the Commonwealth of Virginia)







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# HAMPTON ROADS SANITATION DISTRICT

COMPREHENSIVE ANNUAL FINANCIAL REPORT FOR THE FISCAL YEARS ENDED JUNE 30, 2021 AND 2020



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November 15, 2021 Hampton Roads Sanitation District Commission Virginia Beach, Virginia

#### Dear Commissioners:

Political subdivisions of the Commonwealth of Virginia are required to publish a complete set of audited financial statements. This report fulfills that requirement for the fiscal year ended June 30, 2021.

Hampton Roads Sanitation District's (HRSD) management assumes full responsibility for the completeness and reliability of the information contained in this report, based on a comprehensive framework of internal control it has established for this purpose. Because the cost of internal control should not exceed anticipated benefits, the objective is to provide reasonable, rather than absolute, assurance that the financial statements are free of material misstatements.

Cherry Bekaert LLP, Certified Public Accountants, has issued an unmodified ("clean") opinion on HRSD's financial statements for the year ended June 30, 2021. The independent auditors' report is located at the front of the financial section of this report.

Management's Discussion and Analysis (MD&A) immediately follows the Report of Independent Auditor and provides a narrative introduction, overview and analysis of the basic financial statements. The MD&A, which complements this letter of transmittal, should be read in conjunction with it.

#### **PROFILE OF HRSD**

HRSD is an independent political subdivision of the Commonwealth of Virginia (the Commonwealth) created by referendum on November 5, 1940. HRSD was established to abate water pollution in the Hampton Roads area by providing a system of interceptor mains and wastewater treatment plants.

Approximately 1.7 million individuals, more than one-fifth of Virginia's population, reside in HRSD's service area, which is in the southeastern corner of the Commonwealth. HRSD's territory of approximately 5,000 square miles encompasses nine cities, eleven counties and several large military facilities. A brief history of HRSD is provided on page 6. HRSD is required by its Enabling Act to meet its obligations by charging user fees for its wastewater treatment services; no taxing authority is authorized by the Enabling Act. Currently, HRSD provides service and bills to approximately 481,000 service connections.

Aboard of eight commissioners (the Commission), appointed by the Governor of Virginia, governs HRSD. Commission members, who serve four-year staggered terms, can be reappointed without limitation and may be suspended or removed by the Governor at his pleasure. The Commission appoints a General Manager, who appoints the senior staff.

HRSD owns and operates 16 treatment plants. The nine major plants in Hampton Roads have design capacities ranging in size from 15 to 54 million gallons per day (MGD). Five of the major plants are located south of the James River and four are north of the James River (see map on page 6). The combined capacity of these nine plants is approximately 249 MGD. HRSD's seven small rural treatment plants have a combined capacity of one MGD.

HRSD maintains 540 miles of pipelines ranging from six inches to sixty-six inches in diameter. Interceptor pipelines, along with 90 pump stations in Hampton Roads, interconnect into two independent systems, one south of the James River and one north of the James River. The system allows some flow diversions to provide for maintenance or emergency work. HRSD owns and maintains 42 pump stations in the Small Communities.

#### **Local Economy**

HRSD's service area includes nearly all the Virginia Beach-Norfolk-Newport News Metropolitan Statistical Area (MSA). It is the eighth largest MSA in the southeastern United States and the thirty-seventh largest in the nation[AL1] [RL2]. Unlike many metropolitan areas, Hampton Roads' population nucleus is not confined to one central city. Instead, the approximately 1.7 million residents are spread among several cities and counties. Virginia Beach is the most populous city in the Commonwealth, with Norfolk and Chesapeake second and third, respectively. Suffolk is the largest city by land area. Unemployment rates remain below national averages in the region, which has a civilian labor force of 839,600 as of June 2021.

The regional economy is supported by one of the highest military concentrations in the nation, diverse manufacturing and service sectors, shipbuilding and repair work, international port activities and tourism. Several state and private colleges and a large healthcare infrastructure also lend stability to the region.

A diverse customer base allows HRSD to maintain stable revenues. The ten largest customers account for only 12.2 percent of wastewater revenues for fiscal year 2021. In addition, HRSD's 2021 revenues contained only limited reliance (2.2 percent) [AL1] on new customer connections.

#### **Long-Term Financial Planning**

HRSD's Financial Policy helps it maintain its solid fiscal health. Budgetary principles include using ongoing revenues to pay for ongoing expenses and establishing annual cash contribution goals of at least 15 percent of budgeted capital costs. Under the Financial Policy, senior debt service coverage and total adjusted debt service coverage ratios should not be less than 1.5 and 1.4 times annual debt service, respectively with a goal of maintaining 2.0. Operating and ten-year capital improvement budgets are adopted annually. Included in the operating budget is a long-range financial forecast, which is guided by projections of operating and capital needs and the aforementioned Financial Policy requirements.

#### **Major Initiatives**

HRSD continues its ambitious \$3.0 billion, ten-year Capital Improvement Program. Regulatory requirements to reduce nutrient discharges, initiatives to ensure appropriate wet weather capacity exists within the regional sanitary sewer system, major plant upgrades and replacements of interceptor pipelines drive the capital program. Major projects are currently under construction at the Army Base, Boat Harbor, Nansemond and the Virginia Initiative Treatment Plants. To minimize the impacts of its capital investments on ratepayers, HRSD continues to pursue grant and joint venture opportunities when available.

#### **AWARDS and Acknowledgments**

The Government Finance Officers Association (GFOA) awarded a Certificate of Achievement for Excellence in Financial Reporting to HRSD for its comprehensive annual financial report (Annual Report) for the fiscal year ended June 30, 2020. This was the 38th consecutive year that HRSD has received this prestigious award. In order to be awarded a Certificate of Achievement, HRSD must publish an easily readable and efficiently organized Annual Report that satisfies both generally accepted accounting principles and applicable legal requirements.

A Certificate of Achievement is valid for a period of one year only. We believe our current Annual Report 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.

The preparation of this Annual Report was made possible by the dedicated service of the entire Department of Finance staff. All members of the department have our sincere appreciation for their contributions to the preparation of this report. Credit must also be given to the Commission for their support for maintaining the highest standard of professionalism in the management of HRSD's finances.

Respectfully submitted,

MISM

Edward Henifin, P.E. General Manager

Jay A. Bernas, P.E. Director of Finance

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Carroll L. Acors, CPA Chief of Accounting

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Government Finance Officers Association

Certificate of Achievement for Excellence in Financial Reporting

Presented to

### Hampton Roads Sanitation District Virginia

For its Comprehensive Annual Financial Report For the Fiscal Year Ended

June 30, 2020

Chuitophu P. Morrill
Executive Director/CEO

## Principal Officials June 30, 2021

#### **COMMISSIONERS**

Frederick N. Elofson, CPA, Chair

Maurice P. Lynch, PhD, Vice-Chair

Michael E. Glenn Vishnu K. Lakdawala, PhD

Willie Levenston, Jr. Stephen C. Rodriguez

Elizabeth A. Taraski, PhD Molly J. Ward

#### **COMMISSION SECRETARY**

Jennifer L. Cascio

#### **SENIOR STAFF**

Edward G. Henifin, PE General Manager

Jay A. Bernas, PE Charles B. Bott, PhD, PE
Director of Finance and Treasurer Director of Water Technology And
Research

Paula A. Hogg Director of Talent Management Donald C. Corrado Director of Information Technology

Bruce W. Husselbee, PhD, PE Director of Engineering

Leila E. Rice, APR
Director of Communications

### Director of Water Quality

Sands Anderson, PC General Counsel

Steven G. de Mik, CPA

**Director of Operations** 

James J. Pletl, PhD

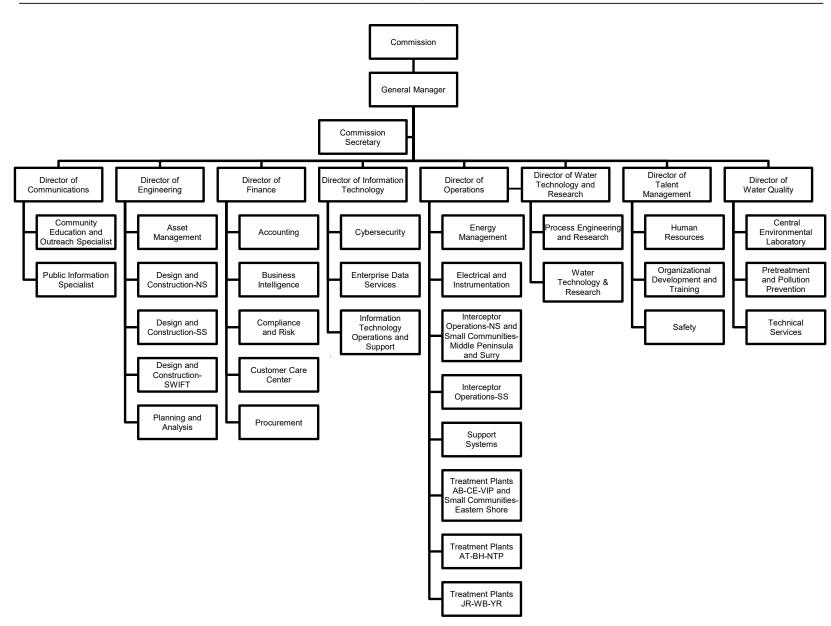
AquaLaw, PLC Special Counsel

COUNSEL

Norton Rose Fulbright US, LLP Bond Counsel

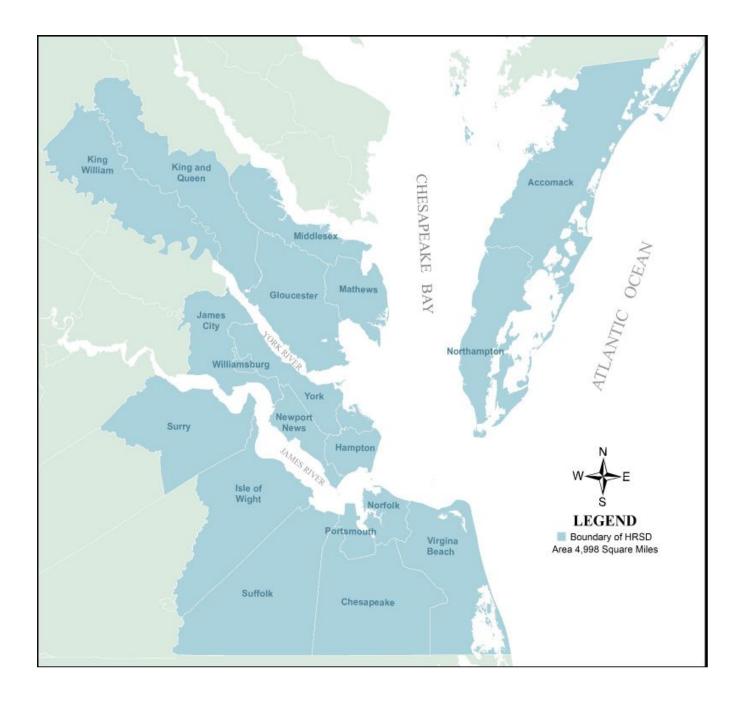
#### **HRSD Organization Chart**

June 30, 2021





#### **HRSD Service Area**



#### **HRSD History**

#### June 30, 2021

HRSD can trace its beginnings to 1925 when the Virginia Department of Health condemned a large oyster producing area in Hampton Roads. The closure resulted in the Virginia General Assembly creating in 1927 a "Commission to Investigate and Survey the Seafood Industry of Virginia." Other studies recommended a public body to construct and operate a sewage system in the area. HRSD was named after Hampton Roads, a ship anchorage used for five centuries located near the convergence of the James, Elizabeth and Nansemond Rivers, before they flow into the Chesapeake Bay in southeastern Virginia.

In 1934, the Virginia General Assembly created the Hampton Roads Sanitation Disposal Commission with instructions to plan the elimination of pollution in Hampton Roads. Recommendations were made to the General Assembly, which resulted in the Sanitary Districts Law of 1938, along with "an Act to provide for and create the Hampton Roads Sanitation District." This Act required the qualified voters within HRSD to decide in a general election on November 8, 1938, if they favored creation of such a District. This referendum failed to gain a majority by about 500 votes out of nearly 20,000 votes cast. This led to a revision of the Act and another referendum was held on November 5, 1940, which resulted in a majority vote for the creation of the Hampton Roads Sanitation District.

The Enabling Act provides for HRSD to operate as a political subdivision of the Commonwealth of Virginia for the specific purpose of water pollution abatement in Hampton Roads by providing a system of interceptor mains and wastewater treatment plants. Its affairs are controlled by a Commission of eight members appointed by the Governor for four-year terms. Administration is under the direction of a General Manager, supported by department directors and their staff.

HRSD began operations on July 1, 1946, using facilities acquired from the United States Government. The Warwick County Trunk Sewer, HRSD's first construction project, began on June 26, 1946, and was funded by HRSD's \$6.5 million Primary Pledge Sewer Revenue Bonds, dated March 1, 1946. The first treatment plant, the Army Base Plant, began operation on October 14, 1947. Since that time, the facilities of HRSD have grown to provide sanitary sewer service to all major population centers in southeastern Virginia. The population served has increased from nearly 288,000 in 1940 to about 1.7 million in 2020.

Throughout its rich history HRSD has earned many of its industry's most prestigious awards. This tradition continued as the National Association of Clean Water Agencies (NACWA) presented Peak Performance Awards for outstanding compliance with National Pollutant Discharge Elimination System (NPDES) permits to the following HRSD treatment plants during the year ended June 30, 2021: Atlantic— Platinum Award (6 consecutive years of compliance), Boat Harbor—Platinum (19 consecutive years), James River—Platinum 7 consecutive years), Nansemond—Platinum (19 consecutive years), Virginia Initiative Plant—Platinum (25 consecutive years), Williamsburg—Platinum (26 consecutive years) and York River— Platinum (13 consecutive years).

Additional awards and honors received during the year ended June 30, 2021 include the Water Research Foundation (WRF) Outstanding Subscriber Award for Applied Science; The American Council of Engineering Companies (ACEC) National Grand Award for the nutrient reduction improvements project at the Virginia Initiative Plant) and the Elizabeth River Project's Sustained Distinguished Performance Award.



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INTRODUCTORY

SECTION

#### **Report of Independent Auditor**

To the Commissioners Hampton Roads Sanitation District

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

We have audited the accompanying financial statements of the major fund and aggregate remaining fund information of the Hampton Roads Sanitation District ("HRSD"), as of and for the years ended June 30, 2021 and 2020, and the related notes to the financial statements, which collectively comprise HRSD's basic financial statements as listed in the table of contents.

#### Management's Responsibility for the Financial Statements

Management is responsible for the preparation and fair presentation of these financial statements in accordance with accounting principles generally accepted in the United States of America; this includes the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error.

#### Auditor's Responsibility

Our responsibility is to express opinions on these financial statements based on our audits. We conducted our audit in accordance with auditing standards generally accepted in the United States of America, the standards applicable to financial audits contained in *Government Auditing Standards*, issued by the Comptroller General of the United States, and the *Specifications for Audits of Authorities, Boards, and Commissions*, issued by the Auditor of Public Accounts of the Commonwealth of Virginia. Those standards and specifications require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement.

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

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

#### **Opinion**

In our opinion, the financial statements referred to above present fairly, in all material respects, the financial position of the major fund and aggregate remaining fund information of HRSD, as of June 30, 2021 and 2020, and the changes in its financial position and its cash flows, where applicable, for the years then ended in accordance with accounting principles generally accepted in the United States of America.

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#### **Other Matters**

#### Required Supplementary Information

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

#### Other Information

Our audit was conducted for the purpose of forming opinions on the financial statements that collectively comprise HRSD's basic financial statements. The Introductory, Statistical and Other Supplemental Sections are presented for purposes of additional analysis and are not a required part of the basic financial statements.

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

#### Other Reporting Required by Government Auditing Standards

In accordance with *Government Auditing Standards*, we have also issued our report dated November 15, 2021, on our consideration of HRSD's internal control over financial reporting and on our tests of its compliance with certain provisions of laws, regulations, contracts, and grant agreements and other matters. The purpose of that report is solely to describe the scope of our testing of internal control over financial reporting and compliance and the results of that testing, and not to provide an opinion on the effectiveness of HRSD's internal control over financial reporting or on compliance. That report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering HRSD's internal control over financial reporting and compliance.

Virginia Beach, Virginia November 15, 2021

Cherry Bekaut LLP

STATISTICAL SECTION (UNAUDITED)

OTHER SUPPLEMENTAL SECTION (UNAUDITED)

#### MANAGEMENT'S DISCUSSION AND ANALYSIS (Unaudited)

This narrative overview and analysis of the financial activities of the Hampton Roads Sanitation District (HRSD) for the fiscal years ended June 30, 2021 and 2020, is provided by HRSD's management. Readers of the accompanying financial statements are encouraged to consider this information in conjunction with that furnished in the transmittal letter, which can be found on pages 1 through 2 of this report.

#### FINANCIAL HIGHLIGHTS

INTRODUCTORY

**SECTION** 

- Total net position increased by \$80.9 million, or 9.3 percent, in 2021 as a result of this year's operations.
- Total revenues increased by \$3.2 million, or 1.0 percent, due to a \$7.7 million increase in operating revenues and a \$0.9 million increase in facility charges offset by a \$5.4 million decrease in investment income, which was primarily due to market volatility and lower interest rates.
- Operating expenses increased by \$14.1 million, or 6.4 percent, principally due to a \$2.6 million increase in pension expense, a \$2.0 million increase in material and supplies, a \$3.5 million increase in contractual services, \$1.8 million increase in depreciation expense and a \$4.3 million increase in capital construction projects expense.
- Restricted cash and cash equivalents increased \$2.3 million, or 8.2 percent, due to an increase in cash restricted for debt service. Unrestricted cash and cash equivalents decreased \$49.2 million, or 20.5 percent, primarily due to utilizing cash to fund capital construction projects in FY21.
- Net Property, Plant and Equipment increased \$146.9 million, or 10.1 percent, due to \$115.0 million net increase in treatment plants and interceptor systems expansion and improvements and \$31.4 million increase in land purchases.

#### **OVERVIEW OF FINANCIAL STATEMENTS**

HRSD's Basic Financial Statements are comprised of the financial statements and the notes to the financial statements. This report also contains required supplementary information and other supplementary information in addition to the Basic Financial Statements.

The Basic Financial Statements, found on pages 20 through 23 of this report, are designed to provide readers with a broad overview of HRSD's finances in a manner similar to a private sector business.

The Statements of Net Position, found on pages 20 and 21 of this report, present information on all of HRSD's assets, deferred outflows of resources, liabilities, and deferred inflows of resources; the difference between these components is reported as net position. Over time, changes in net position may serve as a useful indicator of whether the financial position of HRSD is improving or deteriorating.

The Statements of Revenues, Expenses and Changes in Net Position, found on page 22 of this report, present all of HRSD's revenues and expenses, showing how HRSD's net position changed during the year. All changes in net position are reported as soon as the underlying event takes place, thus giving rise to the changes, regardless of the timing of the cash flows. Thus, revenues and expenses are reported for some items that will only result in cash flows in future fiscal periods.

The Statements of Fiduciary Net Position and Statement of Changes in Fiduciary Net Position, found on pages 24 and 25, provide information on the control of assets for which HRSD has a fiduciary responsibility and the beneficiaries with whom a fiduciary responsibility exists. These statements are required by Governmental Accounting Standards Board Statement No. 84, *Fiduciary Activities*, as discussed in Notes 2 and 14.

The Notes to Financial Statements, found on pages 26 through 59 of this report, provide additional information that is essential to a full understanding of the data provided in the financial statements.

In addition to the Basic Financial Statements and the related notes, this report also presents certain required supplementary information concerning HRSD's progress in funding its obligations to provide pension and other postemployment benefits to its employees.

Required Supplementary Information can be found beginning on page 63 of this report.



#### **FINANCIAL ANALYSIS**

As noted earlier, net position may serve over time as a useful indicator of HRSD's financial position. Total assets and deferred outflows of resources exceeded total liabilities and deferred inflows of resources by \$950.8 million at June 30, 2021 and by \$869.9 million at June 30, 2020.

By far, the largest portion of HRSD's net position (81.6 percent and 74.3 percent at June 30, 2021 and 2020, respectively) reflects its net investment in capital assets (e.g. land, buildings, machinery and equipment) less any related debt used to acquire those assets still outstanding, net of unspent bond proceeds. HRSD uses these capital assets to provide services to its customers; consequently, these assets are not available for future spending. Although HRSD's net investment in its capital assets is reported net of related debt, it should be noted that the resources needed to repay this debt must be provided from other sources, because the capital assets themselves cannot be liquidated to reduce these liabilities.

HRSD's net position is summarized in the following condensed Statements of Net Position as of June 30:

#### **HRSD's Condensed Statements of Net Position**

				2021 vs.	2020
(in thousands)	2021	2020	2019	Dollars	Percent
Capital assets	\$ 1,604,841	\$ 1,457,955	\$ 1,358,327	\$ 146,886	10.1%
Current and noncurrent assets	311,141	337,233	399,840	(26,092)	(7.7%)
Total assets	\$ 1,915,982	\$ 1,795,188	\$ 1,758,167	\$ 120,794	6.7%
Deferred outflows of resources	\$ 42,277	\$ 37,592	\$ 21,442	\$ 4,685	12.5%
Long-term liabilities	\$ 794,371	\$ 791,705	\$ 847,928	\$ 2,666	0.3%
Current liabilities	195,162	157,752	140,564	37,410	23.7%
Total liabilities	\$ 989,533	\$ 949,457	\$ 988,492	\$ 40,076	4.2%
Deferred inflows of resources	\$ 17,902	\$ 13,416	\$ 9,412	\$ 4,486	33.4%
Net investment in capital assets	\$ 776,253	\$ 646,505	\$ 494,779	\$ 129,748	20.1%
Restricted for debt service	30,455	28,155	28,553	2,300	8.2%
Unrestricted	144,116	195,247	258,373	(51,131)	(26.2%)
Total net position	\$ 950,824	\$ 869,907	\$ 781,705	\$ 80,917	9.3%

At June 30, 2021 and 2020, HRSD had no unspent bond proceeds. The increase in capital assets and the corresponding decreases in current assets is primarily due to an increase in the utilization of cash to fund and complete capital improvement projects.

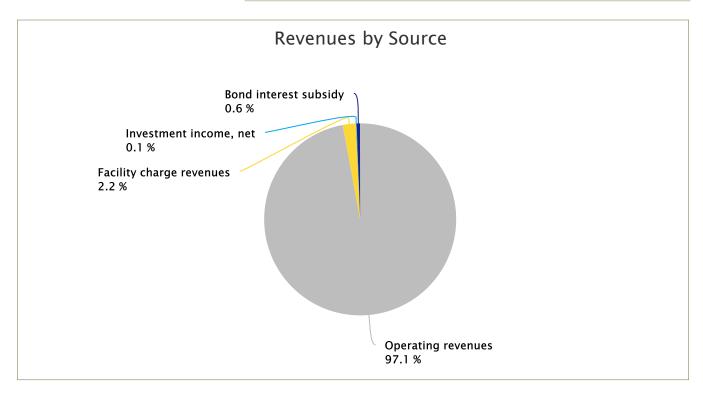
**FINANCIAL** 

**SECTION** 

The changes in HRSD's net position can be determined by reviewing the following condensed Statements of Revenues, Expenses and Changes in Net Position:

#### HRSD's Condensed Statements of Revenues, Expenses and Changes in Net Position

					2021 vs.	2020
(in thousands)	2021	20	20	2019	Dollars	Percent
Revenues:						
Operating revenues	\$ 329,769	\$	322,032	\$ 303,121	\$ 7,737	2.4%
Facility charge revenues	7,379		6,444	6,662	935	14.5%
Investment income, net	471		5,876	8,719	(5,405)	(92.0%)
Bond interest subsidy	2,167		2,205	2,308	(38)	(1.7%)
Total revenues	339,786		336,557	320,810	3,229	1.0%
Operating expenses:						
Wastewater treatment	132,820		122,393	117,189	10,427	8.5%
General and administrative	48,691		46,949	41,121	1,742	3.7%
Depreciation and amortization	53,278		51,383	53,225	1,895	3.7%
Total operating expenses	234,789		220,725	211,535	14,064	6.4%
Non-operating expenses:						
Bond issuance costs	682		1,290	53	(608)	(47.1%)
Capital distributions to localities	376		-	-	376	-%
Disposal of capital assets	-		739	-	(739)	(100.0%)
Interest expense	 25,339		26,179	27,964	(840)	(3.2%)
Total non-operating expenses	26,397		28,208	28,017	(1,811)	(6.4%)
Total expenses	 261,186		248,933	 239,552	 12,253	4.9%
Income before capital contributions	78,600		87,624	81,258	(9,024)	(10.3%)
Capital contributions	2,317		578	2,818	1.739	300.9%
Change in net position	 80,917		88,202	 84,076	(7,285)	(8.3%)
Total net position - beginning	869,907		781,705	697,629	88,202	11.3%
Total net position - ending	\$ 950,824	\$	869,907	781,705	\$ 80,917	9.3%



Operating revenues increased by \$7.7 million, or 2.4 percent, in 2021 and by \$18.9 million, or 6.2 percent, in 2020. The increase in 2021 was primarily due to an increase in consumption. The majority of 2020 increase was attributable to various rate increases in metered public wastewater services. Net Investment income decreased \$5.4 million in



2021, or 92.0 percent, primarily due to FY21 market volatility and reduced cash balances, compared to a \$2.8 million decrease, or 32.6 percent, in 2020.

Operating expenses increased by \$14.1 million, or 6.4 percent in 2021 and by \$9.2 million, or 4.3 percent, in 2020. Increases in 2021 were principally due to a \$2.6 million increase in pension expense, a \$2 million increase in material and supplies, \$3.5 million increase in contractual services, \$1.8 million increase in depreciation expense and a \$4.3 million increase in capital construction projects expense in FY21. Increases in 2020 were principally due to a \$1.6 million increase in contractual services, a \$3.3 million increase in personal services, \$3.1 million increase in fringe benefits and a \$1.2 million increase in bond cost of issuance.

In 2021 and 2020, HRSD received \$2.3 million and \$0.6 million, respectively, in capital contributions to help finance its capital improvement program.

#### CAPITAL ASSETS AND DEBT ADMINISTRATION

#### **Capital Assets**

At the end of 2021 and 2020, HRSD had approximately \$1.6 billion and \$1.5 billion, respectively, invested in a broad range of capital assets, including land, wastewater treatment plants, interceptor systems, pump stations, administrative and maintenance buildings, equipment and software. These amounts represent a net increased \$146.9 million, or 10.1 percent in 2021 and a net increase of \$99.6 million, or 7.3 percent in 2020.

The following summarizes HRSD's capital assets, net of accumulated depreciation, as of June 30:

#### **HRSD's Capital Assets**

(in thousands)	2021	2020	2019
Land	\$ 43,658	3 \$ 12,229	12,174
Treatment plants	696,176	654,809	549,645
Interceptor systems	522,400	447,372	440,236
Buildings	26,021	27,305	29,617
Small community facilities	16,123	16,672	17,222
Office equipment	788	3 754	1,513
Automotive	1,715	1,716	1,941
Other equipment	13,999	4,309	6,007
Software and intangible assets	815	5 2,204	5,441
	1,321,695	1,167,370	1,063,796
Construction in progress	283,146	290,585	294,531
Net property, plant and equipment	\$ 1,604,841	\$ 1,457,955	\$ 1,358,327

The following summarizes the changes in capital assets for the years ended June 30:

(in thousands)	2021	2020	2019
Balance at beginning of year	\$ 1,457,955	\$ 1,358,327	\$ 1,321,644
Additions	207,603	156,518	17,661
Transfers/Retirements	-	(1,819)	(1,050)
Depreciation and amortization	(53,278)	(51,383)	(53,226)
Accumulated depreciation retired	-	258	1,050
Net increase (decrease) in construction in progress	(7,439)	(3,946)	72,248
Balance at end of year	\$ 1,604,841	\$ 1,457,955	\$ 1,358,327

The largest increase in capital assets over the past several years has been in treatment plant construction and interceptor system construction, which includes pipeline replacements, pump station rehabilitations and other improvements to the infrastructure. HRSD's total capital expenditures were \$213.4 million during 2021 and \$161.1 million during 2020. Increases in 2021 are primarily due to increase in SWIFT project expansion expenses, increase in treatment plants and interceptor systems expansion and improvements projects and increase in land purchases. The largest increase in FY20 was the completion of the Virginia Initiative Treatment Plant Nutrient Reduction project and improvements to the Nansemond interceptor system.

STATISTICAL SECTION (UNAUDITED)

OTHER
SUPPLEMENTAL
SECTION
(UNAUDITED)

#### LongTerm Debt

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At June 30, 2021, HRSD had a total of \$835.0 million in revenue bonds outstanding versus \$835.5 million in 2020, less than a 0.01 percent decrease. Draws on existing approved bonds, in the amount of \$35.4 million, were offset by payments on existing senior and subordinate debt and amortization of bond premiums, in the amount of \$35.9 million.

The following summarizes HRSD's outstanding debt principal at June 30:

#### **HRSD's Outstanding Debt**

(in thousands, net of premium)	2021	2020	2019
Senior revenue bonds	\$ 198,670	\$ 214,212 \$	313,340
Subordinate revenue bonds	616,533	597,745	512,168
Total outstanding debt	\$ 815,203	\$ 811,957 \$	825,508

HRSD's financial strengths are reflected in its high credit ratings listed below:

Ratings Agency	Senior Debt	Subordinate Long-term	Subordinate Short-term
Standard & Poor's	AA+	AA+	A-1+
Fitch Ratings	AA+	AA	F1+
Moody's Investors Service	Aa1	Aa1	n/a

The development of HRSD's Capital Improvement Program and its related debt programs are governed by revenue Trust Agreements. The Senior Trust agreement requires the senior debt coverage to be 1.2 times maximum annual debt service and total debt service coverage of 1.0 times maximum annual debt service, both on a Generally Accepted Accounting Principles basis. The Amended and Subordinate Trust agreement was amended in 2016 to account for future Consent Decree expenses related to Locality wet weather improvements that HRSD will not own. In the Amended Trust, Operating Expenses were redefined as shown below for the purposes of calculating an "Adjusted" debt service coverage on a cash basis:

"Operating Expenses" as defined by the Enabling Act and as used in the Senior Trust Agreement, operating expenses includes the cost of maintaining, repairing and operating such system or systems or sewer improvements and to provide such reserves therefore as may be provided in the resolution providing for the issuance or such revenue bonds or in the trust agreement securing the same. As defined in the Subordinate Trust Agreement, Operating Expenses includes those expenses required to pay the cost of maintaining, repairing and operating the Wastewater System, including, but not limited to, reasonable and necessary usual expenses of administration, operation, maintenance and repair, costs for billing and collecting the rates, fees and other charges for the use of or the services furnished by the Wastewater System, insurance premiums, credit enhancement and liquidity support fees, legal, engineering, auditing and financial advisory expenses, expenses and compensation of the Trustee, and deposits into a self-insurance program. Operating Expenses shall exclude allowance for depreciation and amortization and expenditures for extraordinary maintenance or repair or improvements. Operating Expenses shall also exclude expenses for improvements that will not be owned by HRSD but which will, in the reasonable determination of the Commission, as evidenced by a resolution thereof, maintain or improve the integrity of the Wastewater System.

The Amended and Subordinate Trust agreement requires total debt service coverage to be 1.2 times current year debt service on an Adjusted basis. HRSD's Financial Policy and operating and capital improvement plans were developed with the intent to maintain coverage ratios in excess of these requirements. HRSD's Financial Policy requires senior debt service coverage to be 1.5 times and total debt service coverage to be 1.4 times.



	Senior Debt Service Coverage		Total Debt Se	ervice Coverage
	GAAP	GAAP Adjusted		Adjusted
	1.20x		1.00x	
Senior Trust Agreement	(MADS)	None	(MADS)	None
				1.20x
Amended Subordinate Trust Agreement	None	None	None	(Current Year)
		1.50x		1.40x
Financial Policy	None	(Current Year)	None	(Current Year)

More detailed information regarding HRSD's capital assets and long-term debt is presented in Notes 5 and 9, respectively.

#### **ECONOMIC FACTORS AND RATES**

The five-year rolling average billed consumption continues to decline, but the most recent fiscal year experienced a slight increase. This may be due to pandemic related water consumption as the economy reopened with vaccines being administered and working from home became more common.

In consideration of the economic stresses created by the COVID-19 pandemic on ratepayers, wastewater treatment rates for the 2021 fiscal year were not increased. HRSD reprioritized some planned investments, obtained relief from federal and state regulatory schedules, took advantage of historically low interest rates and judiciously used reserves previously set aside for unexpected needs to accommodate for deferred rate wastewater treatment rate increase. HRSD will continue to monitor the COVID-19 impact on our ratepayers and make further adjustments to investment plans should the economic conditions warrant.

#### **CONTACTING HRSD'S FINANCIAL MANAGEMENT**

This financial report is designed to provide a general overview of HRSD's finances for all those with an interest. Questions concerning the information provided in this report or any requests for additional information should be addressed to the Director of Finance, 1434 Air Rail Avenue, Virginia Beach, Virginia 23455.



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#### STATEMENTS OF NET POSITION **AS OF JUNE 30, 2021 AND 2020**

#### ASSETS AND DEFERRED OUTFLOWS OF RESOURCES

(in thousands)	2021	2020
CURRENT ASSETS	 2021	2020
Cash and cash equivalents	\$ 125,838 \$	175,210
Cash and cash equivalents - restricted	30,455	28,155
Accounts receivable, net	57,130	39,178
Other current assets	4,619	2,933
TOTAL CURRENT ASSETS	218,042	245,476
NONCURRENT ASSETS		
Cash and cash equivalents	65,054	64,900
Inventory	25,032	26,857
Net OPEB Asset	 3,013	
	 93,099	91,757
NET PROPERTY, PLANT AND EQUIPMENT		
Land	43,658	12,229
Treatment plants	1,460,238	1,384,293
Interceptor systems	725,600	638,150
Buildings	48,236	48,081
Small community facilities	25,625	25,625
Office equipment	45,049	44,613
Automotive	19,933	19,127
Other equipment	48,899	37,517
Software and intangible assets	 40,074	40,074
	2,457,312	2,249,709
Less: Accumulated depreciation and amortization	 1,135,617	1,082,339
Our track of the formation	1,321,695	1,167,370
Construction in progress	 283,146	290,585
NET PROPERTY, PLANT AND EQUIPMENT	 1,604,841	1,457,955
TOTAL NONCURRENT ASSETS	 1,697,940	1,549,712
TOTAL ASSETS	 1,915,982	1,795,188
DEFERRED OUTFLOWS OF RESOURCES		
Deferred loss on debt refunding, net	21,717	24,029
Differences between expected and actual experience:		
OPEB plans	5,129	2,894
Pension plan	525	1,268
Changes of assumptions:		
OPEB plans	251	312
Pension plan	4,149	5,764
Net difference between projected and actual earnings on plans investments		
OPEB plans	160	-
Pension plan	6,456	-
Change in proportion, OPEB plans	30	41
Contributions subsequent to the measurement date:		
OPEB plans	407	387
Pension plan	 3,453	2,897
TOTAL DEFERRED OUTFLOWS OF RESOURCES	 42,277	37,592
TOTAL ASSETS AND DEFERRED OUTFLOWS OF RESOURCES	\$ 1,958,259 \$	1,832,780

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#### STATEMENTS OF NET POSITION **AS OF JUNE 30, 2021 AND 2020**

REQUIRED

#### LIABILITIES, DEFERRED INFLOWS OF RESOURCES AND NET POSITION

(in thousands)				
CURRENT LIABILITIES		2021		2020
CURRENT LIABILITIES	Φ.	EZ 0E4	œ.	27.454
Trade and contracts payable	\$	57,054	Ф	37,454
Contract retention		8,778		7,626
Accrued salaries and wages		3,395		3,154
Current portion of bonds payable		38,419		35,906
Variable rate demand bonds		50,000		50,000
Notes payable		15,299		- 0.400
Current portion of compensated absences		5,765		6,160
Debt interest payable		8,532		8,875
Other liabilities		7,920		8,577
TOTAL CURRENT LIABILITIES		195,162		157,752
LONG-TERM LIABILITIES				
Compensated absences		3,139		2,410
Net OPEB liability		5,529		10,664
Net pension liability		39,116		29,058
Bonds payable		746,587		749,573
TOTAL LONG-TERM LIABILITIES		794,371		791,705
TOTAL LIABILITIES		989,533		949,457
DEFERRED INFLOWS OF RESOURCES				
Differences between expected and actual experience:				
OPEB plans		5,541		6,343
Pension plan		1,226		1,281
Changes of assumptions:				
OPEB plans		1,574		1,852
Pension plan		526		1,388
Net difference between projected and actual earnings on:				
OPEB plan investments		8,984		703
Pension plan investments		-		1,848
Change in proportion, OPEB plans		51		1
TOTAL DEFERRED INFLOWS OF RESOURCES		17,902		13,416
NET POSITION				
Net investment in capital assets		776,253		646,505
Restricted for debt service		30,455		28,155
Unrestricted		144,116		195,247
TOTAL NET POSITION		950,824		869,907
TOTAL LIABILITIES, DEFERRED INFLOWS OF RESOURCES				
AND NET POSITION	\$	1,958,259	\$	1,832,780



#### STATEMENTS OF REVENUES, EXPENSES AND CHANGES IN NET POSITION FOR THE FISCAL YEARS ENDED JUNE 30, 2021 and 2020

(in thousands)		
	2021	2020
OPERATING REVENUES		
Wastewater treatment charges	\$ 325,81	7 \$ 318,585
Miscellaneous	3,95	2 3,447
TOTAL OPERATING REVENUES	329,769	9 322,032
OPERATING EXPENSES		
Wastewater treatment	132,820	0 122,393
General and administrative	48,69	1 46,949
Depreciation and amortization	53,278	8 51,383
TOTAL OPERATING EXPENSES	234,789	9 220,725
OPERATING INCOME	94,98	0 101,307
NON-OPERATING REVENUES (EXPENSES)		
Wastewater facility charges	7,379	9 6,444
Investment income	47	1 5,876
Bond interest subsidy	2,16	7 2,205
Bond issuance costs	(683	
Capital distributions to localities	(37)	3) -
Disposal of capital assets		- (739)
Interest expense	(25,339	9) (26,179)
NET NON-OPERATING EXPENSES	(16,38)	0) (13,683)
INCOME BEFORE CAPITAL CONTRIBUTIONS	78,600	0 87,624
CAPITAL CONTRIBUTIONS		
Other capital contributions	2,31	7 578
CAPITAL CONTRIBUTIONS	2,31	7 578
CHANGE IN NET POSITION	80,91	7 88,202
TOTAL NET POSITION - Beginning	869,90	7 781,705
TOTAL NET POSITION - Ending	\$ 950,82	4 \$ 869,907

### STATEMENTS OF CASH FLOWS FOR THE FISCAL YEARS ENDED JUNE 30, 2021 and 2020

(in thousands)		2021		2020
CASH FLOWS FROM OPERATING ACTIVITIES		2021		2020
Cash received from customers	\$	302,160	\$	320,147
Cash received from CARES Act		4,163		-
Other operating revenues		3,952		3,447
Cash payments to suppliers for goods and services		(119,627)		(105,554)
Cash payments to employees for services		(59,675)		(58,734)
Net cash provided by operating activities		130,973		159,306
CASH FLOWS FROM NONCAPITAL FINANCING ACTIVITIES				
Capital distributions to localities		(376)		
CASH FLOWS FROM CAPITAL AND RELATED FINANCING ACTIVITIES				
Wastewater facility charges		7,379		6,444
Acquisition and construction of property, plant and equipment		(180,623)		(136,586)
Proceeds from capital debt		60,751		29,238
Bond interest subsidy		2,167		2,205
Principal paid on capital debt		(42,206)		(28,743)
Funds for cash defeasance Other capital contributions		- 2,317		(65,352) 578
Bond issuance costs		(682)		(1,290)
Fees paid on interim financing		(82)		(1,290)
Interest paid on capital debt		(27,007)		(30,268)
Net cash used in capital and related financing activities		(177,986)		(223,788)
Not oddin dood in outside and rolated interioring dodivided		(111,000)		(220,100)
CASH FLOWS FROM INVESTING ACTIVITIES		47.4		5.070
Interest and dividends on investments		471		5,876
NET DECREASE IN CASH AND CASH EQUIVALENTS AND CASH AND CASH EQUIVALENTS - RESTRICTED		(46,918)		(58,606)
CASH AND CASH EQUIVALENTS, AND CASH AND CASH EQUIVALENTS - RESTRICTED, AT BEGINNING OF YEAR		268,265		326,871
CASH AND CASH EQUIVALENTS, AND CASH AND CASH EQUIVALENTS - RESTRICTED, AT END OF YEAR	\$	221,347	\$	268,265
Reconciliation of Operating Income to Net Cash Provided by Operating Activities (in thousands)				
Operating income	\$	94,980	\$	101,307
Adjustments to reconcile operating income to net cash provided by operating activities:	Ψ	34,300	Ψ	101,307
Depreciation and amortization		53,278		51,383
(Increase) decrease in operating assets:		,		, , , , , , , , ,
Accounts receivable		(17,952)		3,799
Inventory		1,825		30
Net change in other current assets		(1,686)		172
Increase (decrease) in operating liabilities:				
Trade and contracts payable		1,212		226
Accrued salaries and wages		241		451
Compensated absences		334		481
Net change in other liabilities		(657)		2,645
OPEB liabilities		(3,240)		(1,744)
Pension liabilities		2,638		556
NET CASH PROVIDED BY OPERATING ACTIVITIES	\$	130,973	\$	159,306
Noncash Capital and Related Financing Activities:				
	\$	-	\$	205,675
Proceeds of refunding debt principal		-		(219,721)
Refunding of debt principal				
Refunding of debt principal Accrual for capital expenditures		18,388		11,703
Refunding of debt principal Accrual for capital expenditures Amortization of premium		(3,719)		(42,599)
Refunding of debt principal Accrual for capital expenditures				



#### STATEMENTS OF FIDUCIARY NET POSITION FOR THE FISCAL YEARS ENDED JUNE 30, 2021 and 2020

(in thousands)				_			
	Retiree Health (OPEB) Trust Fund				ef Custodial Fund		
ASSETS		2021	 2020		2021	2020	
Cash and cash equivalents	\$	98	\$ 187	\$	1,542	\$	
Investments at fair value							
Domestic equity		29,467	21,315		_		
International equity		15,208	10,605		_		
Other growth		_	1,424		_		
Fixed income		22,058	20,969		_		
Other income		2,632	2,412		_		
Real return		2,203	-		-		
Total investments		71,568	56,725				
TOTAL ASSETS	\$	71,666	\$ 56,912	\$	1,542	\$	
NET POSITION							
Restricted for:							
Postretirement benefits other than pensions		71,666	56,912		-		
CARES ACT payments for utility customers		-	-		1,542		-
TOTAL NET POSITION	\$	71,666	\$ 56,912	\$	1,542	\$	

**INTRODUCTORY** 

SECTION

#### STATEMENTS OF CHANGES IN FIDUCIARY NET POSITION FOR THE FISCAL YEARS ENDED JUNE 30, 2021 and 2020

(in thousands)								
	Retiree Health (OPEB) Trust Fund			Coronavirus Relief Custodial Fund				
	2021 2020		2020	2021		2020		
ADDITIONS:								
Contributions:								
Employers	\$	1,963	\$	2,730	\$	-	\$	
CARES Act				<u>-</u>		9,053		
Total contributions		1,963		2,730		9,053		
Net investment earnings		14,216		3,343				
Total additions		16,179		6,073		9,053		
DEDUCTIONS:								
Benefit payments for participants		1,425		1,186		-		
Payments for customers		-		-		7,511		
Total deductions		1,425		1,186		7,511		
Net increase in fiduciary net position		14,754		4,887		1,542		
Net position - beginning		56,912		52,025				
NET POSITION - ENDING	\$	71,666	\$	56,912	\$	1,542	\$	

#### NOTES TO THE FINANCIAL STATEMENTS

#### **NOTES TO FINANCIAL STATEMENTS**

#### **NOTE 1 - GENERAL INFORMATION**

#### Organization and Administration

The Hampton Roads Sanitation District (HRSD) was created by the Virginia General Assembly in 1940, as a political subdivision of the Commonwealth of Virginia (the Commonwealth), to construct, maintain, and operate a wastewater treatment system in the Hampton Roads area. The Hampton Roads Sanitation District Commission (the Commission) is HRSD's governing body and consists of eight members, appointed by the Governor. The Commission's functions were updated by Chapter 66 of the Acts of the Assembly of Virginia of 1960, as amended. The administration of HRSD is under the direction of a General Manager, supported by eight department directors.

#### Regulatory Oversight

HRSD's operations are subject to regulations established by the United States Environmental Protection Agency and the Virginia Department of Environmental Quality. HRSD currently meets all of its permit requirements. Changes in these regulations could require HRSD to modify its treatment processes and require additional capital investment and/ or incur additional costs.

#### Purpose of HRSD

HRSD was created for the specific purpose of abating pollution in the Hampton Roads area through the interception of wastewater outfalls, installation of interception service into new areas as necessary and providing treatment facilities. HRSD provides points of interception throughout the region. The responsibility of providing lateral sewers and subtrunk facilities to carry sewage from industries, residences and businesses is generally the responsibility of the local municipal governments.

#### Corporate Limits of HRSD

The geographical limits of HRSD include:

City of Chesapeake	City of Virginia Beach	King William County
City of Hampton	City of Williamsburg	Mathews County
City of Newport News	Accomack County	Middlesex County
City of Norfolk	Gloucester County	Northampton County
City of Poquoson	Isle of Wight County	Surry County*

City of Suffolk King and Queen County \*Excluding the Town of Claremont

James City County

#### NOTE 2 – SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

#### Reporting Entity

City of Portsmouth

HRSD is a political subdivision of the Commonwealth and a government instrumentality. The Commission is granted corporate powers by the *Code of Virginia*. The Governor of the Commonwealth appoints the Commission members, who serve at his pleasure. HRSD is reported in the Commonwealth's Comprehensive Annual Financial Report as a discretely presented component unit. The Commonwealth is not obligated to repay HRSD's debt. HRSD derives its revenues primarily from charges for wastewater treatment services. HRSD has no taxing authority. The Retiree Health Plan, as further described under Postemployment Benefits Other Than Pensions in this note and in Note 7, meets the requirements of GASB 84 for inclusion in the fiduciary fund financial statements and, since HRSD has assumed responsibility to make contributions to the plan, it also meets the requirements of a fiduciary component unit.

#### Basis of Accounting

The accompanying financial statements report the financial position and results of operations of HRSD in accordance with accounting principles generally accepted in the United States of America (GAAP). Because HRSD is a

York County

STATISTICAL SECTION (UNAUDITED) OTHER SUPPLEMENTAL SECTION (UNAUDITED)

political subdivision of the Commonwealth, the preparation of HRSD's financial statements are governed by the pronouncements of the Governmental Accounting Standards Board (GASB). These statements are prepared on an enterprise fund basis and present HRSD's operating revenues and expenses in a manner similar to a private business, where the costs, including depreciation, of providing services to the general public on a continuing basis are financed or recovered primarily through user charges.

An enterprise fund, a proprietary fund type, is accounted for on an economic resources measurement focus. All assets and liabilities, whether current or noncurrent, associated with its activities are included on its Statements of Net Position. Proprietary fund type operating statements present increases (revenues) and decreases (expenses) in fund equity. The financial statements are presented using the accrual basis of accounting, whereby revenues are recognized when earned and expenses are recognized when incurred.

#### Budgetary Accounting and Control

HRSD operates in accordance with annual operating and capital budgets prepared on a basis of accounting that is different from generally accepted accounting principles. The operating budget is adopted by department, with budgetary controls exercised administratively by management at the department level. The General Manager is authorized to transfer funds among departments without further approval by the Commission. The Capital Budget represents a ten-year plan. Funds for the Capital Budget are appropriated throughout a fiscal year on a project basis. Transfers among projects require approval by the Commission. Appropriations for these budgets continue until the purpose of the appropriation has been fulfilled.

#### **Fiduciary Activities**

As discussed under New Accounting Pronouncement in this note and in Note 14, HRSD adopted GASB Statement No. 84, *Fiduciary Activities*, and has prepared fiduciary fund financial statements for the fiscal years ended June 30, 2021 and 2020. The statements include information on the Retiree Health Plan, one of HRSD's three postemployment benefits other than pensions (other postemployment benefits, or OPEB) plans, and information on funds held by HRSD to apply toward customer accounts under the Coronavirus Aid, Relief, and Economic Securities Act.

#### Cash Equivalents

All short-term investments that are highly liquid are considered to be cash equivalents. Cash equivalents are readily convertible to cash, and at the day of purchase, have an original maturity date of no longer than three months. Current restricted cash and cash equivalents are for debt service payments payable within the next year. Money market investments include the VACo/VML Virginia Investment Pool's (VIP) 1-3 Year High Quality Bond Fund and Stable NAV Liquidity Pool, which are recorded at amortized cost, which approximates fair value. See Note 3 and Note 13 for additional discussion of cash and cash equivalent and investment valuations.

#### <u>Investments</u>

Investments, which consist of U.S. government obligations including agencies, FDIC-guaranteed corporate notes, other corporate notes and bonds, and municipal bonds, are reported at fair value. HRSD's investment practices are governed by its formal investment policy. The HRSD Retiree Health Plan (RHP) investments consist of domestic equity, international equity, fixed income, other income, real return funds and money market instruments. See Note 3 for additional information on RHP investments.

#### Allowance for Uncollectible Accounts

HRSD provides an allowance for estimated uncollectible accounts receivable based on its bad debt experience. The balance in the allowance for uncollectible accounts is considered by management to be sufficient to cover anticipated losses on reported receivable balances.

#### Inventory

Inventory is carried at the lower of cost or market value and consists primarily of operating and maintenance materials.

#### Property, Plant and Equipment

HRSD funds its capital improvement program through the issuance of debt and its own resources. The proceeds of debt are reported as restricted assets. Generally, for projects funded with both debt proceeds and other resources, it is HRSD's policy to use available debt proceeds to pay project expenditures prior to using its own resources.

Property, plant and equipment purchased or constructed are reported at cost, including interest cost on funds borrowed to finance the construction of major capital additions. The capitalization threshold is \$5,000. Donated assets

#### NOTES TO THE FINANCIAL STATEMENTS

are reported at acquisition value at the date of donation. Property, plant and equipment are depreciated using the straight-line method over the following estimated useful lives:

Treatment plants, buildings and facilities	30 years
Interceptor systems	50 years
Office furniture and equipment	5-10 years
Software and intangible assets	5-7 years
Automotive	5 years

Depreciation and amortization recognized on property, plant and equipment is an operating expense.

#### Deferred Outflows and Inflows of Resources

In addition to assets, the Statements of Net Position reports a separate section for deferred outflows of resources. This separate financial statement element, deferred outflows of resources, represents a consumption of net position that applies to future periods and so will not be recognized as an outflow of resources (expenses) until then. HRSD has eight items that qualify for reporting in this category. The first is the deferred loss on refunding reported in the Statements of Net Position. A deferred loss on refunding results from the difference in the carrying value of refunded debt and its reacquisition price. This amount is deferred and amortized over the shorter of the life of the refunded or refunding debt. The second through sixth amounts are: differences between expected and actual experience on the other postemployment benefits (OPEB) and pension plans; changes of OPEB and pension assumptions; and the changes in proportion for OPEB plans. These differences will be recognized in pension expense in future reporting periods. The seventh and eighth deferred charges are for OPEB and pension contributions to the Virginia Retirement System (VRS) made subsequent to the measurement dates of June 30, 2020 and 2019. These contributions will be recognized as reductions of the Net OPEB and Net Pension Liabilities during the years ended June 30, 2022 and 2021, respectively.

In addition to liabilities, the Statements of Net Position reports a separate section for deferred inflows of resources. This separate financial statement element, deferred inflows of resources, represents an acquisition of net position that applies to a future period and so will not be recognized as an inflow of resources (revenue) until that time. HRSD has seven items that qualify for reporting in this category: the differences between expected and actual experience for OPEB and pension plans; the changes of OPEB and pension assumptions; the net difference between projected and actual earnings on OPEB and pension plan investments; and change in proportion for OPEB investments. These items will be recognized in pension expense in future reporting periods.

#### Revenue Recognition

Generally, wastewater treatment charges are computed based on a user's water consumption. These charges are recognized as revenue when billed. Revenues earned but unbilled through June 30 of each fiscal year are accrued at year-end. Wastewater facility charges are computed based on a new connection's water meter size and potential for high strength pollutant discharges, and are recognized as revenue prior to the issuance of a building or operating permit.

#### Operating and Non-operating Revenues and Expenses Recognition

HRSD distinguishes operating revenues and expenses from non-operating items. Operating revenues and expenses result from providing services and producing and delivering goods in connection with HRSD's principal service of providing wastewater treatment. The majority of operating revenues are from wastewater treatment, but other associated miscellaneous income from other related services and charges are also included. Revenues and expenses not meeting the operating definition are reported as non-operating. These consist mainly of wastewater facility charges, investment income, capital contributions and interest expense.

#### Compensated Absences

All permanent employees earn leave upon starting a full-time position. The amount and type of leave earned is based upon the employee's date of hire and years of service and is expensed as employees earn the right to these benefits.

Permanent employees hired prior to January 1, 2014 earn from 15 to 27 days of annual leave per year. The maximum annual leave an employee may accumulate at year-end varies by the years of service, with the maximum being 54

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days. An employee has a vested right to their annual leave when earned. These employees also earn eight hours per month of sick leave regardless of the number of years of service. The amount of sick leave that may be accumulated is unlimited. After five years of service with HRSD, an employee has vested rights to 35 percent of accumulated sick leave to a maximum of \$10,000. For these employees, long-term disability (LTD) insurance is an optional employee paid benefit that replaces part of their income if the employee suffers a serious illness or injury and can't work for an extended period of time.

Permanent employees hired after January 1, 2014 earn 8 hours of paid time off for each two-week pay period. Employees may use accumulated paid time off for any type of absence from work, subject to supervisor approval. The maximum paid time off an employee may accumulate at year-end is 208 hours. After five years of service with HRSD, an employee has vested rights to 50 percent of their accumulated paid time off at separation. For these employees, HRSD also provides a state mandated long-term disability (LTD) benefit since these employees are not eligible for disability retirement benefits through VRS. The long-term disability benefit provides income replacement for employees who become disabled and unable to work for an extended period of time due to a non-work-related or work-related condition (as determined under the Virginia Workers' Compensation Act). Long-term disability benefits begin at the expiration of an additional state mandated employer paid short-term disability (STD) benefit period of 125 days.

Postemployment Benefits Other Than Pensions (OPEB)

HRSD employees participate in three postemployment benefits other than pensions (other postemployment benefits or OPEB) plans:

The HRSD RHP is a single employer, defined benefit plan that provides health and dental benefit plans for eligible members through a self-funded plan administered by a third-party vendor. HRSD administers the Plan through the Hampton Roads Sanitation District Retiree Health Trust. For purposes of measuring the net OPEB liability, deferred outflows of resources and deferred inflows of resources related to OPEB, and OPEB expense, information about the fiduciary net position of the RHP and additions to/deductions from the plan's fiduciary net position have been determined on the same basis as they are reported by the RHP. For this purpose, the RHP recognizes benefit payments when due and payable in accordance with the benefit terms.

The VRS Political Subdivision Health Insurance Credit Program (HIC) is a multiple-employer, agent-defined benefit plan that provides a credit toward the cost of health insurance coverage for retired political subdivision employees of participating employers. The Political Subdivision HIC Program was established pursuant to §51.1-1400 et seq. of the Code of Virginia, as amended, and which provides the authority under which benefit terms are established or may be amended. For purposes of measuring the net HIC OPEB liability, deferred outflows of resources and deferred inflows of resources related to the HIC OPEB, and the HIC OPEB expense, information about the fiduciary net position of the VRS HIC; and the additions to/deductions from the VRS HIC's fiduciary net position have been determined on the same basis as they were reported by VRS. For this purpose, benefit payments are recognized when due and payable in accordance with the benefit terms. Investments are reported at fair value.

The VRS Group Life Insurance (GLI) Program is a multiple employer, cost sharing plan, that provides coverage to state employees, teachers, and employees of participating political subdivisions. The GLI Program was established pursuant to §51.1-500 et seq. of the Code of Virginia, as amended, and which provides the authority under which benefit terms are established or may be amended. The GLI Program is a defined benefit plan that provides a basic group life insurance benefit for employees of participating employers. For purposes of measuring the net GLI Program OPEB liability, deferred outflows of resources and deferred inflows of resources related to the GLI Program OPEB, and GLI Program OPEB expense, information about the fiduciary net position of the VRS GLI Program OPEB and the additions to/deductions from the VRS GLI Program OPEB's fiduciary net position have been determined on the same basis as they were reported by VRS. In addition, benefit payments are recognized when due and payable in accordance with the benefit terms. Investments are reported at fair value.

#### <u>Pensions</u>

HRSD employees participate in an agent multiple-employer defined benefit pension plan administered by the VRS, which acts as a common investment and administrative agent for political subdivisions in the Commonwealth. For purposes of measuring the net pension liability, deferred outflows of resources and deferred inflows of resources related to pensions, and pension expense, information about the fiduciary net position of HRSD's Retirement Plan and the additions to or deductions from HRSD's Retirement Plan's net fiduciary position have been determined on the same basis as they were reported to HRSD by VRS. For this purpose, benefit payments (including refunds of employee contributions) are recognized when due and payable in accordance with the benefit terms.

#### Use of Estimates

The preparation of these financial statements requires management to make estimates and assumptions. These estimates affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of revenues and expenses during the reporting period. Actual results may differ from management's estimates.

## New Accounting Pronouncement

During the fiscal year ended June 30, 2021, HRSD adopted GASB Statement No. 84, *Fiduciary Activities*, effective July 1, 2020. 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. Additional information is included in Note 14.

#### **NOTE 3 - DEPOSITS AND INVESTMENTS**

#### Deposits

Custodial Credit Risk. This risk is associated with the inability of a governmental entity to recover deposits from a financial institution in the event of a failure. At June 30, 2021 and 2020, the carrying values of HRSD's deposits were \$48,943,000 and \$24,703,000, respectively, and the bank balances were \$47,808,000 and \$21,883,000, respectively. All of the bank balances at June 30, 2021 were covered by federal depository insurance or collateralized in accordance with the Virginia Security for Public Deposits Act (the Act). In accordance with the Act, the depository institution pledged collateral in the form of federal obligations with a fair value equal to 110 percent of HRSD's deposits with a third party trustee in the name of the Treasurer of the Commonwealth. In the event that the banking institution fails, the Treasurer will take possession of the collateral, liquidate it and reimburse HRSD up to the value of its deposits. The State Treasury Board is responsible for monitoring compliance with the collateralization and reporting requirements of the Act and for notifying local governments of compliance by banks.

Credit Risk. HRSD invests in VACo/VML Virginia Investment Pool's (VIP) 1-3 Year High Quality Bond Fund and Stable NAV Liquidity Pool. Oversight is provided by the VACo/VML Board of Trustees. HRSD's investments in the VIP 1-3 Year High Quality Bond Fund and the VIP Stable NAV Liquidity Pool were rated AA+f/S1 and AAAm, respectively, by Standard & Poor's.

The components of restricted cash and cash equivalents at June 30 are as follows:

(in thousands)	 2021	2020
Debt service	\$ 30,455	\$ 28,155
Total cash and cash equivalents - restricted	\$ 30,455	\$ 28,155

## **HRSD OPEB Trust Investments**

INTRODUCTORY

SECTION

The HRSD OPEB Trust has investments in mutual funds, cash, and cash equivalents on deposit with its trustee, US Bank. Investments are reported at fair value. HRSD's OPEB investment practices are governed by its formal investment policy.

The plan had the following investments and maturities at June 30:

(in thousands)	2021	2020
Domestic equity	\$ 29,467	\$ 21,315
International equity	15,208	10,605
Other growth	-	1,424
Fixed income	22,058	20,969
Other income	2,632	2,412
Real Return	2,203	-
Money market	98	187
Total Investments	\$ 71,666	56,912

Fixed income investments have an average maturity of 7.74 years and an average credit quality of A. Other investments do not have a stated maturity or credit rating.

Custodial Credit Risk. For an investment, custodial credit risk is the risk that, in the event of the failure of the counterparty, HRSD will not be able to recover the value of its investments or collateral securities that are in the possession of an outside party. HRSD's policy is to utilize its Trustee, U.S. Bank Trust Department, for its OPEB investments as recipient of all investment transactions on a delivery versus pay basis. The Trustees may not be a counterparty to the investment transaction. At June 30, 2021, the Trust Department of the U.S. Bank held \$70,528,000 in investments in the Trustee's name for HRSD. The difference between reported and U.S. Bank Trust valuation is the value of the Boyd Watterson security. U.S. Bank Trust value is lagging as they update those funds when they receive notice.

# **NOTE 4 - ALLOWANCE FOR UNCOLLECTIBLE ACCOUNTS**

An analysis of the allowance for uncollectible accounts for the years ended June 30:

(in thousands)	 2021	2020
Balance, beginning of year	\$ 2,822 \$	2,689
Add: Current provision for uncollectible accounts	2,033	2,237
Less: Charge-off of uncollectible accounts	(2,171)	(2,104)
Balance, end of year	\$ 2,684 \$	2,822

HRSD's collection ratios for the years ended June 30, 2021 and 2020 was 99.3% for each year.

#### **NOTE 5 - PROPERTY, PLANT AND EQUIPMENT**

Analysis of property, plant and equipment activity for years ended June 30:

Non-Depreciable Capital Assets	(in thousands)	Balance 2019	P	Additions	ransfers/ etirements	Balance 2020	A	Additions		Additions		Additions		Transfers/ Retirements		Balance 2021
Construction in progress   294,531   152,253   (156,199)   290,585   198,597   (206,036)   283,146     Construction in progress   294,531   152,253   (156,199)   290,585   198,597   (206,036)   283,146     Construction in progress   294,531   152,253   (156,199)   290,585   198,597   (206,036)   283,146     Construction in progress   294,531   152,253   294,532   75,945   - 1,460,238     Interceptor systems   619,068   19,546   (464)   638,150   87,450   - 725,600     Buildings   49,132   - (1,051)   48,081   155   - 48,236     Small community facilities   25,625   25,625   25,625     Office equipment   44,613   44,613   436   - 45,049     Automotive   18,540   587   - 19,127   806   - 19,933     Other equipment   36,887   630   - 37,517   11,382   - 48,899     Software and intangible assets   40,074   40,074   40,074     Total   2,338,541   308,771   (158,018)   2,540,294   406,200   (206,036)   2,740,458      Less Accumulated Depreciation and Amortization   Amortization     Treatment plants   (699,252   (30,232   - (729,484   (34,578   - (764,062   161,062   161,062   161,062   161,062   161,062   161,062   161,062   161,062     Interceptor systems   (178,832   (11,946   - (190,778   (12,422   - (203,200)   161,062   1	Non-Depreciable Capital Assets															
Depreciable Capital Assets   Treatment plants	Land	\$ 12,174	\$	55	\$ -	\$ 12,229	\$	31,429	\$	-	\$	43,658				
Treatment plants   1,248,897   135,700   (304)   1,384,293   75,945   - 1,460,238     Interceptor systems   619,068   19,546   (464)   638,150   87,450   - 725,600     Buildings   49,132   - (1,051)   48,081   155   - 48,236     Small community facilities   25,625   - 2, 25,625   - 2, 25,625     Office equipment   44,613   - 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3,	Construction in progress	294,531		152,253	(156,199)	290,585		198,597		(206,036)		283,146				
Treatment plants   1,248,897   135,700   (304)   1,384,293   75,945   - 1,460,238     Interceptor systems   619,068   19,546   (464)   638,150   87,450   - 725,600     Buildings   49,132   - (1,051)   48,081   155   - 48,236     Small community facilities   25,625   - 2 (25,625   - 25,625     Office equipment   44,613   - 3 (44,613   436   - 45,049     Automotive   18,540   587   - 19,127   806   - 19,933     Other equipment   36,887   630   - 37,517   11,382   - 48,899     Software and intangible assets   40,074   - 2 (40,074	Denreciable Canital Assets															
Interceptor systems		1 248 897		135 700	(304)	1 384 293		75 945		_		1 460 238				
Buildings	•	, ,			, ,					_						
Small community facilities         25,625         -         25,625         -         25,625           Office equipment         44,613         -         -         44,613         436         -         45,049           Automotive         18,540         587         -         19,127         806         -         19,933           Other equipment         36,887         630         -         40,074         -         -         40,074           Total         2,389,541         308,771         (158,018)         2,540,294         406,200         (206,036)         2,740,458           Less Accumulated Depreciation and Amortization           Treatment plants         (699,252)         (30,232)         -         (729,484)         (34,578)         -         (764,062)           Interceptor systems         (178,832)         (11,946)         -         (190,778)         (12,422)         -         (203,200)           Buildings         (19,515)         (1,519)         258         (20,776)         (1,439)         -         (22,215)           Small community facilities         (8,403)         (550)         -         (8,953)         (549)         -         (9,502)           Office equipm	. ,	,		-	, ,			•		_						
Office equipment         44,613         -         -         44,613         436         -         45,049           Automotive         18,540         587         -         19,127         806         -         19,933           Other equipment         36,887         630         -         37,517         11,382         -         48,899           Software and intangible assets         40,074         -         -         40,074         -         -         40,074           Total         \$2,389,541         \$308,771         \$(158,018)         \$2,540,294         \$406,200         \$(206,036)         \$2,740,458           Less Accumulated Depreciation and Amortization           Treatment plants         (699,252)         (30,232)         -         (729,484)         (34,578)         -         (764,062)           Interceptor systems         (178,832)         (11,946)         -         (190,778)         (12,422)         -         (203,200)           Buildings         (8,403)         (550)         -         (8,953)         (549)         -         (22,215)           Small community facilities         (8,403)         (550)         -         (8,953)         (549)         -         (9,502)	•	•		-		,		-		-						
Automotive 18,540 587 - 19,127 806 - 19,933 Other equipment 36,887 630 - 37,517 11,382 - 48,899 Software and intangible assets 40,074 - 4 - 40,074	•	44,613		-	-			436		-		45,049				
Other equipment         36,887         630         -         37,517         11,382         -         48,899           Software and intangible assets         40,074         -         -         40,074         -         -         40,074         -         -         40,074         -         -         40,074         -         -         40,074         -         -         40,074         -         -         40,074         -         -         40,074         -         -         40,074         -         -         40,074         -         -         40,074         -         -         40,074         -         -         40,074         -         -         40,020         \$ 206,036         \$ 2,740,458         -         -         -         -         40,200         \$ 206,036         \$ 2,740,458         - <td< td=""><td></td><td>18,540</td><td></td><td>587</td><td>-</td><td>19,127</td><td></td><td>806</td><td></td><td>-</td><td></td><td>19,933</td></td<>		18,540		587	-	19,127		806		-		19,933				
Total         \$ 2,389,541         \$ 308,771         \$ (158,018)         \$ 2,540,294         \$ 406,200         \$ (206,036)         \$ 2,740,458           Less Accumulated Depreciation and Amortization           Treatment plants         (699,252)         (30,232)         - (729,484)         (34,578)         - (764,062)           Interceptor systems         (178,832)         (11,946)         - (190,778)         (12,422)         - (203,200)           Buildings         (19,515)         (1,519)         258         (20,776)         (1,439)         - (22,215)           Small community facilities         (8,403)         (550)         - (8,953)         (549)         - (9,502)           Office equipment         (43,100)         (759)         - (43,859)         (402)         - (44,261)           Automotive         (16,599)         (812)         - (17,411)         (807)         - (18,218)           Other equipment         (30,880)         (2,328)         - (33,208)         (1,692)         - (34,900)           Software and intangible assets         - (37,870)         (1,389)         - (39,259)           Total         (1,031,214)         (51,383)         258         (1,082,339)         (53,278)         - (1,1,135,617)           Net Property,	Other equipment	36,887		630	-			11,382		-		48,899				
Less Accumulated Depreciation and Amortization         Treatment plants       (699,252)       (30,232)       - (729,484)       (34,578)       - (764,062)         Interceptor systems       (178,832)       (11,946)       - (190,778)       (12,422)       - (203,200)         Buildings       (19,515)       (1,519)       258       (20,776)       (1,439)       - (22,215)         Small community facilities       (8,403)       (550)       - (8,953)       (549)       - (9,502)         Office equipment       (43,100)       (759)       - (43,859)       (402)       - (44,261)         Automotive       (16,599)       (812)       - (17,411)       (807)       - (18,218)         Other equipment       (30,880)       (2,328)       - (33,208)       (1,692)       - (34,900)         Software and intangible assets       - (37,870)       (1,389)       - (39,259)         Total       (1,031,214)       (51,383)       258       (1,082,339)       (53,278)       - (1,135,617)         Net Property, Plant and	Software and intangible assets	40,074		-	-	40,074		-		-		40,074				
Amortization           Treatment plants         (699,252)         (30,232)         - (729,484)         (34,578)         - (764,062)           Interceptor systems         (178,832)         (11,946)         - (190,778)         (12,422)         - (203,200)           Buildings         (19,515)         (1,519)         258         (20,776)         (1,439)         - (22,215)           Small community facilities         (8,403)         (550)         - (8,953)         (549)         - (9,502)           Office equipment         (43,100)         (759)         - (43,859)         (402)         - (44,261)           Automotive         (16,599)         (812)         - (17,411)         (807)         - (18,218)           Other equipment         (30,880)         (2,328)         - (33,208)         (1,692)         - (34,900)           Software and intangible assets         - (34,633)         (3,237)         - (37,870)         (1,389)         - (39,259)           Total         (1,031,214)         (51,383)         258         (1,082,339)         (53,278)         - (1,135,617)           Net Property, Plant and         - (30,252)         - (1,082,339)         (53,278)         - (1,135,617)	Total	\$ 2,389,541	\$	308,771	\$ (158,018)	\$ 2,540,294	\$	406,200	\$	(206,036)	\$	2,740,458				
Amortization           Treatment plants         (699,252)         (30,232)         - (729,484)         (34,578)         - (764,062)           Interceptor systems         (178,832)         (11,946)         - (190,778)         (12,422)         - (203,200)           Buildings         (19,515)         (1,519)         258         (20,776)         (1,439)         - (22,215)           Small community facilities         (8,403)         (550)         - (8,953)         (549)         - (9,502)           Office equipment         (43,100)         (759)         - (43,859)         (402)         - (44,261)           Automotive         (16,599)         (812)         - (17,411)         (807)         - (18,218)           Other equipment         (30,880)         (2,328)         - (33,208)         (1,692)         - (34,900)           Software and intangible assets         - (34,633)         (3,237)         - (37,870)         (1,389)         - (39,259)           Total         (1,031,214)         (51,383)         258         (1,082,339)         (53,278)         - (1,135,617)           Net Property, Plant and         - (30,252)         - (1,082,339)         (53,278)         - (1,135,617)	Loss Assumulated Depresiation	 and														
Interceptor systems (178,832) (11,946) - (190,778) (12,422) - (203,200) Buildings (19,515) (1,519) 258 (20,776) (1,439) - (22,215) Small community facilities (8,403) (550) - (8,953) (549) - (9,502) Office equipment (43,100) (759) - (43,859) (402) - (442,61) Automotive (16,599) (812) - (17,411) (807) - (18,218) Other equipment (30,880) (2,328) - (33,208) (1,692) - (34,900) Software and intangible assets -amortization (3,4633) (3,237) - (37,870) (1,389) - (39,259) Total (1,031,214) (51,383) 258 (1,082,339) (53,278) - (1,135,617) Net Property, Plant and		ariu_														
Buildings         (19,515)         (1,519)         258         (20,776)         (1,439)         - (22,215)           Small community facilities         (8,403)         (550)         - (8,953)         (549)         - (9,502)           Office equipment         (43,100)         (759)         - (43,859)         (402)         - (44,261)           Automotive         (16,599)         (812)         - (17,411)         (807)         - (18,218)           Other equipment         (30,880)         (2,328)         - (33,208)         (1,692)         - (34,900)           Software and intangible assets         - (34,633)         (3,237)         - (37,870)         (1,389)         - (39,259)           Total         (1,031,214)         (51,383)         258         (1,082,339)         (53,278)         - (1,135,617)           Net Property, Plant and         - (30,200)         - (30,200)         - (30,200)         - (30,200)         - (30,200)	Treatment plants	(699,252)	)	(30,232)	-	(729,484)		(34,578)		-		(764,062)				
Small community facilities         (8,403)         (550)         -         (8,953)         (549)         -         (9,502)           Office equipment         (43,100)         (759)         -         (43,859)         (402)         -         (44,261)           Automotive         (16,599)         (812)         -         (17,411)         (807)         -         (18,218)           Other equipment         (30,880)         (2,328)         -         (33,208)         (1,692)         -         (34,900)           Software and intangible assets         -amortization         (34,633)         (3,237)         -         (37,870)         (1,389)         -         (39,259)           Total         (1,031,214)         (51,383)         258         (1,082,339)         (53,278)         -         (1,135,617)           Net Property, Plant and         -	Interceptor systems	(178,832	)	(11,946)	-	(190,778)		(12,422)		-		(203,200)				
Office equipment (43,100) (759) - (43,859) (402) - (44,261) Automotive (16,599) (812) - (17,411) (807) - (18,218) Other equipment (30,880) (2,328) - (33,208) (1,692) - (34,900) Software and intangible assets -amortization (34,633) (3,237) - (37,870) (1,389) - (39,259) Total (1,031,214) (51,383) 258 (1,082,339) (53,278) - (1,135,617) Net Property, Plant and	Buildings	(19,515	)	(1,519)	258	(20,776)		(1,439)		-		(22,215)				
Automotive         (16,599)         (812)         - (17,411)         (807)         - (18,218)           Other equipment         (30,880)         (2,328)         - (33,208)         (1,692)         - (34,900)           Software and intangible assets         - (37,870)         (1,389)         - (39,259)           Total         (1,031,214)         (51,383)         258         (1,082,339)         (53,278)         - (1,135,617)           Net Property, Plant and         - (30,259)         - (30,259)         - (30,259)         - (30,259)         - (30,259)	Small community facilities	(8,403)	)	(550)	-	(8,953)		(549)		-		(9,502)				
Other equipment         (30,880)         (2,328)         - (33,208)         (1,692)         - (34,900)           Software and intangible assets -amortization Total Total Net Property, Plant and         (34,633)         (3,237)         - (37,870)         (1,389)         - (39,259)           Net Property, Plant and         (1,031,214)         (51,383)         258         (1,082,339)         (53,278)         - (1,135,617)	Office equipment	(43,100)	)	(759)	-	(43,859)		(402)		-		(44,261)				
Software and intangible assets       -amortization     (34,633)     (3,237)     - (37,870)     (1,389)     - (39,259)       Total     (1,031,214)     (51,383)     258     (1,082,339)     (53,278)     - (1,135,617)       Net Property, Plant and	Automotive	(16,599)	)	(812)	-	(17,411)		(807)		-		(18,218)				
-amortization         (34,633)         (3,237)         - (37,870)         (1,389)         - (39,259)           Total         (1,031,214)         (51,383)         258         (1,082,339)         (53,278)         - (1,135,617)           Net Property, Plant and         (39,259)         (53,278)         - (1,135,617)	Other equipment	(30,880)	)	(2,328)	-	(33,208)		(1,692)		-		(34,900)				
Total (1,031,214) (51,383) 258 (1,082,339) (53,278) - (1,135,617)  Net Property, Plant and	Software and intangible assets															
Net Property, Plant and	-amortization				-			(1,389)		_		(39,259)				
		(1,031,214)		(51,383)	258	 (1,082,339)		(53,278)		-		(1,135,617)				
Equipment \$ 1,358,327 \$ 257,388 \$ (157,760) \$ 1,457,955 \$ 352,922 \$ (206,036) \$ 1,604,841																
	Equipment	\$ 1,358,327	\$	257,388	\$ (157,760)	\$ 1,457,955	\$	352,922	\$	(206,036)	\$	1,604,841				

#### **NOTE 6 - COMPENSATED ABSENCES**

Analysis of liability for vested annual, sick, paid time off and compensatory leave for years ended June 30:

(in thousands)	В	alance			Balance			В	Balance
		2019	Earned	Taken	2020	Earned	Taken		2021
Annual leave	\$	4,844	3,721	\$ (3,300)	\$ 5,265	\$ 3,118	\$ (2,720)	\$	5,663
Sick leave		2,839	1,747	(1,543)	3,043	1,396	(1,575)		2,864
Paid time off		406	1,173	(1,317)	262	1,585	(1,470)		377
Total		8,089	6,641	\$ (6,160)	8,570	\$ 6,099	\$ (5,765)		8,904
Less: Current liability		5,888			6,160				5,765
Long-term liability	\$	2,201			\$ 2,410			\$	3,139

# NOTE 7 – POSTEMPLOYMENT BENEFITS OTHER THAN PENSIONS (OPEB)

# Plan Description

As discussed in Note 2, HRSD provides OPEB for its employees through three plans: the Hampton Roads Sanitation District RHP, a single employer defined benefit plan, and two plans administered by VRS, the GLI, a multiple employer cost-sharing plan, and the HIC, a multiple-employer, agent defined benefit plan.

#### RHP

The RHP was established and may be amended by the Commission. HRSD administers the RHP through the Hampton Roads Sanitation District Retiree Health Trust (the Trust), an irrevocable trust to be used solely for providing benefits to eligible retired employees and their beneficiaries (members) in the RHP. HRSD's contributions to the Trust are dedicated irrevocably to providing post-retirement health benefits, the RHP assets are exclusively dedicated to providing benefits to members, and the RHP assets of the Trust are not subject to the claims of HRSD creditors or the Plan administrator. Employer contributions are recorded in the year they are made. Investments are reported at market value based on published prices and quotations. The RHP does not issue stand-alone financial statements.

## Eligible Employees

HRSD employees are eligible for benefits upon retirement provided the employee has 15 years of service with HRSD or 10 years of service with HRSD plus 10 years of service with another VRS employer with a retiree health plan; are qualified for unreduced retirement benefits from VRS; and are enrolled in the HRSD Health Insurance Plan prior to retirement. Participating beneficiaries may continue coverage under the plan after the death of the retiree. Medicare eligible participants are required to enroll in both Medicare Part A and Part B, and may participate in a Medicare supplement plan. Members not eligible for Medicare may participate in a high deductible health plan.

# Benefits provided

The RHP health plan provides medical and prescription services using both in network and out of network providers through a self-funded plan administered by a third-party vendor. Members may elect to purchase dental and vision benefit plans at their own expense.

#### <u>GLI</u>

All full-time, salaried permanent employees of participating political subdivisions are automatically covered by the VRS GLI upon employment. This plan is administered by the VRS, along with pensions and other OBEB plans, for public employer groups in the Commonwealth of Virginia.

In addition to the Basic GLI benefit, members are also eligible to elect additional coverage for themselves as well as a spouse or dependent children through the Optional GLI Program. For members who elect the optional group life insurance coverage, the insurer bills employers directly for the premiums. Employers deduct these premiums from members' paychecks and pay the premiums to the insurer. Since this is a separate and fully insured program, it is not included as part of the GLI OPEB.

The specific information for GLI Program OPEB, including eligibility, coverage and benefits follows:

### Eligible Employees

The GLI Program was established July 1, 1960, for state employees, teachers and employees of political subdivisions that elect the program. Basic group life insurance coverage is automatic upon employment. Coverage ends for employees who leave their position before retirement eligibility or who take a refund of their member contributions and accrued interest.

#### Benefit Amounts

The benefits payable under the GLI Program have several components.

- Natural Death Benefit The natural death benefit is equal to the employee's covered compensation rounded to the next highest thousand and then doubled.
- Accidental Death Benefit The accidental death benefit is double the natural death benefit.
- Other Benefit Provisions In addition to the basic natural and accidental death benefits, the program provides additional benefits provided under specific circumstances. These include:
  - Accidental dismemberment benefit
  - Safety belt benefit
  - Repatriation benefit
  - Felonious assault benefit
  - Accelerated death benefit option

#### Reduction in Benefit Amounts

The benefit amounts provided to members covered under the GLI Program are subject to a reduction factor. The benefit amount reduces by 25% on January 1 following one calendar year of separation. The benefit amount reduces by an additional 25% on each subsequent January 1 until it reaches 25% of its original value.

## Minimum Benefit Amount and Cost-of-Living Adjustment (COLA)

For covered members with at least 30 years of creditable service, there is a minimum benefit payable under the GLI Program. The minimum benefit was set at \$8,000 by statute. This amount is increased annually based on the VRS Plan 2 cost-of-living adjustment and was increased to \$8,463 effective June 30, 2020.

# **HIC**

All full-time, salaried permanent employees of participating political subdivisions are automatically covered by the VRS Political Subdivision HIC Program upon employment. This plan is administered by the VRS, along with pension and other OPEB plans, for public employer groups in the Commonwealth of Virginia. Members earn one month of service credit toward the benefit for each month they are employed and for which their employer pays contributions to VRS. The health insurance credit is a tax-free reimbursement in an amount set by the General Assembly for each year of service credit against qualified health insurance premiums retirees pay for single coverage, excluding any portion covering the spouse or dependents. The credit cannot exceed the amount of the premiums and ends upon the retiree's death.

The specific information about the Political Subdivision HIC Program OPEB, including eligibility, coverage and benefits follows:

#### Eligible Employees

The Political Subdivision Retiree HIC Program was established July 1, 1993 for retired political subdivision employees of employers who elect the benefit and who retire with at least 15 years of service credit. Eligible employees of participating political subdivisions are enrolled automatically upon employment. They include full-time permanent salaried employees of the participating political subdivision who are covered under the VRS pension plan.

### Benefit Amounts

The political subdivision's Retiree HIC Program provides the following benefits for eligible employees:

- At Retirement For employees who retire, the monthly benefit is \$1.50 per year of service per month with a maximum benefit of \$45.00 per month.
- Disability Retirement For employees who retire on disability or go on long-term disability under the Virginia Local Disability Program (VLDP), the monthly benefit is \$45.00 per month.

### **HIC Program Notes:**

- The monthly HIC benefit cannot exceed the individual premium amount.
- No health insurance credit for premiums paid and qualified under the VRS Line of Duty Act Program (LODA), however, the employee may receive the credit for premiums paid for other qualified health plans.
- Employees who retire after being on long-term disability under VLDP must have at least 15 year of service credit to qualify for the health insurance credit as a retiree.

# **Employees Covered by Benefit Terms**

As of the June 30, 2020 and 2019 actuarial valuation dates the following employees were covered by the benefit terms of the RHP:

	2020	2019
Beneficiaries currently receiving benefit payments	160	170
Active employees	732	734
Total	892	904

There are no inactive employees entitled to but not yet receiving plan benefits.

As of the June 30, 2019 and 2018 actuarial valuation dates the following employees were covered by the benefit terms of the HIC:

	2019	2018
Inactive members or their beneficiaries currently receiving benefit		
payments	249	240
Active employees	809	790
Total	1,058	1,030

STATISTICAL

SECTION

(UNAUDITED)

# Contributions

RHP contribution requirements are actuarially determined. Funding is subject to approval by the Commission. Medicare-eligible members contribute \$45 per month for retiree-only coverage and from \$442 to \$460 per month for retiree and dependent coverage. Members not eligible for Medicare contribute \$120 per month for retiree-only coverage and from \$517 to \$535 per month for retiree and dependent coverage. HRSD funds the cost of coverage under the RHP by paying the difference between the contributions it requires retirees to make and the actuarially determined contribution (ADC). The current employer contribution rate is approximately 5 percent of annual covered payroll. HRSD contributed \$1,963,000 and \$2,730,000 to the RHP for the years ended June 30, 2021 and 2020, respectively.

The GLI contribution requirements for the GLI Program are governed by §51.1-506 and §51.1-508 of the Code of Virginia, as amended, but may be impacted as a result of funding provided to state agencies and school divisions by the Virginia General Assembly. The total rate for the GLI Program was 1.31% of covered employee compensation. This was allocated into an employee and an employer component using a 60/40 split. The employee component was 0.79% (1.31% X 60%) and the employer component was 0.52% (1.31% X 40%). Employers may elect to pay all or part of the employee contribution, however the employer must pay all of the employer contribution. Each employer's contractually required employer contribution rate for the years ended June 30, 2021 and 2020 was 0.52% of covered employee compensation. This rate was based on an actuarially determined rate from an actuarial valuation as of June 30, 2017. The actuarially determined rate, when combined with employee contributions, was expected to finance the costs of benefits payable during the year, with an additional amount to finance any unfunded accrued liability. Contributions from HRSD to the GLI Program were \$293,000 and \$276,000 for the years ended June 30, 2021 and June 30, 2020, respectively.

The HIC contribution requirement for active employees is governed by §51.1-1402(E) of the Code of Virginia, as amended, but may be impacted as a result of funding options provided to political subdivisions by the Virginia General Assembly. HRSD's contractually required employer contribution rate for the years ended June 30, 2021 and 2020 was 0.21% of covered employee compensation. This rate was based on an actuarially determined rate from an actuarial valuation as of June 30, 2017. The actuarially determined rate was expected to finance the costs of benefits earned by employees during the year, with an additional amount to finance any unfunded accrued liability. Contributions from HRSD to the Political Subdivision HIC Program were \$114,000 for year ended June 30, 2021 and \$111,000 for year ended June 30, 2020.

# RHP OPEB Expenses and Deferred Outflows of Resources Related to RHP OPEB

HRSD recognized RHP OPEB gain of \$1,160,000 and expense of \$1,158,000 for the years ended June 30, 2021 and 2020, respectively. HRSD reported deferred inflows of resources related to OPEB from the following sources:")

(in thousands)	Out	Deferred Outflows of Resources		eferred flows of sources
Year ended June 30, 2021:	Φ.	4.000	Φ.	5 500
Differences between expected and actual experience	\$	4,806	\$	5,502
Changes in assumptions		-		1,475
Net diff between projected and actual earnings on plan investments		-		8,984
Total	\$	4,806	\$	15,961
Year ended June 30, 2020:				
Differences between expected and actual experience	\$	2,568	\$	6,288
Changes in assumptions		-		1,711
Net diff between projected and actual earnings on plan investments				604
Total	\$	2,568	\$	8,603

HRSD's measurement date is its fiscal year end so there are no deferred outflows of resources resulting from contributions subsequent to the measurement date. Other amounts reported as deferred outflows and inflows of resources related to OPEB will be recognized in OPEB expense in future reporting periods as follows:

(in thousands)		
Years Ended June 30,	2021	2020
2021	\$ -	\$ (903)
2022	(2,734)	(903)
2023	(2,561)	(730)
2024	(2,522)	(690)
2025	(2,486)	(655)
2026	(330)	-
Thereafter	(522)	(2,154)
	\$ (11,155)	\$ (6,035)

GLI OPEB Liabilities, GLI OPEB Expense, and Deferred Outflows of Resources and Deferred Inflows of Resources Related to the Group Life Insurance Program OPEB

At June 30, 2021 and 2020, HRSD reported liabilities of \$4,307,000 and \$4,265,000, respectively, for its proportionate share of the Net GLI OPEB Liability. The Net GLI OPEB Liabilities were measured as of June 30, 2020 and June 30, 2019 and the total GLI OPEB liabilities used to calculate the Net GLI OPEB Liability were determined by actuarial valuations as of those dates. The covered employer's proportion of the Net GLI OPEB Liability was based on HRSD's actuarially determined employer contributions to the Group Life Insurance Program for the years ended June 30, 2020 and 2019 relative to the total of the actuarially determined employer contributions for all participating employers. At June 30, 2020 and 2019, HRSD's proportion was 0.25814% and 0.26208%, respectively. For the years ended June 30, 2021 and 2020, HRSD recognized GLI OPEB expenses of \$169,000 and \$109,000, respectively. Since there was a change in proportionate share between measurement dates, a portion of the GLI OPEB expense was related to deferred amounts from changes in proportion.

At June 30, 2021 and 2020, HRSD reported deferred outflows of resources and deferred inflows of resources related to the GLI OPEB from the following sources:

(in thousands)	Outflo	erred ows of ources	Inflo	erred ws of ources
Year ended June 30, 2021:				
Differences between expected and actual experience	\$	276	\$	39
Net diff bet projected and actual earnings on program investments		129		-
Change in assumptions		216		90
Changes in proportion		30		51
Employer contributions subsequent to the measurement date		293		-
Total	\$	944	\$	180
Year ended June 30, 2020:				
Differences between expected and actual experience	\$	284	\$	55
Net diff bet projected and actual earnings on program investments		-		88
Change in assumptions		269		129
Changes in proportion		41		1
Employer contributions subsequent to the measurement date		276		
Total	\$	870	\$	273

HRSD reported \$293,000 and \$276,000 as of June 30, 2021 and 2020, respectively, as deferred outflows of resources related to the GLI OPEB resulting from the HRSD's contributions subsequent to the measurement date which will be recognized as a reduction of the Net GLI OPEB Liability in the Fiscal Years ending June 30, 2022 and 2021, respectively. Other amounts reported as deferred outflows of resources and deferred inflows of resources related to the GLI OPEB will be recognized in the GLI OPEB expense in future reporting periods as follows:

REQUIRED

(in thousands)				
Years ended June 30,	20	21	20	020
2021	\$	_	\$	25
2022		70		26
2023		106		63
2024		137		94
2025		133		90
2026		25		-
Thereafter		_		23
	\$	471	\$	321

# HIC OPEB Expense, and Deferred Outflows of Resources and Deferred Inflows of Resources Related to HIC OPEB

For the years ended June 30, 2021 and 2020, HRSD recognized HIC Program OPEB expense of \$122,000 and \$106,000, respectively. HRSD reported deferred outflows of resources and deferred inflows of resources related to the Political Subdivision HIC Program from the following sources:

		erred	Defe	
		Outflows of Resources		vs of
(in thousands)	Res			urces
Year ended June 30, 2021:				
Differences between expected and actual experience	\$	47	\$	-
Net diff bet projected and actual earnings on program investments		31		-
Change in assumptions		35		9
Employer contributions subsequent to the measurement date		114		
Total	\$	227	\$	9
Year ended June 30, 2020:				
Differences between expected and actual experience	\$	42	\$	-
Net diff bet projected and actual earnings on program investments		-		11
Change in assumptions		43		12
Employer contributions subsequent to the measurement date		111		
Total	\$	196	\$	23

HRSD reported \$114,000 for FY 2021 and \$111,000 for FY 2020 as deferred outflows of resources related to the HIC OPEB resulting from HRSD's contributions subsequent to the measurement date which will be recognized as a reduction of the Net HIC OPEB Liability in the Fiscal Year ending June 30, 2022 and 2021, respectively. Other amounts reported as deferred outflows of resources and deferred inflows of resources related to the HIC OPEB will be recognized in the HIC OPEB expense in future reporting periods as follows:

(in thousands)				
Years ended June 30,	20	21	20	20
2021	\$	-	\$	6
2022		17		6
2023		24		13
2024		26		15
2025		25		14
2026		10		-
Thereafter		2		8
	\$	104	\$	62

<u>Combined OPEB Expense, and Deferred Outflows of Resources and Deferred Inflows of Resources Related to RHP, GLI and HIC OPEB</u>

For the years ended June 30, 2021 and 2020, HRSD reported deferred outflows of resources and deferred inflows of resources related to the RHP, GLI and HIC OPEB plans from the following sources:

(in thousands)	Deferred Outflows of Resources		Deferred Inflows of Resources	
Year ended June 30, 2021:				
Differences between expected and actual experience	\$	5,129	\$	5,541
Net diff bet projected and actual earnings on program investments		160		8,984
Changes in proportion		30		51
Change in assumptions		251		1,574
Employer contributions subsequent to the measurement date		407		
Total	\$	5,977	\$	16,150
Year ended June 30, 2020:				
Differences between expected and actual experience	\$	2,894	\$	6,343
Net diff bet projected and actual earnings on program investments				703
Change in assumptions		312		1,852
Changes in proportion		41		1
Employer contributions subsequent to the measurement date		387		-
Total	\$	3,634	\$	8,899

HRSD reported \$407,000 for FY 2021 and \$387,000 for FY 2020 as deferred outflows of resources related to the OPEB plans resulting from HRSD's contributions subsequent to the measurement date which will be recognized as a reduction of the net OPEB Liability in the Fiscal Year ending June 30, 2022 and 2021, respectively. Other amounts reported as deferred outflows of resources and deferred inflows of resources related to the OPEB plans will be recognized in HRSD's OPEB expense in future reporting periods as follows:

(in thousands)		
Years ended June 30,	2021	2020
2021	\$ -	\$ (872)
2022	(2,647)	(871)
2023	(2,431)	(654)
2024	(2,359)	(581)
2025	(2,328)	(551)
2026	(295)	-
Thereafter	(520)	(2,123)
	\$ (10,580)	\$ (5,652)

# **Actuarial Methods and Assumptions**

INTRODUCTORY

SECTION

The total RHP OPEB liabilities were based on actuarial valuations as of June 30, 2020 and 2019, using the Entry Age Normal actuarial cost method and the following assumptions, applied to all periods included in the measurement and rolled forward to the measurement dates of June 30, 2021 and 2020.

Year Ended June 30, 2021:

Inflation2.5 percentSalary increases, including inflation2.5 percent

Investment rate of return 6.0 percent, net of investment expenses, including inflation\*

Mortality rates for the RHP are as follows:

Healthy Retirees	Pub-2010 General Retirees Headcount-weighted Mortality Projected with Fully Generational MP2019 Mortality Improvement Scale.
Disabled Retirees	Pub-2010 General Disabled Retirees Headcount-Weighted Mortality Projected with Fully Generational MP2019 Mortality Improvement Scale.
Active Retirees	Pub-20210 General Employees Headcount-Weighted Mortality Projected with Fully Generational MP2019 Mortality Improvement Scale.

Year Ended June 30, 2020:

 Inflation
 2.5 percent

 Salary increases, including inflation
 2.5 percent

Investment rate of return 6.0 percent, net of investment expenses, including inflation\*

Mortality rates for the RHP are as follows:

Healthy Retirees	Pub-2010 General Retirees Headcount-weighted Mortality Projected with Fully Generational MP2019 Mortality Improvement Scale.
Disabled Retirees	Pub-2010 General Disabled Retirees Headcount-Weighted Mortality Projected with Fully Generational MP2019 Mortality Improvement Scale.
Active Retirees	Pub-20210 General Employees Headcount-Weighted Mortality Projected with Fully Generational MP2019 Mortality Improvement Scale.

The total GLI and HIC OPEB liabilities were based on actuarial valuations as of June 30, 2019, using the Entry Age Normal actuarial cost method and the following assumptions, applied to all periods included in the measurement and rolled forward to the measurement date of June 30, 2020:

Year Ended June 30, 2020:

Inflation 2.5 percent

Salary increases, including inflation \* 3.5 percent - 5.35 percent

Investment rate of return 6.75 percent, net of investment expenses, including inflation\*

Mortality tables and assumptions for GLI and HIC are as follows:

Pre-Retirement:	RP-2014 Employee Rates to age 80, Healthy Annuitant Rates to 81 and older projected with Scale BB to 2020; males 95% of rates; females 105% of rates.
Post-Retirement:	RP-2014 Employee Rates to age 49, Healthy Annuitant Rates at ages 50 and older projected with Scale BB to 2020; males set forward 3 years; females 1.0% increase compounded from ages 70 to 90.
Post-Disablement:	RP-2014 Disability Life Mortality Table projected with scale BB to 2020; males set forward 2 years, 110% of rates; females 125% of rates.

Year Ended June 30, 2019:

Inflation 2.5 percent

Salary increases, including inflation \* 3.5 percent - 5.35 percent

Investment rate of return 6.75 percent, net of investment expenses, including inflation\*

Mortality tables and assumptions for GLI and HIC are as follows:

Pre-Retirement:	RP-2014 Employee Rates to age 80, Healthy Annuitant Rates to 81 and older projected with Scale BB to 2020; males 95% of rates; females 105% of rates.
Post-Retirement:	RP-2014 Employee Rates to age 49, Healthy Annuitant Rates at ages 50 and older projected with Scale BB to 2020; males set forward 3 years; females 1.0% increase compounded from ages 70 to 90.
Post-Disablement:	RP-2014 Disability Life Mortality Table projected with scale BB to 2020; males set forward 2 years, 110% of rates; females 125% of rates.

<sup>\*</sup> Administrative expenses as a percent of the market value of assets for the last experience study were found to be approximately 0.06% of the market assets for all of the VRS plans. This would provide an assumed investment return rate for GASB purposes of slightly more than the assumed 6.75%. However, since the difference was minimal, and a more conservative 7.0% investment return assumption provided a projected plan net position that exceeded the projected benefit payments, the long-term expected rate of return on investments was assumed to be 6.75% to simplify preparation of the OPEB liabilities.

The actuarial assumptions used in the June 30, 2018 valuation was based on the results of an actuarial experience study for the period from July 1, 2012 through June 30, 2016, except the change in the discount rate, which was based on VRS Board action effective as of July 1, 2019. Changes to the actuarial assumptions as a result of the experience study and VRS Board action are as follows:

Retirement Rates	Lowered retirement rates at older ages and extended final retirement age from 70 to 75.
Withdrawal Rates	Adjusted terminations rates to better fit experience at each age and service year
Disability Rates	Lowered disability rates
Salary Scale	No change
Line of Duty Disability	Increased rate from 14% to 15%
Discount Rate	Decrease rate from 7.00% to 6.75%
Mortality rates are as follows:	
Pre-retirement, post-retirement healthy, and disabled	Updated to a more current mortality table - RP2014 projected to 2020

# **Long-Term Expected Rate of Return**

The long-term expected rate of return on RHP investments was determined using an economic building block approach that projects economic and corporate profit growth and takes into consideration the fundamental factors driving long-term real economic growth, our expectation for inflation, productivity, and labor force growth. The returns presented here are geometric return projections based on long-term capital market assumptions. The asset target allocations are governed by its formal investment policy. The best estimate of arithmetic real rates of return for each major asset class are summarized in the following table:

Year Ended June 30, 2021  Asset Class (Strategy)	Target Allocation	Arithmetic Long-Term Expected Rate of Return	Weighted Average Long-Term Expected Rate of Return
Domestic Equity	39.00%	7.50%	2.93%
International Developed Equity	15.00%	7.60%	1.14%
International Emerging Markets Equity	6.00%	7.90%	0.47%
Core Fixed	20.00%	3.80%	0.76%
Investment Grade Corporate Debt	10.00%	4.20%	0.42%
Emerging Markets Debt	5.00%	6.10%	0.31%
High Yield	5.00%	6.00%	0.30%
Total	100.00%		6.33%
		Inflation	2.50%
	* Expected arithr	netic nominal return	8.83%

<sup>\*</sup> The above allocation provides a one-year return of 8.83%. However, one-year returns do not take into account the volatility present in each of the asset classes so a rate of 6.0% is used.

Year Ended June 30, 2020  Asset Class (Strategy)	Target Allocation	Arithmetic Long-Term Expected Rate of Return	Weighted Average Long-Term Expected Rate of Return
Domestic Equity	39.00%	7.40%	2.89%
International Developed Equity	15.00%	7.30%	1.10%
International Emerging Markets Equity	6.00%	7.40%	0.44%
Core Fixed	20.00%	4.90%	0.98%
Investment Grade Corporate Debt	10.00%	5.80%	0.58%
Emerging Markets Debt	5.00%	6.50%	0.33%
High Yield	5.00%	6.40%	0.32%
Total	100.00%		6.64%
		Inflation	2.50%
	* Expected arithr	netic nominal return	9.14%

<sup>\*</sup> The above allocation provides a one-year return of 9.14%. However, one-year returns do not take into account the volatility present in each of the asset classes so a rate of 6.0% is used.

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

Asset Class (Strategy)	Target Allocation	Arithmetic Long-Term Expected Rate of Return	Weighted Average Long-Term Expected Rate of Return
Public Equity	34.00%	4.65%	1.58%
Fixed Income	15.00%	0.46%	0.07%
Credit Strategies	14.00%	5.38%	0.75%
Real Assets	14.00%	5.01%	0.70%
Private Equity	14.00%	8.34%	1.17%
MAPS - Multi-Asset Public Strategies	6.00%	3.04%	0.18%
PIP-Private Investment Partnership	3.00%	6.49%	0.19%
Total	100.00%		4.64%
		Inflation	2.50%
	* Expected arith	nmetic nominal return	7.14%

<sup>\*</sup>The above allocation provides a one-year return of 7.14%. However, one-year returns do not take into account the volatility present in each of the asset classes. In setting the long-term expected return for the system, stochastic projections are employed to model future returns under various economic conditions. The results provide a range of returns over various time periods that ultimately provide a median return of 7.11%, including expected inflation of 2.50%. On October 10, 2019, the VRS Board elected a long-term rate of 6.75% which is roughly at the 40th percentile of expected long-term results of the VRS fund asset allocation. More recent capital market assumptions compiled for the FY2020 actuarial valuations, provide a median return of 6.81%.

## **Discount Rates**

The discount rate used to measure the total OPEB liability for the RHP, as of June 30, 2020, was 6.0%. The projection of cash flows used to determine the discount rate assumes that HRSD contributions will be made in accordance with the funding plan established by an independent actuarial review.

The discount rate used to measure the total GLI and HIC OPEB liability was 6.75%. The projection of cash flows used to determine the discount rate assumed that member contributions will be made per the VRS guidance and the employer contributions will be made in accordance with the VRS funding policy at rates equal to the difference between actuarially determined contribution rates adopted by the VRS Board of Trustees and the member rate. Through the fiscal year ending June 30, 2020, the rate contributed by the entity for the GLI and HIC OPEB will be subject to the portion of the VRS Board certified rates that are funded by the Virginia General Assembly which was 100% of the actuarially determined contribution rate. From July 1, 2020 on, employers are assumed to continue to contribute 100% of the actuarially determined contribution rates. Based on those assumptions, the GLI and HIC OPEB's fiduciary net position was projected to be available to make all projected future benefit payments of eligible employees. Therefore, the long-term expected rate of return was applied to all periods of projected benefit payments to determine the total GLI and HIC OPEB liability.

# **Change in Net OPEB Liability (Asset)**

HRSD's net RHP OPEB liability was measured as of June 30, 2021 using a June 30, 2020 valuation, which has been rolled forward to the June 30, 2021 measurement date.

RHP (in thousands)	Total RHP Plan Fiduc OPEB Liability Net Positi (a) (b)		,	OPE	Net RHP 3 Liability (Asset) (a) - (b)	
	•		_			
RHP OPEB Liability Balances at June 30, 2019	\$	65,693	\$	52,025	\$	13,668
Changes for the year - Increase (Decrease):						
Service cost		1,345		-		1,345
Interest		3,883		-		3,883
Changes of assumptions		(518)		-		(518)
Difference between expected and actual experience		(7,074)		-		(7,074)
Contributions - employer		·		2,730		(2,730)
Net investment income		-		3,343		(3,343)
Benefit payments, including refunds of employee contributions		(1,186)		(1,186)		` <u>-</u>
Net changes		(3,550)		4,887		(8,437)
RHP OPEB Liability Balances at June 30, 2020	\$	62,143	\$	56,912	\$	5,231
Changes for the year - Increase (Decrease):	-	•		•		<u> </u>
Service cost		1,333		_		1,333
Interest		3,672		_		3,672
Difference between expected and actual experience		2,930		_		2,930
Contributions - employer		2,000		1,963		(1,963)
Net investment income		_		14,216		, ,
		(4.405)				(14,216)
Benefit payments, including refunds of employee contributions		(1,425)		(1,425)		(0.011)
Net changes		6,510		14,754		(8,244)
RHP OPEB Liability (Asset) Balances at June 30, 2021	\$	68,653	\$	71,666	\$	(3,013)

The net GLI OPEB liability represents the program's total OPEB liability determined in accordance with GAAP, less the associated fiduciary net position. As of the measurement dates of June 30, 2021 and 2020, net OPEB liability amounts for the GLI Program are as follows:

# GLI

(in thousands)	2021	2020
Total GLI OPEB Liability	\$ 3,523,937	\$ 3,390,238
Plan Fiduciary Net Position	1,855,102	1,762,972
Net GLI OPEB Liability	\$ 1,668,835	\$ 1,627,266
Plan Fiduciary Net Position as a Percentage of the Total GLI OPEB Liability:	52.64%	52.00%

The total GLI OPEB liability is calculated by the VRS's actuary, and each plan's fiduciary net position is reported in the VRS's financial statements. The net GLI OPEB liability is disclosed in accordance with the requirements of GAAP in the VRS's notes to the financial statements and required supplementary information.



HRSD's net HIC OPEB liability was measured as of June 30, 2020. The total HIC OPEB liability was determined by an actuarial valuation performed as of June 30, 2019, using updated actuarial assumptions, applied to all periods included in the measurement and rolled forward to the measurement date of June 30, 2020.

HIC		otal HIC		iduciary		let HIC
(in thousands)	OPEB Liability Net Position (a) (b)			OPEB Liability (a) - (b)		
(		()		- /		., (-,
HIC OPEB Liability Balances at June 30, 2018	\$	1,981	\$	886	\$	1,095
Changes for the year - Increase (Decrease):						
Service cost		26		-		26
Interest		134		-		134
Changes of assumptions		50		-		50
Difference between expected and actual experience		26		-		26
Contributions - employer		-		108		(108)
Net investment income		-		56		(56)
Benefit payments, including refunds of employee contributions		(124)		(124)		-
Administrative expense		-		(1)		1
Net changes		112		39		73
HIC OPEB Liability Balances at June 30, 2019	\$	2,093	\$	925	\$	1,168
Changes for the year - Increase (Decrease):						
Service cost		28		-		28
Interest		137		-		137
Difference between expected and actual experience		16		-		16
Contributions - employer		-		111		(111)
Net investment income		-		18		(18)
Benefit payments, including refunds of employee contributions		(129)		(129)		-
Administrative expense		-		(2)		2
Net changes		52		(2)		54
HIC OPEB Liability Balances at June 30, 2020	\$	2,145	\$	923	\$	1,222

# Sensitivity of the Net OPEB Liabilities to Changes in the Discount Rate and Healthcare Cost Trend Rate

The following table presents the net RHP OPEB liability (asset) if it is calculated using a discount rate that is one percentage point lower (5.00%) or one percentage point higher (7.00%) than the current discount rate:

RHP Discount Rate		1% Decrease		nt Discount	1% Increase	
		(5.00%)		e (6.0%)	(7.00%)	
Net RHP OPEB Liability/(Asset) (in thousands) Year ended June 30, 2021 Year ended June 30, 2020	\$	8,875 16,184	\$	(3,013) 5,231	\$	(12,481) (3,471)

The following table presents the net RHP OPEB liability (asset) if it is calculated using a healthcare cost trend rate that is one percentage point lower (3.00%) or one percentage point higher (5.00%) than the current healthcare cost trend rate:

	Healthcare Cost						
	1% D	ecrease	Trer	nd Rate	1% Incr	ease	
RHP Ultimate Trend	(3.00%)		(4.00%)		(5.00%)		
Net RHP OPEB Liability/(Asset) (in thousands)							
Year ended June 30, 2021	\$	(13,883)	\$	(3,013) \$	;	11,009	
Year ended June 30, 2020		(4,764)		5,231		18,151	

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The following presents the net GLI OPEB liability using the discount rate of 6.75%, as well as what the net GLI OPEB liability would be if it were calculated using a discount rate that is one percentage point lower (5.75%) or one percentage point higher (7.75%) than the current rate:

GLI Discount Rate	1% Decrease (5.75%)		nt Discount e (6.75%)	1% Increase (7.75%)
GLI Net OPEB Liability (in thousands)				
Year ended June 30, 2021	\$	5,663	\$ 4,307	\$ 3,207
Year ended June 30, 2020		5,603	4,265	3,180

The following presents the net HIC OPEB liability using the discount rate of 6.75%, as well as what the net HIC OPEB liability would be if it were calculated using a discount rate that is one percentage point lower (5.75%) or one percentage point higher (7.75%) than the current rate:

HIC Discount Rate		1% Decrease (5.75%)	Current Discount Rate (6.75%)	1% Increase (7.75%)	
HIC Net OPEB Liability (in thousands)					
Year ended June 30, 2021	\$	1,447	\$ 1,222	\$ 1,029	
Year ended June 30, 2020		1,391	1,168	979	

#### GLI Fiduciary Net Position and HIC Plan Data

GLI Fiduciary Net Position and HIC Plan Data is available in the separately issued VRS 2020 and 2019 Comprehensive Annual Financial Reports (Annual Report). A copy of the 2020 VRS Annual Report may be downloaded from the VRS website <a href="http://www.varetire.org/Pdf/Publications/2020-annual-report.pdf">http://www.varetire.org/Pdf/Publications/2020-annual-report.pdf</a>. A copy of the 2019 VRS Annual Report may be downloaded from the VRS website <a href="http://www.varetire.org/Pdf/Publications/2019-annual-report.pdf">http://www.varetire.org/Pdf/Publications/2019-annual-report.pdf</a>. Both files can be received by requesting a copy in writing to the System's Chief Financial Officer at P.O. Box 2500, Richmond, VA, 23218-2500.

#### **NOTE 8 – DEFINED BENEFIT PENSION PLAN**

# Plan Description

HRSD employees participate in an agent multiple-employer defined benefit pension plan administered by VRS. All full time, salaried permanent employees of HRSD are automatically covered by the Plan upon employment. Members earn one month of service credit for each month they are employed and for which they and their employer pay contributions to VRS. Members are eligible to purchase prior service, based on specific criteria as defined in the Code of Virginia, as amended. Eligible prior service that may be purchased includes prior public service, active military service, certain periods of leave and previously refunded service.

VRS administers three different benefit structures for covered employees – Plan 1, Plan 2 and the Hybrid Retirement Plan (HRP). The specific information for each plan is set out below:

- Plan 1 is a defined benefit plan. The retirement benefit is based on a member's age, creditable service and average final compensation at retirement using a formula. Employees are eligible for Plan 1 if their membership date is before July 1, 2010 and they were vested as of January 1, 2013. Non-hazardous duty members are eligible for an unreduced retirement benefit beginning at age 65 with at least five years of service credit. They may retire with a reduced benefit as early as age 55 with at least five years of service credit or age 50 with at least 10 years of service credit.
- Plan 2 is a defined benefit plan. The retirement benefit is based on a member's age, creditable service and average final compensation at retirement using a formula. Employees are eligible for Plan 2 if their membership date is on or after July 1, 2010, and they were not vested as of January 1, 2013. Non-hazardous duty members are eligible for an unreduced benefit beginning at their normal Social Security retirement age with at least five years of service credit or when the sum of their age and service equals 90. They may retire with a reduced benefit as early as age 60 with at least five years of service credit.

■ The Hybrid Retirement Plan (HRP) combines the features of a defined benefit plan and a defined contribution plan. Most members hired on or after January 1, 2014 are in this plan, as well as Plan 1 and Plan 2 members who were eligible and opted into the plan during a special election window from January 1 through April 30, 2014. The employee's retirement benefit is funded through mandatory and voluntary contributions made by the employee and HRSD to both the defined benefit and the defined contribution components of the plan. Non-hazardous duty members are eligible for an unreduced benefit beginning at their normal Social Security retirement age with at least five years of service credit or when the sum of their age and service equals 90. They may retire with a reduced benefit as early as age 60 with at least five years of service credit.

Members in Plan 1 and Plan 2 contribute 5% of their compensation each month to their member contribution account through a pre-tax salary reduction. HRSD makes a separate actuarially determined contribution to VRS for all covered employees. The retirement benefit for members in the HRP is funded through mandatory and voluntary contributions made by the member and HRSD to both the defined benefit and the defined contribution components of the plan. Mandatory contributions are based on a percentage of the employee's creditable compensation and are required from both the member and the employer. Additionally, members may choose to make voluntary contributions to the defined contribution component of the plan, and the employer is required to match those voluntary contributions according to specified percentages.

Members in Plan 1 and Plan 2 earn creditable service for each month they are employed in a covered position, and vest when they have at least five years (60 months) of creditable service. Members in the HRP earn one month of service credit for each month they are employed in a covered position for the defined benefit component, and service credits are used to determine vesting for the employer contribution portion of the plan. HRP members are always 100% vested in the defined contributions they make, and upon retirement or leaving covered employment are eligible to withdraw employer contributions of 50%, 75%, or 100% after two, three, or four years of service, respectively.

The VRS Basic Benefit for Plan 1 and Plan 2 members, and the defined benefit component for HRP members, is a lifetime monthly benefit based on a retirement multiplier as a percentage of the member's average final compensation multiplied by the member's total service credit. Under Plan 1, average final compensation is the average of the member's 36 consecutive months of highest compensation. Under Plan 2 and the HRP, average final compensation is the average of the member's 60 consecutive months of highest compensation. The retirement multiplier for non-hazardous duty members in Plan 1 is 1.7%; in Plan 2 the multiplier is 1.7% for service earned, purchased or granted prior to January 1, 2013 and 1.65% after that date. The multiplier is 1% for members in the HRP. At retirement, members can elect the Basic Benefit, the Survivor Option, a Partial Lump-Sum Option Payment (PLOP) or the Advance Pension Option. A retirement reduction factor is applied to the Basic Benefit amount for members electing the Survivor Option, PLOP or Advance Pension Option or those retiring with a reduced benefit.

Retirees are eligible for an annual cost-of-living adjustment (COLA) effective July 1 of the second calendar year of retirement. Under Plan 1, the COLA cannot exceed 5%; under Plan 2 and for the HRP defined benefit component, the COLA cannot exceed 3%. During years of no inflation or deflation there is no COLA adjustment. The VRS also provides death and disability benefits.

Information about the VRS Political Subdivision Retirement Plan is also available in the separately issued VRS 2020 Comprehensive Annual Financial Report (Annual Report). A copy of the 2020 VRS Annual Report may be downloaded from the VRS website at <a href="mailto:varetire.org/pdf/publications/2020-annual-report.pdf">varetire.org/pdf/publications/2020-annual-report.pdf</a>, or by writing to the System's Chief Financial Officer at P.O. Box 2500, Richmond, VA 23218-2500.

# **Employees Covered by Benefit Terms**

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As of the June 30, 2019 and 2018 actuarial valuation dates, the following employees were covered by the benefit terms of the pension plan:

	2019	2018
Inactive members or their beneficiaries currently receiving benefits	398	385
Inactive Members		
Vested	95	97
Non-Vested	154	150
Active Elsewhere in VRS	85	78
Total Inactive Members	334	325
Active Members	809	790
Total	1,541	1,500

#### **Contributions**

The contribution requirement for active employees is governed by Section 51.1-145 of the Code of Virginia, as amended, but may be impacted as a result of funding options provided to political subdivisions by the Virginia General Assembly. Employees are required to contribute 5% of their compensation toward their retirement. Prior to July 1, 2012, all or part of the 5% member contribution may have been assumed by the employer. Beginning July 1, 2012, new employees were required to pay the 5% member contribution. In addition, for existing employees, employers were required to begin making the employee pay the 5% member contribution. This could be phased in over a period of up to 5 years and the employer is required to provide a salary increase equal to the amount of the increase in the employee-paid member contribution. HRSD's contractually required contribution rate for the year ended June 30, 2021 was 7.06% of covered compensation. This rate is based on actuarially determined rates from actuarial valuations as of June 30, 2019.

These rates, when combined with employee contributions, are expected to finance the costs of benefits earned by employees during the year, with an additional amount to finance any unfunded accrued liability. Employer contributions to the pension plan were \$3,453,000 and \$2,897,000 for the years ended June 30, 2021 and 2020, respectively.

# Net Pension Liability

The net pension liability (NPL) is calculated separately for each employer and represents that particular employer's total pension liability determined in accordance with GAAP, less that employer's fiduciary net position. For HRSD, the net pension liability was measured as of June 30, 2020. The total pension liability used to calculate the net pension liability was determined by an actuarial valuation performed as of June 30, 2019, rolled forward to the measurement date of June 30, 2020.

## **Actuarial Assumptions**

The total pension liability as of June 30, 2020 for employees in HRSD's retirement plan was based on actuarial valuations as of June 30, 2019, using the Entry Age Normal actuarial cost method and the following assumptions, applied to all periods included in the measurement and rolled forward to the measurement date of June 30, 2019. The actuarial valuations as of June 30, 2020 use the following assumptions:

Inflation 2.5%

Salary increases, including inflation 3.5% to 5.35%

Investment rate of return 6.75%, net of pension plan investment expenses, including inflation\*

Cost of living adjustments 2.25% to 2.50%

The actuarial valuation uses the following mortality assumptions:

- Mortality rates: 15% of deaths are assumed to be service related.
- Pre Retirement, RP-2014 Employee Rates to age 80, Healthy Annuitant Rates at ages 81 and older projected with Scale BB to 2020; males 95% of rates; females 105% of rates.
- Post Retirement, RP-2014 Employee Rates to age 49, Healthy Annuitant Rates at ages 50 and older projected with Scale BB to 2020; males set forward 3 years; females 1.0% increase compounded from ages 70 to 90.
- Post Disablement, RP-2014 Disability Mortality Rates projected with Scale BB to 2020; males set forward 2 years, 110% of rates; females 125% of rates.

The actuarial assumptions used in the June 30, 2019 valuations were based on the results of an actuarial experience study for the period July 1, 2012 through June 30, 2016, except the change in the discount rate, which was based on VRS Board action effective as of July 1,2019. Changes to the actuarial assumptions as a result of the experience study and VRS Board action are as follows:

- Mortality rates Updated to a more current mortality table RP-2014 projected to 2020.
- Retirement rates Lowered rates at older ages and changed final retirement from 70 to 75.
- Withdrawal rates Adjusted rates to better fit experience at each year age and service through 9 years of service.
- Disability rates Lowered rates.
- Salary scale No change.
- Line of duty disability Increase rate from 14% to 15%.
- Discount Rate Decrease rate from 7% to 6.75 %

<sup>\*</sup> Administrative expenses as a percent of the market value of assets for the last experience study were found to be approximately 0.06% of the market assets for all of the VRS plans. This would provide an assumed return rate for GAAP purposes of slightly more than the assumed 6.75%. However, since the difference was minimal, and a more conservative 6.75% investment return assumption provided a projected plan net position that exceeded the projected benefit payments, the long-term expected rate of return on investments was assumed to be 6.75% to simplify preparation of pension liabilities.

# Long-Term Expected Rate of Return

The long-term expected rate of return on pension system investments was determined using a log-normal distribution analysis in which best-estimate ranges of expected real rates of return (expected returns, net of pension system investment expense and inflation) are developed for each major asset class. These ranges are combined to produce the long-term expected rate of return by weighting the expected future real rates of return by the target asset allocation percentage and by adding expected inflation.

The asset target allocation and best estimate of arithmetic real rates of return for each major asset class are summarized in the following table:

Asset Class (Strategy)	Long-Term Target Asset Allocation	Arithmetic Long-Term Expected Rate of Return	Weighted Average Long-Term Expected Rate of Return *
Public equity	34.00%	4.65%	1.58%
Fixed income	15.00%	0.46%	0.07%
Credit strategies	14.00%	5.38%	0.75%
Real assets	14.00%	5.01%	0.70%
Private equity	14.00%	8.34%	1.17%
MAPS - Stategies	6.00%	3.04%	0.18%
PIP	3.00%	6.49%	0.19%
Total	100.00%		4.64%
		Inflation	2.50%
	* Expected arit	hmetic nominal return	7.14%

<sup>\*</sup> The above allocation provides a one-year return of 7.14%. However, one-year returns do not take into account the volatility present in each of the asset classes. In setting the long-term expected return for the system, stochastic projections are employed to model future returns under various economic conditions. The results provide a range of returns over various time periods that ultimately provide a median return of 7.11%, including expected inflation of 2.50%. On October 10, 2019 the VRS Board elected a long-term rate of 6.75% which is roughly at the 40th percentile of expected long-term results of the VRS fund asset allocation. More recent capital market assumptions compiled for the FY2020 actuarial valuations, provide a median return of 6.81%.

# **Discount Rate**

The discount rate used to measure the total pension liability was 6.75%. The projection of cash flows used to determine the discount rate assumed that System member contributions will be made per the VRS Statutes and the employer contributions will be made in accordance with the VRS funding policy at rates equal to the difference between actuarially determined contribution rates adopted by the VRS Board of Trustees and the member rate. Consistent with the phased-in funding provided by the General Assembly for state and teacher employer contributions; political subdivisions were also provided with an opportunity to use an alternate employer contribution rate. For the year ended June 30, 2020, the alternate rate was the employer contribution rate used in FY 2012 or 100% of the actuarially determined employer contribution rate from the June 30, 2017, actuarial valuations, whichever was greater. From July 1, 2020, on, participating employers are assumed to continue to contribute 100% of the actuarially determined contribution rates. Based on those assumptions, the pension plan's fiduciary net position was projected to be available to make all projected future benefit payments of current active and inactive employees. Therefore, the long-term expected rate of return was applied to all periods of projected benefit payments to determine the total pension liability.



# Changes in Net Pension Liability

(in thousands)	Total Pension Liability (a)		,		et Position (	Net Pension Liability (a) - (b)	
,							
Pension Liability Balances at June 30, 2018	\$	227,659	\$	207,355	\$	20,304	
Changes for the year - Increase (Decrease):							
Service cost		3,946		-		3,946	
Interest		15,598		-		15,598	
Changes of assumptions		7,378		-		7,378	
Difference between expected and actual experience		760		-		760	
Contributions - employer		-		2,866		(2,866)	
Contributions - employee		-		2,468		(2,468)	
Net investment income		-		13,739		(13,739)	
Benefit payments, including refunds of employee contributions		(9,655)		(9,655)		-	
Administrative expense		-		(137)		137	
Other changes		-		(8)		8	
Net changes		18,027		9,273		8,754	
Pension Liability Balances at June 30, 2019	\$	245,686	\$	216,628	\$	29,058	
Changes for the year - Increase (Decrease):							
Service cost		4,229		-		4,229	
Interest		16,223		-		16,223	
Difference between expected and actual experience		(991)		-		(991)	
Contributions - employer		-		2,897		(2,897)	
Contributions - employee		-		2,538		(2,538)	
Net investment income		-		4,115		(4,115)	
Benefit payments, including refunds of employee contributions		(10,696)		(10,696)		-	
Administrative expense		-		(142)		142	
Other changes				(5)		5	
Net changes		8,765		(1,293)		10,058	
Pension Liability Balances at June 30, 2020	\$	254,451	\$	215,335	\$	39,116	

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

Pension Discount Rate	1% Decrease		Decrease Current Discount		count 1% Incr	
Net Pension Liability (in thousands)		(5.75%)		(6.75%)		(7.75%)
Year ended June 30, 2020	\$	72,769	\$	39,116	\$	11,182
Year ended June 30, 2019		62,624		29,058		2,307

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# Pension Expenses and Deferred Outflows of Resources and Deferred Outflows of Resources Related to Pensions

HRSD recognized pension expense of \$6,091,000 and \$3,454,000 for the years ended June 30, 2021 and 2020, respectively. At June 30, 2021 and 2020, HRSD reported deferred outflows of resources and deferred inflows of resources related to pensions from the following sources:

(in thousands)	Deferred Outflows of Resources		Outflows of		Outflows of Inflows	
Year ended June 30, 2021:						
Differences between expected and actual experience	\$	525	\$	1,226		
Changes of assumptions		4,149		526		
Net diff bet projected and actual earnings on program investments		6,456		-		
Employer contributions subsequent to the measurement date		3,453				
Total	\$	14,583	\$	1,752		
Year ended June 30, 2020:						
Differences between expected and actual experience	\$	1,268	\$	1,281		
Changes of assumptions		5,764		1,388		
Net diff bet projected and actual earnings on program investments		-		1,848		
Employer contributions subsequent to the measurement date		2,897				
Total	\$	9,929	\$	4,517		

HRSD reported \$3,453,000 and \$2,897,000 as of June 30, 2021 and 2020, respectively, as deferred outflows of resources resulting from HRSD's contributions subsequent to the measurement date, which will be recognized as reductions of the Net Pension Liability in the years ended June 30, 2022 and 2021, respectively. Other amounts reported as deferred outflows and inflows of resources related to pensions will be recognized in pension expense in future reporting periods as follows:

(in thousands)			
Years ended June 30,	20	2020	
2021	\$	-	\$ 625
2022		871	(974)
2023		3,570	1,725
2024		2,984	1,139
2025		1,953	 
	\$	9,378	\$ 2,515

# **NOTE 9 - NOTES PAYABLE AND BONDS**

As of October 30, 2015, the District entered into a Credit Agreement with Bank of America, N.A. (the "Bank") to provide a revolving line of credit to provide interim financing or refinancing for costs of projects. Since that time, the Credit Agreement has been extended and amended, most recently as of April 29, 2021. As of April 29, 2021, the District has a revolving line of credit of \$50,000,000 with Bank of America, N.A. (the "Bank"), which matures June 30, 2022. In addition, the District may request the Bank to increase the maximum authorization on the line of credit to up to \$200,000,000, subject to the Bank's approval, in its sole discretion. The District's obligation to make payments under the Credit Agreement is a Junior Obligation within the meaning of the District's Trust Agreement, dated as of October 1, 2011, as amended and supplemented, between the District and The Bank of New York Mellon Trust Company, N.A., as trustee, and is expressly subordinate and junior to the Lien on Net Revenues Available for Debt Service (as defined in the Trust Agreement).

Interest on advances is payable monthly at a fluctuating rate per annum. Tax-exempt projects are payable at an interest rate equal to the Securities Industry and Financial Markets Association (SIFMA) Index plus 0.39% per annum. Taxable projects are payable at an interest rate equal to the London Interbank Offered Rate (LIBOR) plus 0.45% per annum.

At June 30, 2021 and 2020, HRSD owed \$15,298,874 and \$0 against the line of credit, respectively. At June 30, 2021 and 2020, HRSD had \$34,701,26 and \$50,000,000, respectively, available under the line of credit agreement. The agreement provides for certain actions to be taken in events of default including acceleration of payment of the line of credit balance, termination of the lender's commitment to make further advances, and increasing the interest rate in effect to a higher default rate until paid in full. The line of credit is recorded as Notes Payable in the Current Liabilities section of the Statements of Net Position.

HRSD issues revenue bonds for various capital improvements including but not limited to wastewater treatment plants and interceptor system improvements. In addition to HRSD's publicly issued revenue bonds, HRSD is indebted for bond issues payable to the Virginia Resources Authority (VRA) as administrator of the Virginia Water Facilities Fund. HRSD is required to adhere to and is in compliance with the rebate and reporting requirements of the federal regulations pertaining to arbitrage.

In fiscal year 2020, HRSD issued \$205,675,000 in subordinate wastewater revenue bonds, Series 2019A, along with \$66,355,000 in cash to partially refund a total of \$219,721,000 debt for Series 2014A, Series 2016A, Series 2017A and Series 2018A. The transaction resulted in a loss on refunding of \$11,689,000 which will be amortized over 19 years, which is the life of the new debt.

HRSD closed on a 22 year, \$100 million loan, VRA - Group Loan, at 1.15 percent interest from Virginia Clean Water Revolving Loan Fund on June 11, 2020. This is the first programmatic loan in the history of the program, which funds a number of approved projects that provide substantial water quality benefits as opposed to an individual loan for each project.

HRSD has \$50 million outstanding in subordinate variable rate demand bonds, Series 2016B, to partially finance its capital improvement plan. The bonds bear interest in either a Weekly Period or a Long-term Period, as defined. The bonds were initially issued in a Weekly Interest Period and bear interest at a varying interest rate until, at HRSD's option, they are converted to the Long-term Period. Liquidity to pay the purchase price of the bonds that are tendered and not remarketed is provided by HRSD. Maturities of the principal and interest for these bonds are shown in the following table as if held to maturity. The bonds are subject to optional redemption by HRSD prior to their maturity. Through June 30, 2021, the bonds have been successfully remarketed by the Remarketing Agent. The interest rate for the bonds at June 30, 2021 and 2020 was 0.08% and 1.27%, respectively. The 2021 rate was used to calculate interest maturity amounts shown below.

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All bonds are secured by the revenues of HRSD and are payable over the duration of that issue. A summary of activity for the years ended June 30:

	Balance at				Balance at			Balance at	Due within
(in thousands)	6/30/2019	Additions	Deductions	Transfer	6/30/2020	Additions	Deductions	6/30/2021	One year
Series-2019A	\$ -	\$ 205,675	\$ -	\$ -	\$ 205,675	\$ -	\$ (2,985)	\$ 202,690	\$ 3,225
Series-2018A	62,715	-	(42,230)	-	20,485	-	(1,035)	19,450	1,090
Series-2017A	83,485	-	(11,430)	-	72,055	-	-	72,055	-
Series-2016A	230,970	-	(134,175)	-	96,795	-	(4,160)	92,635	5,875
Series-2016B VR	50,000	-	-	-	50,000	-	-	50,000	50,000
Series-2014A	105,845	-	(41,305)	-	64,540	-	(6,080)	58,460	8,070
Series-2012A	5,770	-	(2,815)	-	2,955	-	(2,955)	-	-
Series-2012	600	-	(310)	-	290	-	(290)	-	-
Series-2011FR	1,525	-	(1,525)	-	-	-	-	-	-
Series-2009B	120,140	-	(3,915)	-	116,225	-	(4,040)	112,185	4,170
							-		-
Virginia Resource	s Authority						-		-
Senior bonds	80,060	-	(2,405)	(47,163)	30,492	-	(2,467)	28,025	2,531
Subordinate									
bonds	84,398	29,238	(8,354)	47,163	152,445	35,452	(8,194)	179,703	10,197
	825,508	234,913	(248,464)	-	811,957	35,452	(32,206)	815,203	85,158
Unamortized									
bond premiums	66,121		(42,599)		23,522		(3,719)	19,803	3,261
Total	\$ 891,629	\$ 234,913	\$ (291,063)	\$ -	\$ 835,479	\$ 35,452	\$ (35,925)	\$ 835,006	\$ 88,419

# Senior bonds outstanding at June 30, 2021:

		Issue	Prin	Principal Outstanding		ing	ng		terest to	Interest	Duration	
(in thousands)	A	Amount	Total		Current	Lo	ng-Term	Ν	/laturity	Rates	of Issue	Final Maturity
Series-2014A	\$	111,345	\$ 58,460	\$	8,070	\$	50,390	\$	7,869	5.00%	15 years	July 1, 2025
Series-2009B		134,725	112,185		4,170		108,015		69,577	5.01% - 5.87%	30 years	November 1, 2039
VRA - Metering		9,989	5,824		516		5,308		844	2.65%	20 years	March 1, 2031
VRA - WTP		5,727	3,325		303		3,022		369	2.05%	20 years	March 1, 2031
VRA - NTP		19,395	11,280		999		10,281		1,634	2.65%	20 years	March 1, 2031
VRA - JRTP		13,431	7,596		713		6,883		1,046	2.65%	20 years	September 1, 2030
Total			\$ 198,670	\$	14,771	\$	183,899	\$	81,339			

Maturities of senior bond principal and interest as of June 30, 2021:

(in thousands)			
June 30,	F	Principal	Interest
2022	\$	14,771	\$ 9,778
2023		18,727	9,005
2024		19,539	8,110
2025		20,408	7,156
2026		20,649	6,159
2027 - 2031		41,500	23,555
2032 - 2036		32,375	13,892
2037 - 2041		30,701	3,684
	\$	198,670	\$ 81,339

# Subordinate revenue bonds outstanding at June 30, 2021:

					Interest			
(in thousands)	Issue	Prin	cipal Outstar	nding	to	Interest	Duration	Final
	Amount	Total	Current	Long-term	Maturity	Rates	of Issue	Maturity
Series-2019A	\$ 205,675	\$ 202,690	\$ 3,225	\$ 199,465	\$ 57,264	1.70% - 2.78%	20 Years	February 1, 2039
Series-2018A	63,185	19,450	1,090	18,360	6,996	5.00%	15 years	October 1, 2033
Series-2017A	83,485	72,055	-	72,055	42,766	3.50% - 5.00%	26 years	October 1, 2043
Series-2016A	246,845	92,635	5,875	86,760	31,888	3.00% - 5.00%	20 years	August 1, 2036
VRA - BH Odor	2,380	81	81	-	1	3.50%	20 years	September 1, 2021
VRA - York River Reuse	2,476	228	152	76	4	1.70%	20 years	September 1, 2022
VRA - AB Aeration	1,759	172	114	58	3	1.70%	20 years	October 1, 2022
VRA - Ches-Eliz Off Gas	1,070	140	69	71	7	3.75%	20 years	March 1, 2023
VRA - AB Generator	1,235	374	72	302	21	2.00%	20 years	April 1, 2026
VRA - Atlantic Expan	7,340	2,650	419	2,231	184	2.10%	20 years	February 1, 2027
VRA - Ches-Eliz Expan	40,330	14,487	2,290	12,197	1,008	2.10%	20 years	June 1, 2027
VRA - Williamsburg PS	1,605	622	90	532	47	2.10%	20 years	July 1, 2027
VRA - York River Expan	29,683	17,273	1,525	15,748	2,572	2.72%	20 years	March 1, 2031
VRA - Rodman	1,096	996	36	960	268	2.25%	25 years	June 1, 2043
VRA - Atlantic	6,318	4,240	307	3,933	696	2.51%	20 years	February 1, 2033
VRA - Ferguson	866	795	29	766	247	2.70%	25 years	March 1, 2042
VRA - Lucas	2,949	2,772	88	2,684	955	2.65%	27 years	October 1, 2044
VRA - BHTP Switchgear	7,619	7,619	371	7,248	1,340	1.85%	20 years	December 1, 2040
VRA - Orcutt Ave	-	7,701	204	7,497	3,885	2.85%	30 years	February 1, 2049
VRA - TP Dewatering	-	1,997	160	1,837	149	1.20%	20 years	October 1, 2040
VRA - Deep Creek IFM	4,989	4,989	229	4,760	621	1.20%	20 years	December 1, 2040
VRA - Huxley	-	3,220	179	3,041	471	1.20%	20 years	August 1, 2040
VRA - Group Loan	-	15,803	-	15,803	633	1.15%	22 years	March 1, 2042
VRA - ABTP	50,000	32,215	2,511	29,704	4,110	2.05%	20 years	September 1, 2032
VRA - ATP	-	56,836	883	55,953	18,178	2.25%	30 years	March 1, 2046
VRA - BHTP	7,584	4,493	388	4,105	524	2.05%	20 years	September 1, 2031
Total Fixed Rate Bonds	5	566,533	20,387	546,146	174,838			
						Variable		
Series-2016B VR	50,000	50,000	50,000	-	1,062	(0.08% at June 30,2021)	30 years	August 1, 2046
	-,		•	<b>.</b>	,	, , ,	,	<b>9</b> , • •
Total		\$ 616,533	\$ 70,387	\$ 546,146	\$ 175,900			

Interest

The VRA bonds that do not show an issue amount have not closed as of June 30, 2021, therefore, the principal amounts reflected represent draws through that date. The total eligible loan amount on these Subordinate VRA bonds is \$173,348,000, of which \$87,672,385 is available at June 30, 2021.

# Maturities of subordinate bond principal and interest as of June 30, 2021:

(in thousands)		
June 30,	Principal	Interest
2022	\$ 70,387	\$ 16,111
2023	20,886	15,936
2024	23,528	15,195
2025	24,110	14,609
2026	24,584	14,009
2027 - 2031	168,610	56,496
2032 - 2036	162,674	30,945
2037 - 2041	90,229	10,300
2042 - 2046	31,130	2,259
2047 - 2051	395	40
	\$ 616,533	\$ 175,900

HRSD defeased certain revenue bonds by placing the proceeds of new bonds in an irrevocable trust to provide for all future debt service payments on the old bonds. Accordingly, the trust account assets and the liability for the defeased bonds are not included in the fund's financial statements. At June 30, 2021, the following defeased bonds from advance refunding are still outstanding:

Defeased In	Original Issue	Amount	Redemption	
2017	Series 2012A	\$ 26,241,969	07/01/22	
2017	Series 2016A	8,446,740	08/01/26	
2019	Series 2014A	41,181,609	07/01/24	
2019	Series 2016A	28,504,380	08/01/26	
2019	Series 2016A	131,891,081	08/01/26	
2019	Series 2017A	13,946,850	10/01/27	
2019	Series 2018A	14,105,476	10/01/27	
2019	Series 2018A	 36,741,484	10/01/27	
		\$ 301,059,589		

# **NOTE 10 - NET POSITION**

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#### Restricted Portion of Net Position

Restricted for debt service. HRSD's Trust Agreement requires that funds be set aside for its revenue bond debt service. At June 30, 2021 and 2020, \$30,455,000 and \$28,155,000, respectively, were contained in the unrestricted net position.

#### Unrestricted Portion of Net Position

Reserved for Improvement. HRSD's Master Trust Agreement requires a reserve for improvements. There is no specific funding mechanism established by the Trust Agreement. At June 30, 2021 and 2020, \$186,000 and \$267,000, respectively, was contained in the unrestricted net position. HRSD was in compliance with all funding requirements of this reserve during the fiscal years ended June 30, 2021 and 2020.

Reserved for Construction. A reserve for the construction program is based on funds designated by HRSD's Commission for such purposes. At June 30, 2021 and 2020, \$6,034,000 and \$22,210,000, respectively, was contained in the unrestricted net position.

#### **NOTE 11 - RISK MANAGEMENT**

HRSD is exposed to various risks of loss related to torts; theft of, damage to and destruction of assets; employee dishonesty; injuries to employees; and natural disasters. HRSD purchases commercial insurance for specific types of coverage including property, liability, auto, crime, public officials and workers' compensation. There were no significant reductions in insurance coverage from the prior year. Claim settlements and judgments not covered by commercial insurance are covered by operating resources. The amount of settlements did not exceed insurance coverage for each of the past three years. Claim expenditures and liabilities are reported when it is probable that a loss has occurred and the amount of the loss can be reasonably estimated.

HRSD has a self-insured health, dental and vision care benefits program for all employees. Claims processing and payments for all health care claims are made through third-party administrators. HRSD uses the information provided by the third-party administrators and a health care benefits consultant to aid in the determination of self-insurance reserves. Hospitalization Reserve is included in Other Liabilities in the Current Liabilities section of the Statements of Net Position.

(in thousands)	Beginning	of	Estimated			End of
	Fiscal Yea	ar	Claims Incurred	Claims Paid		Fiscal Year
2020	\$	4,290 \$	12,079	\$ (11,	848) \$	4,521
2021		4.521	14.116	(13.	.860)	4.777

# **NOTE 12 - COMMITMENTS AND CONTINGENCIES**

#### **Consent Decree**

On December 19, 2014, the Commonwealth of Virginia entered into a long-term State Consent Agreement (the "2014 Consent Agreement") with 14 of the localities that HRSD serves. The 2014 Consent Agreement requires the localities to perform long-term management, operations and maintenance of their sewer systems in support of HRSD's efforts to provide long-term regional wet weather wastewater capacity. HRSD is not a party to the 2014 Consent Agreement. Instead, HRSD's obligation to provide regional wet weather sewer capacity is now solely imposed through its federal consent decree (the "Consent Decree"). HRSD entered into the Consent Decree with the Commonwealth and the United States Environmental Protection Agency ("EPA").

The Consent Decree was entered by the federal district court for the Eastern District of Virginia (the "District Court") on February 23, 2010. The Consent Decree has been amended four times, most recently on February 21, 2017 (the "Amended Consent Decree").

The Amended Consent Decree has two major operative requirements. First, it requires HRSD to develop a Regional Wet Weather Management Plan ("RWWMP") to control capacity-related sewer overflows within the 14 localities. However, through the third and fourth amendments, HRSD has now assumed responsibility for planning (in consultation with the 14 affected localities), designing, funding, and implementing the controls in both the localities' systems and the HRSD system that will be contained in the approved RWWMP. Through this approach, HRSD estimates the regional ratepayers will achieve significantly reduced program costs than if each locality sought to address peak wet weather wastewater flows on its own. To facilitate these regional cost savings, the Amended Consent Decree extended the RWWMP submission deadline to October 1, 2017. To further facilitate this approach, the 14 affected localities entered into a Memorandum of Agreement with HRSD in 2014 in which they agreed to (1) cooperate with HRSD, (2) facilitate the construction of and accept ownership of any improvements which HRSD may need to construct in the localities' systems, and (3) maintain the integrity of their systems to industry standards.

The Amended Consent Decree also requires HRSD to implement a total of 45 projects from its ten-year CIP. These 45 projects total approximately \$306 million. Accordingly, HRSD has timely and fully satisfied the requirement of the Amended Consent Decree to implement these 45 early action projects.

The Amended Consent Decree authorizes HRSD to submit the RWWMP as part of an Integrated Management Plan ("IMP"). HRSD intends to use the IMP approach to facilitate the timing and financing of both its RWWMP and its SWIFT Program. The SWIFT Program will assist the Commonwealth to meet its Chesapeake Bay nutrient reduction commitments and save HRSD's 14 localities approximately \$1 to \$2 billion in avoided Chesapeake Bay-related stormwater control costs.

HRSD has agreed to a fifth amendment to its ongoing federal consent decree with the United States Environmental Protection Agency ("USEPA") and the Commonwealth of Virginia ("Commonwealth"). The fifth amendment is expected to be lodged with the federal court in late 2020 and entered by the court in early 2021. The fifth amendment includes a schedule for wastewater system improvements that accommodates the SWIFT program. That schedule requires that HRSD implement \$200 million worth of sewer overflow control projects between 2020 and 2030 and then another \$200 million in sewer overflow control projects between 2030 and 2040. These two sets of projects reflect further priority system improvements that HRSD is to implement along with the Project. The fifth amendment gives HRSD until 2032 to complete the SWIFT program. Finally, the fifth amendment provides that if HRSD does not fully implement the Project or delays full implementation past 2032 then EPA can require HRSD to accelerate some or all of the second group (\$200 million worth) of sewer overflow control projects to offset the avoided investment in the SWIFT program.

#### **Litigation**

In 2018, oystermen leasing oyster beds in the Nansemond River filed a petition for declaratory judgment against the City of Suffolk, Virginia, and HRSD alleging that they had intentionally designed and operated their storm water system (Suffolk) and sanitary sewers (both) to discharge contaminants onto the oystermen's oyster beds (leased from the Virginia Marine Resources Commission), resulting in condemnation of their oysters by the Virginia Department of Health. In September 2019, the Suffolk Circuit Court granted demurrers filed by Suffolk and HRSD and dismissed the oystermen's petition. On May 18, 2020, the Supreme Court of Virginia agreed to hear the oystermen's appeal. On December 10, 2020, the Virginia Supreme Court affirmed the lower court decision dismissing the petition.

# **Capital Commitments**

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HRSD has a major capital improvement and expansion program funded through the issuance of debt and its own resources. As of June 30, 2021, HRSD has outstanding commitments for contracts in progress of approximately \$582,703,000.

## **NOTE 13 - FAIR VALUE MEASUREMENTS**

HRSD 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. Level 1 inputs are quoted prices in active markets for identical assets. Level 2 inputs are significant other observable inputs. Level 3 inputs are significant unobservable inputs.

Debt securities reported as investments are classified in Level 2 of the fair value hierarchy and are valued using the following approaches:

- U.S. Treasury securities are valued using quoted prices for identical or similar securities.
- All other investments are valued based on matrix pricing using observable data of securities with similar attributes.

Investments reported as cash and cash equivalents are not included of the fair value hierarchy and are valued using the following:

■ The Virginia Investment Pool Trust Fund (the "Trust" or "VIP") is an Internal Revenue Code Section 115 governmental trust fund created under the Joint Exercise of Powers statue of the Commonwealth of Virginia to provide political subdivisions with an investment vehicle to pool their funds and to invest such funds into two or more investment portfolios under the direction and daily supervision of a professional fund manager. The Trust was established and created by the City of Chesapeake, Virginia, and the City of Roanoke, Virginia (the "Founding Participants") and operates under the Trust Agreement as amended September 23, 2016. All deposits to VIP initially go into the Stable NAV Liquidity Pool, which serves both as a liquidity pool and as a sweep account for the 1-3 Year High Quality Bond Fund. HRSD's total investment in VIP is \$65,054,000 (valued at amortized cost) in the 1-3 Year High Quality Bond Fund and \$108,890,000 in the Stable NAV Liquidity Pool as of June 30, 2021.

#### **HRSD OPEB Trust Investments**

The HRSD OPEB Trust has investments in mutual funds, cash, and cash equivalents on deposit with its trustee, U.S. Bank. HRSD categorizes its fair value measurements within the fair value hierarchy consistent with the approach described above.

Balance at June 30, 2021 (in thousands)	Fai	ir Value		Level 1		Level 2		Level 3
Investments by Fair Value Level								
Mutual Funds - Equity	\$	45.798	Ф	31.062	Ф	14.736	Ф	
	Ψ	-,	φ	- ,	φ	,	φ	-
Mutual Funds - Fixed Income		22,058		2,096		19,962		-
Miscellaneous		1,080		-		1,080		-
Other Income		2,632		-		-		2,632
Total Investments by Fair Value Level	\$	71,568	\$	33,158	\$	35,778	\$	2,632
Cash Equivalents Measured at Net Asset Value								
First American Government Obligation		98						
Fiduciary Net Position of HRSD's OPEB								
Plan as of June 30, 2021	\$	71,666						

Balance at June 30, 2020	Fair	Value	Level 1	Level 2	Level 3
(in thousands)					
Investments by Fair Value Level					
Mutual Funds - Equity	\$	31,920	\$ 5,018	\$ 26,902	\$ -
Mutual Funds - Fixed Income		22,393	5,963	16,430	-
Other Income		2,412	-	-	2,412
Total Investments by Fair Value Level	\$	56,725	\$ 10,981	\$ 43,332	\$ 2,412
Cash Equivalents Measured at Net Asset Value					
First American Government Obligation		187			
Fiduciary Net Position of HRSD's OPEB					
Plan as of June 30, 2020	\$	56,912			

Additional information about HRSD's OPEB Plan is in Notes 3 and 7.

#### **NOTE 14 - FIDUCIARY ACTIVITIES**

As discussed in Note 2, under New Accounting Pronouncement, HRSD adopted GASB Statement No. 84, *Fiduciary Activities*, (the Statement) effective July 1, 2020. In accordance with the requirements of this Statement, HRSD has prepared fiduciary fund financial statements for the fiscal years ended June 30, 2021 and 2020. The statements include information on one of HRSD's three postemployment benefits other than pensions (other postemployment benefits, or OPEB) plans, and information on funds held by HRSD to apply toward customer accounts.

#### Retiree Health Plan

Detailed information related to HRSD's Retiree Health Plan (RHP) is included in Notes 2, 3, 7 and 13 and in the Required Supplementary Information section of the Comprehensive Annual Financial Report. The RHP meets the requirements of GASB 84 for inclusion in the fiduciary fund financial statements. HRSD's other two OPEB plans are administered by VRS so do not qualify for inclusion. The RHP has total assets of \$71.7 million, which is restricted to providing postretirement benefits for plan participants.

# Coronavirus Aid, Relief, and Economic Securities Act

In response to the COVID-19 pandemic disaster, the United States federal government enacted the Coronavirus Aid, Relief, and Economic Securities Act of 2020 ("CARES Act") to provide funding for numerous programs to address the COVID-19 pandemic disaster, providing assistance to states, local, territorial, and tribal governments for direct impacts of the COVID-19 pandemic disaster through the establishment of the Coronavirus Relief Fund (CRF). Consistent with the CARES Act, the Commonwealth of Virginia established a COVID-19 Utility Relief Program (Program) to provide direct assistance to utility customers with accounts over 30 days in arrears.

During the fiscal year ended June 30, 2021, HRSD received federal CARES Act funds in the amount of \$9.1 million. The City of Norfolk and James City Service Authority (the partner localities) served as pass-through agents for funds distributed through the Commonwealth of Virginia's State Corporation Commission. As of June 30, 2021, HRSD applied \$7.5 million to the accounts of customers who qualified for relief under the terms of the Program. If all the HRSD CRF Funds are not expended to assist utility customers by any applicable deadline under the Program such that HRSD is obligated to return unexpended funds to the Commonwealth, HRSD and the partner localities shall coordinate to accomplish the return of such funds in a timely manner in accordance with the CRF Rules.

#### **NOTE 15 - SUBSEQUENT EVENTS**

The Water Infrastructure Finance and Innovation Act (WIFIA) program, managed by the Environmental Protection Agency (EPA), accelerates investment in our nation's water infrastructure by providing long-term, low-cost supplemental loans for regionally and nationally significant projects. WIFIA loans allow borrowers to lock-in a rate equivalent to the US Treasury rate plus one basis point at closing. HRSD submitted a Letter of Interest in 2019 and was approved to apply for the SWIFT program. Due to the long duration of the SWIFT program, a Master Financing Agreement (MFA) was required to allow for multiple loans (tranches). Each tranche will be a group of projects that have met environmental requirements. On September 28, 2020, HRSD executed an MFA that outlines the terms and conditions of the loans and caps the amount borrowed at \$1.048 billion. In addition, HRSD closed on the first tranche,

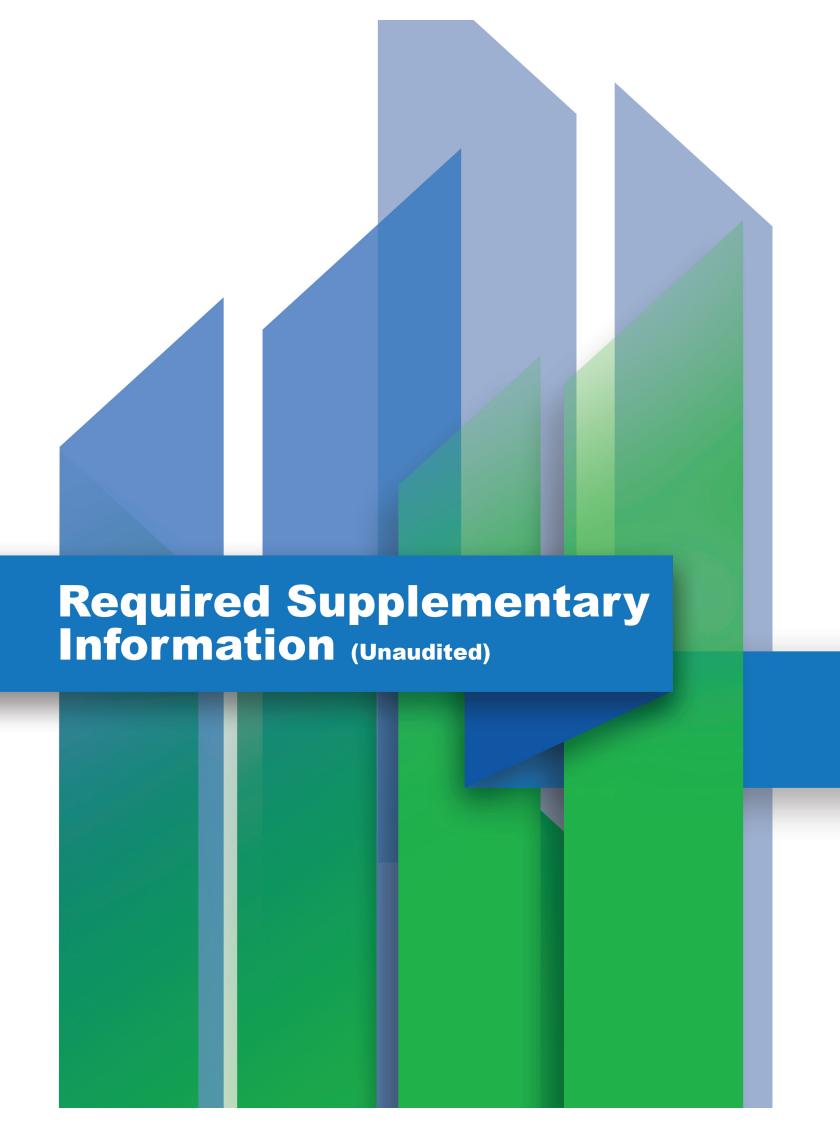
INTRODUCTORY FINANCIAL SECTION

REQUIRED SUPPLEMENTARY INFORMATION STATISTICAL SECTION (UNAUDITED) OTHER SUPPLEMENTAL SECTION (UNAUDITED)

which was \$225 million for approximately 34 years at a rate of 1.42 percent. In September 2020 HRSD closed on the first tranche, which was \$225 million for approximately 34 years at a rate of 1.42 percent. In September 2021 HRSD closed on the second tranche, which was \$477 million for approximately 34 years at a rate of 1.95 percent.



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# SCHEDULE OF CHANGES IN NET PENSION LIABILITY AND RELATED RATIOS

(in the user de)		2020		2019		2018		2017		2016		2015		2014
(in thousands)		2020		2019		2018		2017		2016		2015		2014
Total pension liability	Φ	4.000	Φ	2.040	Φ	2 005	Φ	4 4 4 5	Φ	4.005	Φ	4 445	Φ	2.042
Service cost	\$	4,229	\$	3,946	Ф	3,825	Ф	4,145	ф	4,025	Ф	,	Ф	3,943
Interest		16,223		15,598		14,953		14,750		13,872		13,559		12,906
Changes in assumptions		-		7,378		-		(3,975)		-		-		-
Differences between expected and actual experience		(991)		760		(101)		(3,175)		2,980		(4,910)		-
Benefit payments, including refunds of employee contributions		(10,696)		(9,655)		(9,250)		(8,475)		(8,161)		(8,446)		(6,607)
Net change in total pension liability		8,765		18,027		9,427		3,270		12,716		4,318		10,242
Total pension liability - beginning		245,686		227,659		218,232		214,962		202,246		197,928		187,686
Total pension liability - ending (a)	\$	254,451	\$	245,686	\$	227,659	\$	218,232	\$	214,962	\$	202,246	\$	197,928
Plan fiduciary net position														
Contributions - employer	\$	2,897	\$	2,866	\$	3,710	\$	3,609	\$	4,083	\$	4,099	\$	4,114
Contributions - employee		2.538		2,468		2,424		2,351		2,286		2,314		2,267
Net investment income		4,115		13,739		14,451		21,526		3,062		7,807		23,313
Benefit payments, including refunds of employee contributions		(10,696)		(9,655)		(9,250)		(0.475)		(8,161)		(0.446)		(6,607)
		, , ,		( , ,		, ,		(8,475)		, , ,		(8,446)		, ,
Administrative expense		(142)		(137)		(125)		(124)		(109)		(107)		(125)
Other	_	(5)		(8)		(12)		(19)		(1)		(2)		1
Net change in plan fiduciary net position		(1,293)		9,273		11,198		18,868		1,160		5,665		22,963
Plan fiduciary net position - beginning	_	216,628		207,355	Φ.	196,157	Φ.	177,289	Φ.	176,129	Φ.	170,464		147,501
Plan fiduciary net position - ending (b)	\$	215,335	\$	216,628	\$	207,355	\$	196,157	\$	177,289	\$	176,129	\$	170,464
Net pension liability - ending (a) - (b)	\$	39,116	\$	29,058	\$	20,304	\$	22,075	\$	37,673	\$	26,117	\$	27,465
Plan fiduciary net position as a percentage of the total pension liability (b)/(a)		84.63%	6	88.17%	6	91.08%	6	89.88%	, D	82.47%	6	87.09%	, 0	86.12%
Covered payroll ( c )	\$	53,085	\$	51,336	\$	50,874	\$	49,286	\$	47,838	\$	47,674	\$	46,096
Net pension liability as a percentage of the covered payroll ((a)-(b))/( c )		73.69%	6	56.60%	6	39.91%	6	44.79%	, D	78.75%	6	54.78%	, 0	59.58%

This schedule is presented to show information for 10 years. However, until a full ten-year trend is compiled, HRSD will present information for those years for which information is available.



# SCHEDULE OF EMPLOYER PENSION CONTRIBUTIONS FOR THE YEARS ENDED JUNE 30, 2012 THROUGH 2021

Date	Contractually Required Contribution	Contribution in Relation to Contractually Required Contribution	Contribution Deficiency (Excess)		Employer's Covered Payroll	Contributions as a % of Covered Payroll
2021	\$ 3,453,000	\$ 3,453,000	\$	- \$	54,107,000	6.38%
2020	2,897,000	2,897,000		-	53,085,000	5.46%
2019	2,866,000	2,866,000		-	51,336,000	5.58%
2018	3,635,000	3,635,000		-	50,874,000	7.15%
2017	4,326,000	4,326,000		-	49,286,000	8.78%
2016	4,222,000	4,222,000		-	47,838,000	8.83%
2015	4,207,000	4,207,000		-	47,674,000	8.82%
2014	4,107,000	4,107,000		-	46,096,000	8.91%
2013	4,075,000	4,075,000		-	45,044,000	9.05%
2012	4,580,000	4,580,000		-	42,166,000	10.86%

#### Notes to Required Supplementary Information For the Year Ended June 30, 2021:

# Changes of benefit terms -

There have been no actuarially material changes to the VRS benefit provisions since the prior actuarial valuation.

#### Changes of assumptions -

The actuarial assumptions used in the June 30, 2018, valuation were based on the results of an actuarial experience study for the period from July 1, 2012, through June 30, 2016, except the change in the discount rate, which was based on VRS Board action effective as of July 1, 2019. Changes to the actuarial assumptions as a result of the experience study and VRS Board action are as follows:

Mortality Rates (Pre-retirement, post-retirement healthy, and disabled)	Updated to a more current mortality table - RP-2014 projected to 2020
Retirement Rates	Lowered rates at older ages and changed final retirement from 70 to 75 retirement
Withdrawal Rates	Adjusted rates to better fit experience at each year age and service through 9 years of service
Disability Rates	Lowered rates
Salary Scale	No change
Line of Duty Disability	Increase rate from 14% to 15%
Discount Rate	Decreased rate from 7.00% to 6.75%

Information pertaining to Pensions can be found in Notes 2 and 8 to the financial statements.

SECTION

#### **SCHEDULE OF CHANGES IN NET RHP OPEB LIABILITY (ASSET) AND RELATED RATIOS**

(in thousands)							
		2021		2020	2019	2018	2017
Total OPEB liability							
Service cost	\$	1,333	\$	1,345 \$	1,300 \$	1,260 \$	1,188
Interest		3,672		3,883	3,571	3,391	3,208
Changes in assumptions		-		(518)	(1,607)	-	-
Differences between expected and actual experience		2,930		(7,074)	3,302	-	-
Benefit payments, including refunds of employee contributions		(1,425)		(1,186)	(1,149)	(1,791)	(892)
Net change in total OPEB liability		6,510		(3,550)	5,417	2,860	3,504
Total OPEB liability - beginning		62,143		65,693	60,276	57,416	53,913
Total OPEB liability - ending (a)	\$	68,653	\$	62,143 \$	65,693 \$	60,276 \$	57,417
Plan fiduciary net position							
Contributions - employer	\$	1,963	\$	2,730 \$	2,993 \$	2,729 \$	2,558
Contributions - retirees		-		-	-	303	-
Net investment income		14,216		3,343	3,078	3,450	3,957
Benefit payments, including refunds of employee contributions		(1,425)		(1,186)	(1,149)	(1,791)	(892)
Administrative expense	_	-		-	-	(114)	(495)
Net change in plan fiduciary net position		14,754		4,887	4,922	4,577	5,128
Plan fiduciary net position - beginning	_	56,912		52,025	47,103	42,526	37,398
Plan fiduciary net position - ending (b)	\$	71,666	\$	56,912 \$	52,025 \$	47,103 \$	42,526
Net OPEB liability (asset) - ending (a) - (b)	\$	(3,013)	\$	5,231 \$	13,668 \$	13,173 \$	14,891
Plan fiduciary net position as a percentage of the total OPEB							
liability (b)/(a)		104.39%	ó	91.58%	79.19%	78.15%	74.07%
Covered payroll (c)	\$	55,731	\$	54,799 \$	52,070 \$	50,874 \$	49,286
Net OPEB liability (asset) as a percentage of the covered payroll		(5.41%	(۵	9.55%	26.25%	25.89%	30.21%
((a)-(b))/(c)		(3.417	· )	9.00/0	20.23/0	23.03/0	JU.Z 1 /0

This schedule is intended to show information for 10 years. However, until a full ten-year trend is compiled, HRSD will present information for those years for which information is available.

#### Notes to Required Supplementary Information For the Year Ended June 30, 2021:

Deficill changes.		None
Changes of assumptions:	Mortality	Updated to the latest Society of Actuaries (SOA) public sector experience study rates.
	Medical Trend	Developed using the SOA Long-Run Medical Cost Trend Model baseline assumption. The prior valuations used the SOA model as updated in November 2016 and included the impact of the Cadilac Tax. The current valuation uses the model as updated in September 2019 and does not include the impact of the Cadillac Tax.
Discount rate:	6/30/2019	6.00%

None

Renefit changes:



## SCHEDULE OF EMPLOYER RHP OPEB CONTRIBUTIONS FOR THE YEARS ENDED JUNE 30, 2012 THROUGH 2021

Date	ally Determined ontribution	Rel Actua	ntribution in ation to the rially Required ontribution	Contribution Deficiency (Excess)	Employer's Covered Payroll	Contributions as a % of Covered Payroll
2021	\$ 1,858,000	\$	1,963,000	\$ (105,000)	\$ 55,731,000	3.33%
2020	2,730,000		2,730,000	-	54,799,000	4.98%
2019	2,993,000		2,993,000	-	52,070,000	5.75%
2018	2,729,000		2,729,000	-	50,874,000	5.36%
2017	2,558,000		2,558,000	-	49,286,000	5.19%
2016	2,178,000		2,178,000	-	47,838,000	4.55%
2015	2,177,000		2,177,000	-	47,674,000	4.57%
2014	2,244,000		2,244,000	-	46,096,000	4.87%
2013	2,102,000		2,102,000	-	45,032,000	4.67%
2012	2,231,000		2,231,000	_	43,213,000	5.16%

Actuarial cost method Entry age normal

Amortization method Level percent of pay, closed

Amortization period An experience gain/loss base is created each year and amortized over a 15 year period

Asset valuation Smoothed market value with phase-in, using a 5-year smoothing period

Assumed rate of inflation 2.20%

Medical cost trend:

Pre Medicare 5.3%, stable at 5.3% after 3 years and decreasing to 3.6% after 53 years

Post Medicare 5.3%, stable at 5.3% after 3 years and decreasing to 3.4% after 53 years

Salary increase rate 2.50% Investments rate of return 6.00%

Mortality rates:

Healthy RP-2014 Mortality Table, Fully Generational, Projected with Scale MP-2014
Pre Medicare 5.3%, stable at 5.3% after 3 years and decreasing to 3.6% after 53 years

**INTRODUCTORY** 

SECTION

#### SCHEDULE OF EMPLOYER'S SHARE OF NET GLI OPEB LIABILITY AND RELATED RATIOS FOR THE MEASUREMENT DATES OF JUNE 30, 2017 THROUGH 2020

(in thousands)	•			
	2020	2019	2018	2017
Employer's Proportion of the Net GLI OPEB Liability	0.25814%	0.26208%	0.26214%	0.26016%
Employer's Proportionate Share of the Net GLI OPEB Liability	\$ 4,307 \$	4,265 \$	3,981 \$	3,915
Employer's Covered Payroll	53,126	51,376	49,846	47,987
Employer's Proportionate Share of the Net GLI OPEB Liability as a Percentage of its Covered Payroll	8.11%	8.30%	7.99%	816%
Plan Fiduciary Net Position as a Percentage of the Total GLI OPEB Liability	52.64%	52.00%	51.22%	48.86%

This schedule is intended to show information for 10 years. However, until a full ten-year trend is compiled, HRSD will present information for those years for which information is available.

In accordance with GAAP, Net Liability is reported using the measurement date, which is one year prior to the reporting date.

## SCHEDULE OF EMPLOYER GLI OPEB CONTRIBUTIONS FOR THE YEARS ENDED JUNE 30, 2012 THROUGH 2021

Date	in Relation in Relation Contractually Contract			ntribution elation to tractually d Contribution	ntribution ncy (Excess)	Empl	oyer's Covered Payroll	Contributions as a % of Covered Payroll		
2021	\$	293,000	\$	293,000	\$ -	\$	54,222,000	0.54%		
2020		276,000		276,000	-		53,126,000	0.52%		
2019		267,000		267,000	-		51,376,000	0.52%		
2018		259,000		259,000	-		49,846,000	0.52%		
2017		250,000		250,000	-		47,987,000	0.52%		
2016		246,000		223,000	23,000		46,417,000	0.53%		
2015		244,000		221,000	23,000		46,082,000	0.53%		
2014		240,000		217,000	23,000		45,283,000	0.53%		
2013		238,000		215,000	23,000		44,839,000	0.53%		
2012		183,000		117,000	66,000		41,681,000	0.44%		

#### Notes to Required Supplementary Information For the Year Ended June 30, 2021:

#### Changes of benefit terms -

There have been no actuarially material changes to the VRS benefit provisions.

#### Changes of assumptions -

The actuarial assumptions used in the June 30, 2016 valuation were based on the results of an actuarial experience study for the period from July 1, 2012 through June 30, 2016. Changes to the actuarial assumptions as a result of the experience study are as follows:

Mortality Rates (Pre-retirement, post-retirement healthy, and disabled)	Updated to a more current mortality table - RP-2014 projected to 2020
Retirement Rates	Lowered retirement rates at older ages and extended final retirement age from 70 to 75.
Withdrawal Rates	Adjusted termination rates to better fit experience at each age and service year
Disability Rates	Lowered disability rates
Salary Scale	No change
Line of Duty Disability	Increased rate from 14 to 15%
Discount Rate	Decreased rate from 7.00% to 6.75%

Information pertaining to OPEB can be found in Notes 2 and 7 to the financial statements.

## SCHEDULE OF CHANGES IN NET HIC OPEB LIABILITY AND RELATED RATIOS

(in thousands)								
		2020		2019		2018		2017
Total OPEB liability								
Service cost	\$	28	\$	26	\$	26	\$	27
Interest		137		134		130		129
Changes in assumptions		-		50		-		(22)
Differences between expected and actual experience		16		26		27		-
Benefit payments, including refunds of employee contributions		(129)		(124)		(133)		(94)
Net change in total OPEB liability		52		112		50		40
Total OPEB liability - beginning		2,093		1,981		1,931		1,891
Total OPEB liability - ending (a)	\$	2,145	\$	2,093	\$	1,981	\$	1,931
Plan fiduciary net position								
Contributions - employer	\$	111	\$	108	\$	95	\$	91
Net investment income		18		56		60		90
Benefit payments, including refunds of employee contributions		(129)		(124)		(133)		(94)
Administrative expense		(2)		(1)		(1)		(1)
Other	_	-		-		(5)		4
Net change in plan fiduciary net position		(2)		39		16		90
Plan fiduciary net position - beginning	_	925		886		870		780
Plan fiduciary net position - ending (b)	\$	923	\$	925	\$	886	\$	870
Net OPEB liability - ending (a) - (b)	\$	1,222	\$	1,168	\$	1,095	\$	1,061
Plan fiduciary net position as a percentage of the total OPEB liability (b)/(a)		43.03%	6	44.19%	6	44.72%	6	45.05%
Covered payroll ( c )	\$	53,085	\$	51,336	\$	49,821	\$	47,987
Net OPEB liability as a percentage of the covered payroll ((a)-(b))/(c)		2.30%	6	2.28%	6	2.20%	6	2.21%

This schedule is intended to show information for 10 years. However, until a full ten-year trend is compiled, HRSD will present information for those years for which information is available.



### SCHEDULE OF EMPLOYER HIC OPEB CONTRIBUTIONS FOR THE YEARS ENDED JUNE 30, 2012 THROUGH 2021

Date	tractually I Contribution	in R Con	ntribution elation to tractually d Contribution	Contribution Deficiency (Excess)		Emplo	oyer's Covered Payroll	Contributions as a % of Covered Payroll
2021	\$ 114,000	\$	114,000	\$	_	\$	54,107,000	0.21%
2020	111,000		111,000		-		53,085,000	0.21%
2019	108,000		108,000		-		51,336,000	0.21%
2018	95,000		95,000		-		49,821,000	0.19%
2017	91,000		91,000		-		47,987,000	0.19%
2016	74,000		74,000		-		46,417,000	0.16%
2015	74,000		74,000		-		46,076,000	0.16%
2014	86,000		86,000		-		45,283,000	0.19%
2013	85,000		85,000		-		44,835,000	0.19%
2012	100,000		100,000		-		41,634,000	0.24%

#### Notes to Required Supplementary Information For the Year Ended June 30, 2021:

#### Changes of benefit terms -

There have been no actuarially material changes to the VRS benefit provisions since the prior actuarial valuation.

#### Changes of assumptions -

The actuarial assumptions used in the June 30, 2018, valuation were based on the results of an actuarial experience study for the period from July 1, 2012, through June 30, 2016, except the change in the discount rate, which was based on VRS Board action effective as of July 1, 2019. Changes to the actuarial assumptions as a result of the experience study and VRS Board action are as follows:

Mortality Rates (Pre-retirement, post-retirement healthy, and disabled)	Updated to a more current mortality table - RP-2014 projected to 2020
Retirement Rates	Lowered retirement rates at older ages and extended final retirement age from 70 to 75.
Withdrawal Rates	Adjusted termination rates to better fit experience at each age and service year
Disability Rates	Lowered disability rates
Salary Scale	No change
Line of Duty Disability	Increased rate from 14 to 15%
Discount Rate	Decreased rate from 7.00% to 6.75%

Information pertaining to OPEB can be found in Notes 2 and 7 to the financial statements.





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# STATISTICAL SECTION

COMPREHENSIVE ANNUAL FINANCIAL REPORT / HAMPTON ROADS SANITATION DISTRICT

This section of HRSD's comprehensive annual financial report presents detailed information as a context for understanding what the information in the financial statements, note disclosures and required supplementary information says about HRSD's overall financial health.

Contents	Page
Demographic and Economic Information  This schedule offers demographic and economic indicators to help the reader understand the environment within which HRSD's financial activities take place and to help make comparisons over time and with other governments.	75
Financial Trends	76
These schedules contain trend information to help the reader understand how HRSD's financial performance and well-being have changed over time.	
Debt Capacity	79
This schedule presents information to help the reader assess the affordability of HRSD's current levels of outstanding debt and HRSD's ability to issue additional debt in the future.	
Revenue Capacity	80
These schedules contain information to help the reader assess the factors affecting HRSD's ability to generate revenue from rate payers.	
Operating Information	82
These schedules contain information about the HRSD's operations and resources to help the reader understand how the HRSD's financial information relates to the services HRSD provides and the activities it performs.	

**Sources:** Unless otherwise noted the information in these schedules is derived from the comprehensive annual financial reports and accounting records for the relevant year.

Unaudited - See accompanying independent auditors' report



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#### **DEMOGRAPHIC AND OTHER MISCELLANEOUS STATISTICS** June 30, 2021

			Juli	e 30, 202	1						
Date of Incorporation - 1940		2021	2020	2019	2018	2017	2016	2015	2014	2013	2012
Area in Square Miles (1)		4,998	3,087	3,087	3,087	3,087	2,808	2,808	2,808	2,808	2,808
Present Service Area in Square Mi	les (1)	766	758	758	758	758	672	672	672	672	672
Treatment Plants (Major)		9	9	9	9	9	9	9	9	9	9
Plant Capacity (Millions of Gallons	per Day)					_	-	_	_	_	-
Army Base Plant, Norfolk		18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0
Atlantic Plant, Virginia Beach		54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0
Boat Harbor Plant, Newport New	WS	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Chesapeake-Elizabeth Plant, Vi	rginia Beach	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
James River Plant, Newport Ne	•	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
Nansemond Plant, Suffolk		30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Virginia Initiative Plant, Norfolk		40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0
Williamsburg Plant, James City	County	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5
York River Plant, York County		15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
Total Treatment Plants (Major) Cap	pacity	248.5	248.5	248.5	248.5	248.5	248.5	248.5	248.5	248.5	248.5
Small Communities Treatment Plan	,	7	7	7	7	5	4	4	4	4	5
Small Communities Plant Capacity		·	·	•		· ·	•		•	•	Ū
Central Middlesex, Middlesex C	` ' '	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.030
King William Plant, King William	County	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100
Lawnes Point, Isle of Wight Cou		0.050	0.050	0.050	0.050	0.050	-	-	-	-	-
Mathews Plant, Mathews Count	y (3)	-	-	-	-	-	-	-	-	-	0.100
Surry County (4)		0.065	0.065	0.065	0.065	-	-	-	-	-	-
Town of Surry (4)		0.060	0.060	0.060	0.060	-	-	-	-	-	-
Urbanna Plant, Middlesex Coun	,	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100
West Point Plant, King William (		0.600	0.600	0.600	0.600	0.600	0.600	0.600	0.600	0.600	0.600
Total Small Communities Treatmen	nt Plants Capacity	1.000	1.000	1.000	1.000	0.875	0.825	0.825	0.830	0.830	0.930
Miles of Interceptor Systems		540	541	541	542	540	536	532	531	531	532
Interceptor Pump Stations		90	88	87	88	89	88	83	83	83	83
Small Communities Pump Stations	•	42	42	41	34	38	33	33	33	29	29
Maintenance Facilities		2	2	2	2	2	2	2	2	2	2
Number of Service Connections (ir	,	481	478	476	473	470	467	465	462	460	458
Daily Average Treatment in Millions		154	141	153	145	153	155	152	154	158	147
Bond Rating: Moody's	Senior	Aa1	Aa1	Aa1	Aa1	Aa2	Aa2	Aa2	Aa2	Aa2	Aa2
	Subordinate Long-term	Aa1	Aa1	Aa2	Aa2	-	-	-	-	-	-
Bond Rating: Standard & Poor's	Senior	AA+	AA+	AA+	AA+	AA+	AA+	AA+	AAA	AAA	AAA
	Subordinate Long-term	AA+	AA+	AA+	AA	AA	AA	AA	AA+	AA+	AA+
	Subordinate Short-term	A-1+	A-1+	A-1+	A-1+	A-1+	A-1+	A-1+	A-1+	A-1+	A-1+
Bond Rating: Fitch	Senior	AA+	AA+	AA+	AA+	AA+	AA+	AA+	AA+	AA+	AA+
	Subordinate Long-term	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA
	Subordinate Short-term	F1+	F1+	F1+	F1+	F1+	F1+	F1+	F1+	F1+	F1+

<sup>(1)</sup> HRSD added additional service areas in the counties of Isle of Wight and Surry during the year ended June 30, 2017 and the Eastern Shore of Virginia during the year ended June 30, 2021.

<sup>(2)</sup> Lawnes Point was acquired during the year ended June 30, 2017.

<sup>(3)</sup> The Mathews Treatment Plant has been closed. Wastewater from the area is now handled by the York River Treatment Plant.

<sup>(4)</sup> The Surry Plants were acquired during the year ended June 30, 2018.



## SCHEDULE OF OPERATING REVENUES, EXPENSES, NET POSITION BY COMPONENT AND DEBT SERVICE EXPENSES LAST TEN FISCAL YEARS

(in thousands)					1	adjusted)
	2021	2020	2019	2018	(	2017
OPERATING REVENUES						
Wastewater treatment charges	\$ 325,817	\$ 318,585	\$ 299,323	\$ 275,539	\$	254,961
Miscellaneous	3,952	3,447	3,798	3,504		3,669
TOTAL OPERATING REVENUES	 329,769	322,032	303,121	279,043		258,630
OPERATING EXPENSES						
Wastewater treatment	132,820	122,393	117,189	116,982		113,100
General and administrative	48,691	46,949	41,121	40,480		40,287
Depreciation	53,278	51,383	53,225	52,349		49,311
TOTAL OPERATING EXPENSES	234,789	220,725	211,535	209,811		202,698
OPERATING INCOME	94,980	101,307	91,586	69,232		55,932
NON-OPERATING REVENUES (EXPENSES)						
Wastewater facility charges	7,379	6,444	6,662	6,673		7,511
Investment income	471	5,876	8,719	3,654		2,287
Bond interest subsidy	2,167	2,205	2,308	2,330		2,275
Change in fair value of investments	-	-	-	(1,382)		(1,119
Capital distributions to localities	(376)		-	(311)		(138
Bond issuance costs	(682)	(1,290)	(53)	(1,061)		(42
Disposal of capital assets	(05.000)	(739)	(07.004)	(00,000)		(00.000
Interest expense  NET NON-OPERATING EXPENSES	 (25,339)	(26,179)	(27,964)	(20,226)		(22,630
	 (16,380)	(13,683)	(10,328)	(10,323)		(11,856
INCOME (LOSS) BEFORE CONTRIBUTIONS	78,600	87,624	81,258	58,909		44,076
CAPITAL CONTRIBUTIONS			0.444	0.500		7 400
State capital grants	- 0.047	-	2,444	2,502		7,462
Other capital contributions	 2,317	578	374	 2,124		1,136
CHANGE IN NET POSITION	\$ 80,917	\$ 88,202	\$ 84,076	\$ 63,535	\$	52,674
NET POSITION						
Net Investment in capital assets	\$ 776,253	\$ 646,505	\$ 494,779	\$ 512,398	\$	428,670
Restricted for debt service	30,455	28,155	28,553	27,799		22,701
Restricted for debt service reserve fund	-	-	-	-		-
Unrestricted	 144,116	283,449	258,373	157,432		202,907
TOTAL NET POSITION	\$ 950,824	\$ 958,109	\$ 781,705	\$ 697,629	\$	654,278
DEBT SERVICE EXPENDITURES						
Senior debt	\$ 26,085	\$ 28,595	\$ 33,592	\$ 36,488	\$	35,837
Subordinate debt	\$ 33,128	\$ 30,416	\$ 28,313	\$ 20,633	\$	23,603
Senior Debt Service Coverage (GAAP)	6.03	5.80	4.84	3.59		3.10
Subordinate Debt Service Coverage (GAAP)	4.75	5.46	5.74	6.36		5.09
Total Debt Service Coverage (GAAP)	2.66	2.81	2.62	2.03		1.93
Total Debt (Adjusted Cash Basis)	\$ 59,213	\$ 59,011	\$ 61,905	\$ 57,171	\$	57,988
Total Debt Service Coverage (Adjusted Cash Basis)	2.66	2.81	2.62	2.30		2.00

#### Notes:

FY2018 - HRSD implemented GASB Statement 75 effective July 1, 2017, which requires recording net OPEB assets or liabilities and related deferred outflows and inflows of resources.

FY2019 - HRSD implemented GASB Statement 89 effective July 1, 2018, establishes accounting reuirements for interest cost incurred before the end of a construction period.

(Continued)

**INTRODUCTORY** 

SECTION

## SCHEDULE OF OPERATING REVENUES, EXPENSES, NET POSITION BY COMPONENT AND DEBT SERVICE EXPENSES LAST TEN FISCAL YEARS

(in thousands)					(	adjusted)		(adjusted)		
		2016		2015		2014		2013		2012
OPERATING REVENUES	•	004.000	•	004.000	•	044 500	•	100.010	•	40404
Wastewater treatment charges	\$	234,020	\$	221,626	\$	211,538	\$	199,318	\$	194,817
Miscellaneous TOTAL OPERATING REVENUES		3,861 237,881		3,935 225,561		3,643 215,181		3,297 202,615		2,996 197,813
		237,001		223,301		215,161		202,615		197,013
OPERATING EXPENSES						400 440				=
Wastewater treatment		106,575		114,137		109,149		86,973		110,783
General and administrative Depreciation		40,026 45,670		38,678 41,871		33,012 42,761		31,410 45,414		31,163 41,250
TOTAL OPERATING EXPENSES		192,271		194,686		184,922		163,797		183,196
OPERATING INCOME		45,610		30,875		30,259		38,818		14,617
NON-OPERATING REVENUES (EXPENSES)										
Wastewater facility charges		6,699		7,428		6,640		5,851		6,276
Investment income		1,563		1,695		1,872		1,705		1,681
Bond interest subsidy		2,399		2,444		2,364		2,602		2,602
Change in fair value of investments		750		(286)		(422)		(714)		(224
Capital distributions to localities Bond issuance costs		(3,287)		(768)		-		(658)		(2,206
Disposal of capital assets		(1,713)		(700)		-		(1,649)		(2,200
Interest expense		(21,631)		(22,958)		(25,650)		(24,330)		(22,760
NET NON-OPERATING EXPENSES		(15,220)		(12,445)		(15,196)		(17,193)		(14,631
INCOME (LOSS) BEFORE CONTRIBUTIONS		30,390		18,430		15,063		21,625		(14
,		30,330		10,400		10,000		21,020		(17
CAPITAL CONTRIBUTIONS		14,389		16,519		13,888		10,172		14,806
State capital grants Other capital contributions		14,309		3,000		13,000		10,172		14,000
•	_						_			
CHANGE IN NET POSITION	\$	44,779	\$	37,949	\$	28,951	\$	31,797	\$	14,792
NET POSITION										
Net Investment in capital assets	\$	410,287	\$	385,597	\$	351,191	\$	337,342	\$	348,407
Restricted for debt service		23,798		22,070		24,064		23,843		15,736
Restricted for debt service reserve fund		407.540		44,118		45,207		-		400.050
Unrestricted		167,519		105,040		134,485		164,811		130,056
TOTAL NET POSITION	\$	601,604	\$	556,825	\$	554,947	\$	525,996	\$	494,199
DEBT SERVICE EXPENDITURES										
Senior debt	\$	38,198	\$	43,842	\$	47,331	\$	37,574	\$	33,023
Subordinate debt	\$	17,068	\$	13,091	\$	14,112	\$	11,243	\$	13,694
Senior Debt Service Coverage (GAAP)		2.56		1.90		1.76		2.48		1.94
Subordinate Debt Service Coverage (GAAP)		5.72		6.36		5.92		8.27		4.67
Total Debt Service Coverage (GAAP)		1.77		1.46		1.36		1.91		1.37
Total Debt (Adjusted Cash Basis)	\$	54,643	\$	-	\$	-	\$	-	\$	
Total Debt Service Coverage (Adjusted Cash Basis)		1.85		_		_		_		

#### Notes:

- FY2013 HRSD implemented GASB Statement 65 effective July 1, 2012, which requires expensing bond issuance costs in the year incurred.
   HRSD adjusted the financial records to include inventory assets.
- FY2014 HRSD implemented GASB Statements 68 and 71 effective July 1, 2014, which requires recording net pension assets or liabilities and related deferred outflows and inflows of resources.
- FY2016 HRSD is showing Debt Service Coverage on both a GAAP basis and an Adjusted Cash basis to account for distributions to localities in accordance with its Amended Subordinate Trust Agreement Section 705(a) enacted in March 2016.

#### HAMPTON ROADS SANITATION DISTRICT

## OBJECTIVE CLASSIFICATION OF DEPARTMENTAL EXPENSES FOR OPERATIONS - LAST TEN FISCAL YEARS

(in thousands)												
	2021	2020	2	.019	2018	2017	2016	2015		2014	2013	2012
Personal Services	\$ 60,250	\$ 59,666 \$		56,336 \$	55,160	\$ 53,401	\$ 51,801 \$	52,35	7 \$	50,538	\$ 49,361	\$ 47,319
Fringe Benefits	23,879	21,417		18,235	20,275	19,106	17,974	18,24	9	20,170	20,039	17,800
Repairs and Maintenance (1)	21,207	17,419		13,786	16,763	19,933	22,824	31,45	51	22,320	23,075	26,057
Materials and Supplies	11,413	9,364		9,314	8,865	8,310	7,843	4,34	3	5,764	5,700	8,349
Transportation	1,100	1,194		1,423	1,271	1,386	1,537	1,29	7	1,417	1,376	1,319
Utilities	12,947	12,584		12,749	11,968	11,523	11,249	10,50	3	11,126	12,295	12,027
Chemical Purchases	8,719	8,760		8,746	8,750	8,020	7,512	7,11	9	7,752	7,892	8,587
Contractual Services	37,278	33,748		32,123	30,165	26,977	21,573	15,12	27	14,222	13,993	12,312
Miscellaneous Expense	2,685	2,953		2,622	2,509	2,329	1,842	2,88	80	1,274	1,172	1,324
General (2)	2,033	2,237		2,976	1,736	2,402	2,446	9,48	89	7,578	6,487	6,852
Subtotal, Expense before Depreciation	 181,511	169,342		158,310	157,462	153,387	146,601	152,81	5	142,161	141,390	141,946
Depreciation	53,278	51,383		53,225	52,349	49,311	45,670	41,87	'1	42,761	45,414	41,250
Total Operating Expenses	\$ 234,789	\$ 220,725 \$		211,535 \$	209,811	\$ 202,698	\$ 192,271 \$	194,68	86 \$	184,922	\$ 186,804	\$ 183,196

<sup>(1)</sup> Includes Capital Improvement Program items expensed

<sup>(2)</sup> Includes bad debt expense

## RATIOS OF OUTSTANDING DEBT BY TYPE June 30, 2021

(in thousands)						
	No. Of	Senior	Subordinate	Total		Debt Per
As of	Service	Revenue	Revenue	Outstanding	:	Service
June 30,	Connections	Bonds	Bonds	Debt	Co	onnection
2021	481,000	\$ 202,486	\$ 632,520	\$ 835,006	3	1,736
2020	478,000	219,776	615,703	835,479		1,748
2019	476,000	326,531	565,098	891,629		1,873
2018	473,000	349,313	542,129	891,442		1,885
2017	470,000	458,255	388,529	846,784		1,802
2016	467,000	476,734	402,560	879,294		1,883
2015	465,000	649,202	99,195	748,397		1,609
2014	462,000	656,503	109,850	766,353		1,659
2013	460,000	670,272	120,231	790,503		1,718
2012	458,000	510,951	128,335	639,286		1,396

Note: Unamortized bond premiums are included in both senior and subordinate revenue bonds.

## RATE SCHEDULE WASTEWATER TREATMENT CHARGES LAST TEN FISCAL YEARS

	202	1	2020		2019	2018	2017	2016	2015	2014	 2013	:	2012
Residential - Metered Per CCF * (single step) Minimum Charges	\$	5.86	\$ 5.86	\$	5.37	\$ 4.92	\$ 4.51	\$ 4.13	\$ 3.83	\$ 3.55	\$ 3.29	\$	3.05
Per day		0.30	0.30		0.30	0.30	0.30	0.25	0.25	0.25	0.25		0.25
Residential - Unmetered per 30-day period Flat rate accounts		48.64	48.64		34.91	31.98	29.32	26.32	26.32	26.32	26.32		24.40
Non-Residential - Special Category Biochemical Oxygen Demand (BOD) Excess over 282 mg/liter Per mg/liter per CCF Per Hundred Pounds	0.00	00129 -	0.000129		0.000104	0.000091	0.000206	0.000485	0.000612	0.001558	0.002451		- 46.77
Total Suspended Solids (TSS) Excess over 261 mg/liter Per mg/liter per CCF Per Hundred Pounds	0.00	00630	0.000630		0.000592	0.000520	0.000454	0.000448	0.000417	0.001244	0.00		- 36.70
Total Phosphorus (TP) Excess over 6 mg/liter Per mg/liter per CCF Per Hundred Pounds	0.00	)9871 -	0.009871		0.009535	0.011569	0.011642	0.004361	0.004344	0.011714	0.01		- 300.57
Total Kjeldahl Nitrogen (TKN) Excess over 47 mg/liter Per mg/liter per CCF Per Hundred Pounds	0.00	)3378	0.003378		0.003595	0.003156	0.001660	0.000917	0.000756	0.001752	0.00		- 74.51
Unusual wastes not covered by this scl	nedule ma	ay be a	ssigned a spe	cial	rate.								
Septic Tank Waste Per gallon Per each 500 gallons or part thereof *CCF = 100 Cubic Feet (Approx. 748 g		.1717 -	0.1717		0.1697 -	0.1300	0.1366	0.1362	0.1267	0.1258 -	0.1146		- 48.57

\*CCF = 100 Cubic Feet (Approx. 748 gallons)

Note: Rates can be adjusted by the Commission.

## RATE SCHEDULE WASTEWATER FACILITY CHARGES LAST TEN FISCAL YEARS

		2021	 2020	 2019	 2018	 2017	2016	2015	 2014	 2013	20	
Residentia	I	\$ 1,905	\$ 1,905	\$ 1,895 \$		1,895						
Commerci	al/Industrial											
Volume	based facility charges:											
5/8"	Meter	\$ 1,905	\$ 1,905	\$ 1,895 \$		1,895						
3/4"	Meter	4,210	4,210	4,830	4,830	4,830	4,830	4,830	4,830	4,510		2,885
1"	Meter	7,410	7,410	8,170	8,170	8,170	8,170	8,170	8,170	7,630		5,370
1 1/2"	Meter	16,645	16,645	17,260	17,260	17,260	17,260	17,260	17,260	16,130		13,035
2"	Meter	30,505	30,505	30,510	30,510	30,510	29,420	29,420	29,420	27,490		24,420
3"	Meter	73,810	73,810	70,800	70,800	70,800	67,350	63,600	62,270	58,180		59,140
4"	Meter	138,445	138,445	128,660	128,660	128,660	122,400	115,580	106,060	99,110	1	10,860
6"	Meter	336,960	336,960	298,610	298,610	298,610	284,070	268,250	224,650	209,920	2	68,675
8"	Meter	634,710	634,710	542,680	542,680	542,680	516,260	487,510	382,670	357,580	5	03,350
10"	Meter	1,038,525	1,038,525	862,550	862,550	862,550	820,560	774,860	587,820	540,610	8	19,310
12"	Meter	1,554,120	1,554,120	1,259,520	1,259,520	1,259,520	1,198,210	1,131,490	-	-		-
14"	Meter	2,186,505	2,186,505	1,734,700	1,734,700	1,734,700	1,650,250	1,558,360	-	-		-
16"	Meter	2,940,135	2,940,135	2,289,010	2,289,010	2,289,010	2,177,580	2,056,330	-	-		-
Ū	n based facility charges: permitted pound)											
	nical Oxygen Demand (BOD) ss over 250 mg/liter		-	-	-	-	-	\$ 728	\$ 987	\$ 928		-
	spended Solids (TSS) ss over 250 mg/liter		-	-	-	-	-	424	624	587		-
	nosphorus (TP) ss over 6 mg/liter		-	-	-	-	-	8,420	5,846	5,502		-
	eldahl Nitrogen (TKN) ss over 35 mg/liter		-	-	-	-	-	3,812	1,313	1,235		-

Notes:

One charge per connection.

INTRODUCTORY SECTION

HRSD eliminated strength based facility charges effective 7/1/2015.

OTHER SUPPLEMENTAL

SECTION (UNAUDITED)

#### TREATMENT PLANT OPERATING SUMMARY **LAST TEN FISCAL YEARS**

(Average Quantity per Day)

			(Aver	age Quar	tity per C	Day)				
	2021	2020	2019	2018	2017	2016	2015	2014	2013	2012
Total	454.4	440.0								
Flow (MGD)	154.4	140.9	152.6	145.2	152.9	155.1	152.2	154.0	157.9	147.1
Influent (1,000 lbs.)	000.4	050.4								
BOD	269.1	252.4	281.9	285.1	288.2	282.5	286.0	288.6	274.4	254.6
TSS	215.4	226.2	211.4	215.8	215.9	228.8	198.6	204.7	198.1	200.3
TP	6.5	6.6	6.6	6.8	7.0	6.9	8.6	6.8	6.6	6.7
TKN	46.7	47.0	47.6	47.2	46.4	45.7	45.8	47.9	48.9	48.3
Effluent (1,000 lbs.)										
BOD	9.2	8.0	8.2	7.5	8.9	9.8	9.9	9.6	9.3	7.5
TSS	9.0	7.1	7.4	6.7	9.4	9.3	8.9	9.1	9.3	10.5
TP	0.7	0.7	8.0	0.7	0.9	0.9	1.0	1.1	1.0	1.1
TKN	8.1	8.4	8.5	7.3	7.7	8.0	9.8	11.2	12.0	10.1
Army Base Plant										
Flow (MGD)	11.1	10.4	11.1	10.0	9.5	9.6	9.9	10.7	11.8	10.2
Influent (1,000 lbs.)										
BOD	16.6	16.0	16.6	16.3	13.2	13.3	16.4	19.0	18.5	17.4
TSS	19.0	16.9	13.9	14.0	11.7	13.3	12.5	14.2	14.4	13.7
TP	0.4	0.4	0.4	0.4	0.3	0.3	0.4	0.4	0.4	0.4
TKN	3.2	3.3	3.3	3.1	2.7	2.7	2.9	3.5	3.7	3.5
Effluent (1,000 lbs.)										
BOD	0.6	0.2	0.3	0.2	0.3	0.3	8.0	0.8	0.8	0.9
TSS	0.9	0.3	0.4	0.3	0.4	0.5	0.6	0.8	0.9	0.8
TP	0.1	0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1
TKN	0.2	0.1	0.1	0.1	0.1	0.1	2.1	2.6	2.8	2.5
Atlantic Plant										
Flow (MGD)	27.4	24.5	28.1	26.1	28.2	27.2	30.9	25.7	26.7	29.0
Influent (1,000 lbs.)										
BOD	58.5	49.3	58.2	56.7	53.2	55.6	66.6	52.7	51.3	56.0
TSS	39.6	35.5	39.3	36.6	38.7	38.5	42.9	37.3	36.4	43.8
TP	1.4	1.3	1.4	1.3	1.4	1.4	1.5	1.3	1.3	1.5
TKN	11.4	10.7	11.9	11.2	11.0	10.9	11.4	10.4	10.5	11.7
Effluent (1,000 lbs.)										
BOD	2.9	3.0	2.5	2.4	2.3	2.7	3.0	2.2	2.6	2.0
TSS	2.5	1.5	1.6	1.6	1.9	1.9	2.4	2.0	1.9	1.8
Boat Harbor Plant										
Flow (MGD)	15.2	13.6	15.8	14.2	13.9	15.6	14.4	14.9	15.5	13.6
Influent (1,000 lbs.)										
BOD	20.0	18.4	20.6	19.2	17.4	18.3	20.0	19.2	19.3	19.9
TSS	16.1	16.0	18.0	16.6	15.7	18.1	16.3	16.7	16.0	16.9
TP	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.5
TKN	3.8	4.0	4.2	3.9	3.8	3.8	3.6	3.7	3.7	3.7
Effluent (1,000 lbs.)	0.5		7.4	0.0	0.0	0.0	5.0	0.7	0.7	5.7
BOD	1.0	0.6	0.9	0.6	0.6	1.0	0.7	0.7	0.7	0.6
TSS	1.0	0.8	1.0	0.0	0.7	0.9	0.6	0.8	0.8	0.0
TP	0.1	0.0	0.1	0.7	0.1	0.9	0.0	0.8	0.3	0.9
TKN	2.1	2.0	2.5	1.3	1.2	1.8				
I IVIN	۷.۱	2.0	2.5	1.3	1.2	1.0	2.2	2.4	2.9	3.0

FINANCIAL SECTION

## TREATMENT PLANT OPERATING SUMMARY LAST TEN FISCAL YEARS (Average Quantity per Day)

	2021	2020	2019	2018	2017	2016	2015	2014	2013	2012
Chesapeake-Elizabeth										
Flow (MGD)	16.8	17.4	17.6	18.7	18.0	16.3	19.1	18.4	15.2	16.3
Influent (1,000 lbs.)		20.4								
BOD	30.5	38.1	37.2	35.4	35.2	30.2	38.7	32.1	24.8	30.
TSS	23.0	24.6	26.8	26.6	26.1	22.9	26.6	25.1	21.0	22.6
TP	0.7	0.8	0.8	0.8	8.0	2.7	8.0	0.8	0.7	0.
TKN	6.1	6.9	6.8	6.6	6.4	5.1	6.7	6.4	5.4	6.
Effluent (1,000 lbs.)										
BOD	2.5	2.2	2.0	2.8	2.3	2.0	2.5	2.2	1.5	1.5
TSS	1.9	2.0	1.9	3.2	2.3	1.8	1.9	2.1	1.8	1.9
TP	0.1	0.2	0.1	0.2	0.1	0.1	0.1	0.2	0.1	0.:
TKN	3.9	4.4	4.1	4.5	4.1	3.6	4.5	4.2	3.2	3.
James River Plant										
Flow (MGD)	14.7	12.4	13.9	13.0	12.3	13.2	12.7	13.6	14.3	12.
Influent (1,000 lbs.)										
BOD	23.1	24.0	25.8	26.8	25.5	24.4	25.7	27.5	25.5	25.
TSS	18.1	17.4	18.7	19.3	17.4	17.8	18.0	19.4	19.2	19.
TP	0.6	0.5	0.6	0.6	0.5	0.5	0.5	0.6	0.6	0.0
TKN	5.0	4.7	4.7	4.8	4.3	4.2	4.0	4.2	4.4	4.
Effluent (1,000 lbs.)										
BOD	0.5	0.5	0.4	0.3	0.4	0.4	0.3	0.5	0.7	0.
TSS	0.5	0.4	0.4	0.4	0.4	0.5	0.4	0.6	8.0	0.
TP	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.
TKN	0.5	0.5	0.3	0.4	0.5	0.4	0.4	0.2	0.6	0.9
Nansemond Plant										
Flow (MGD)	17.4	15.9	16.9	17.5	18.8	18.5	16.6	16.9	17.1	16.
Influent (1,000 lbs.)										
BOD	33.8	32.5	33.0	31.9	40.7	35.8	28.5	29.0	27.0	23.
TSS	36.0	46.5	37.2	33.4	40.3	38.4	21.9	23.1	22.9	22.0
TP	0.9	1.0	1.0	1.2	1.5	1.5	1.1	1.1	1.1	1.0
TKN	6.8	6.9	6.7	7.1	7.4	7.0	5.6	5.8	5.9	6.0
Effluent (1,000 lbs.)										
BOD	0.6	0.6	0.7	0.7	8.0	0.7	8.0	0.9	0.6	0.0
TSS	8.0	0.6	8.0	0.7	8.0	0.9	0.9	1.1	0.8	0.9
TP	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.3
TKN	0.4	0.3	0.4	0.4	0.5	0.5	0.6	0.5	0.3	0.3
Virginia Initiative Plant										
Flow (MGD)	29.1	26.2	27.6	26.7	30.9	31.7	30.5	30.7	31.9	29.
Influent (1,000 lbs.)										
BOD	39.4	37.0	40.4	47.5	50.1	50.4	47.5	45.8	45.8	42.3
TSS	31.5	35.4	23.2	30.0	31.3	32.0	30.2	30.6	31.6	32.
TP	1.0	1.1	0.9	1.0	1.0	1.0	1.1	1.2	1.1	1.
TKN	6.7	7.1	6.8	7.0	7.3	7.4	7.1	7.4	7.5	7.
Effluent (1,000 lbs.)										
BOD	0.6	0.5	0.6	0.8	1.2	1.7	1.9	1.4	0.9	0.8
TSS	0.7	1.0	0.7	0.7	1.4	1.9	1.6	1.7	1.4	1.
TP	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.:
TKN	0.4	0.3	0.4	0.6	0.4	0.7	0.8	0.6	0.5	0.



#### TREATMENT PLANT OPERATING SUMMARY LAST TEN FISCAL YEARS

(Average Quantity per Day)

			(7.00)	age waai	itity pei L	Juy,				
	2021	2020	2019	2018	2017	2016	2015	2014	2013	2012
Williamsburg Plant										
Flow (MGD)	9.0	8.6	7.7	8.0	8.6	8.4	9.2	8.9	9.1	8.6
Influent (1,000 lbs.)										
BOD	32.5	33.4	32.6	36.1	33.2	34.7	40.4	37.7	33.5	37.5
TSS	18.0	21.2	24.1	19.1	27.9	16.2	19.9	16.8	16.7	19.0
TP	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.5	0.5	0.6
TKN	3.7	3.6	3.5	3.3	3.6	3.2	3.3	3.3	3.4	3.5
Effluent (1,000 lbs.)										
BOD	0.4	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3
TSS	0.6	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.6	0.3
TP	0.1	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1
TKN	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.2	0.2
York River Plant										
Flow (MGD)	13.9	13.2	12.6	12.6	12.7	12.6	13.2	13.3	11.2	10.8
Influent (1,000 lbs.)										
BOD	14.6	15.8	16.8	16.7	16.3	18.2	17.9	17.2	13.3	15.5
TSS	14.1	15.4	15.0	15.1	16.7	16.9	16.4	15.7	14.1	14.3
TP	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
TKN	3.8	3.7	3.6	3.6	3.5	3.5	3.6	3.5	3.2	3.6
Effluent (1,000 lbs.)										
BOD	0.2	0.5	0.3	0.3	0.4	0.4	0.4	0.5	0.2	0.5
TSS	0.1	0.1	0.2	0.2	0.1	0.2	0.1	0.2	0.1	0.3
TP	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1
TKN	0.4	0.3	0.2	0.2	0.3	0.3	0.3	0.4	0.1	0.1

**INTRODUCTORY** 

SECTION

## TEN LARGEST CUSTOMERS CURRENT YEAR AND NINE YEARS AGO

**REQUIRED** 

SUPPLEMENTARY INFORMATION (UNAUDITED)

(in thousands)			2021		201	2
Customer	<u>Type</u>	_	Amount	Percent	Amount	Percent
U.S. Navy - Norfolk Naval Base	Military Facility	\$	17,292	5.3%	\$ 4,823	2.5%
Smithfield Foods	Meat Processor		4,253	1.3%	3,389	1.8%
Anheuser - Busch, Inc.	Brewery		3,533	1.1%	5,499	2.8%
Huntington Ingalls Industries (formerly Northrop Grumman Newport News/ Newport News Shipbuilding and Drydock)	Shipbuilding		2,528	0.8%	-	-
Norfolk Redevelopment & Housing Authority	Housing Authority		2,152	0.7%	1,432	0.7%
Norfolk Naval Shipyard	Military Ship Repair		2,148	0.7%	-	-
U.S. Air Force - Langley Air Force Base	Military Facility		1,995	0.6%	975	0.5%
U.S. Navy - Little Creek Amphibious Base	Military Facility		1,934	0.6%	1,068	0.6%
Oceana Naval Air Station / Dam Neck	Military Facility		1,846	0.6%	-	-
U.S. Army - Fort Eustis	Military Facility		1,752	0.5%	1,004	0.5%
City of Norfolk	Municipality		-	-	1,899	1.0%
City of Virginia Beach	Municipality		-	-	873	0.5%
Sentara	Healthcare		-	-	620	0.3%
Total		\$	39,433	12.2%	\$ 21,582	11.2%



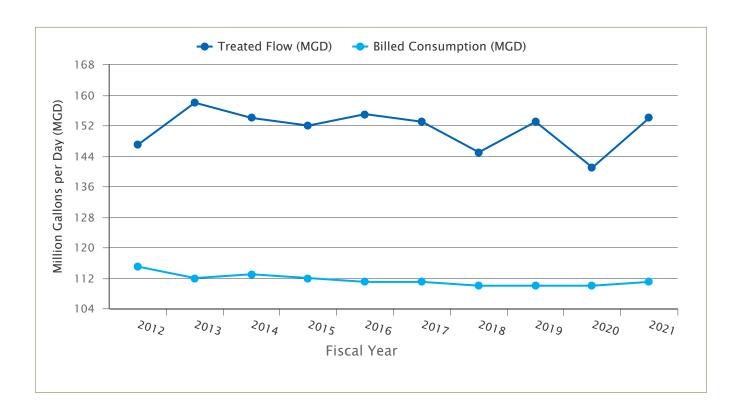
## TEN LARGEST EMPLOYERS CURRENT YEAR AND NINE YEARS AGO

			2021			2012	
<u>Employer</u>	<u>Туре</u>	Number of Employees	Rank	Percent of Regional Employment	Number of Employees	Rank	Percent of Regional Employment
Naval Station Norfolk	Military Facility	77,000	1	8.1%	67,000	1	7.1%
Joint Expeditionary Base Little Creek - Fort Story	Military Facility	25,000	2	2.6%	22,000	2	2.3%
Huntington Ingalls Industries	Shipbuilding and Repair	24,000	3	2.5%	19,000	3	2.0%
Sentara Healthcare	Health Care Network	22,000	4	2.3%	17,000	5	1.8%
Oceana Naval Air Station	Military Facility	19,000	5	2.0%	19,000	3	2.0%
Joint Base Langley-Eustis	Military Facility	19,000	5	2.0%	13,000	6	1.4%
Norfolk Naval Shipyard	Military Ship Repair	12,000	7	1.3%	11,000	7	1.2%
Naval Support Activity/ Naval Medical Center	Military Facility	11,000	8	1.2%	9,000	9	1.0%
Virginia Beach Public Schools	Public Schools	11,000	8	1.2%	10,000	8	1.1%
Riverside Health System	Health Care Network	8,000	10	0.8%	6,500	10	0.7%
Total		228,000		24.0%	193,500		20.6%

Sources:

Hampton Roads Economic Development Alliance Hampton Roads Statistical Digest Hampton Roads Business Confirmation with employers

### COMPARISON OF TREATED FLOW TO BILLED FLOW LAST TEN FISCAL YEARS



Year ended June 30,	Treated Flow (MGD)	Billed Consumption (MGD)
2012	147	115
2013	158	112
2014	154	113
2015	152	112
2016	155	111
2017	153	111
2018	145	110
2019	153	110
2020	141	110
2021	154	111



#### NUMBER OF EMPLOYEES BY IDENTIFIABLE ACTIVITY **LAST TEN FISCAL YEARS**

	2021	2020	2019	2018	2017	2016	2015	2014	2013	2012
General Management										
General Manager	1	1	1	2	3	3	3	3	3	4
Support Staff	1_	1	1	1	1	1	1	1	1	1
Total General Management	2	2	2	3	4	4	4	4	4	5
Communications										
Communications	1	1	1	1	-	-	-	-	-	-
Support Staff	2	2	2	1	-	-	-	-	-	
Total Communications <u>Talent Management</u>	3	3	3	2	-	-	-	-	-	
Human Resources	6	6	6	6	6	5	5	5	5	5
Safety	4	3	3	3	3	3	-	-	-	-
Training	4	3	3	2	2	2	2	2	2	2
Support Staff	3	4	4	4	4	4	3	3	3	3
Total Talent Management	17	16	16	15	15	14	10	10	10	10
<u>Finance</u>										
Accounting & Finance	15	12	12	11	10	10	10	10	10	10
Customer Care Center	71	77	77	77	77	77	69	69	68	69
Procurement	11	10	10	10	10	10	9	9	9	7
Support Staff	5	3	3	3	3	2	3	3	3	3
Total Finance	102	102	102	101	100	99	91	91	90	89
Information Technology										
Information Technology	48	48	43	48	47	45	39	35	35	33
Support Staff	2	2	2	2	1	1	1	1	1	2
Total Information Technology	50	50	45	50	48	46	40	36	36	35
<u>Operations</u>										
Army Base Treatment Plant	32	34	34	34	34	31	32	32	32	32
Atlantic Base Treatment Plant	37	35	35	35	35	32	33	33	33	32
Boat Harbor Treatment Plant	32	35	35	35	35	32	33	33	33	33
Chesapeake-Elizabeth Treatment Plant	31	32	32	32	32	31	32	32	32	32
Interceptor System Maintenance	121	119	119	118	117	115	120	120	120	121
James River Treatment Plant	24	22	22	22	22	20	21	21	21	21
Maintenance Shops	85	74	73	71	70	83	86	86	86	86
Nansemond Treatment Plant	35	32	32	32	32	30	31	31	31	30
Virginia Initiative Plant	32	34	34	33	33	30	31	31	31	31
Williamsburg Treatment Plant	28	29	29	29	29	28	29	29	29	31
York River Treatment Plant	23	24	24	24	24	22	23	23	23	23
Small Communities Division	23	23	23	23	23	21	17	17	17	17
Support Staff	23	23	23	23	23	24	25	25	25	24
Total - Operations	526	516	515	511	509	499	513	513	513	513
Engineering										
Design and Construction	31	31	30	26	25	25	21	19	19	17
Support Staff	13	13	13	13	14	14	14	14	14	14
Total Engineering	44	44	43	39	39	39	35	33	33	31
Water Quality								-		
Pretreatment & Pollution Prevention	27	28	27	27	26	26	25	24	24	24
Technical Services	36	34	31	31	29	28	25	23	21	21
Laboratory	50	47	47	46	45	42	40	38	38	38
Support Staff	5	5	5	5	6	6	6	6	6	3
Total Water Quality	118	114	110	109	106	102	96	91	89	86
<u>Total Employees</u>	862	847	836	830	821	803	789	778	775	769





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#### SUMMARY OF PRIMARY BONDED DEBT SERVICE June 30, 2021

(in thousands)							Su	bordinate	
			Sen	ior Bonds				Bonds	Total Debt
As of June 30,	Р	rincipal	lı	nterest	D	ebt Service	De	bt Service	Service
2022	\$	14,771	\$	9,778	\$	24,549	\$	86,498	\$ 111,047
2023		18,727		9,005		27,732		36,822	64,554
2024		19,539		8,110		27,649		38,723	66,372
2025		20,408		7,156		27,564		38,719	66,283
2026		20,649		6,159		26,808		38,593	65,40°
2027		7,842		5,476		13,318		47,677	60,995
2028		8,107		5,107		13,214		44,238	57,452
2029		8,383		4,725		13,108		44,181	57,289
2030		8,667		4,329		12,996		44,007	57,003
2031		8,501		3,918		12,419		45,003	57,422
2032		5,995		3,523		9,518		42,925	52,443
2033		6,225		3,165		9,390		41,035	50,425
2034		6,465		2,793		9,258		38,924	48,182
2035		6,715		2,406		9,121		38,268	47,389
2036		6,975		2,005		8,980		32,467	41,447
2037		7,245		1,588		8,833		32,591	41,424
2038		7,525		1,155		8,680		32,291	40,971
2039		7,815		705		8,520		17,271	25,79
2040		8,116		236		8,352		9,262	17,614
2041		-		-		-		9,114	9,114
2042		-		-		-		8,956	8,956
2043		-		-		-		8,899	8,899
2044		-		-		-		8,863	8,863
2045		-		-		-		3,568	3,568
2046		-		-		-		3,103	3,103
Total	\$	198,670	\$	81,339	\$	280,009	\$	791,998	\$ 1,072,007



#### **BUDGETARY COMPARISON SCHEDULE** June 30, 2021

(in thousands)					Variance			
					variance under			
	Rı	ıdget						
	_			Actual	Budget	Percent Variance		
OPERATING BUDGET EXPENSES								
General Management	\$ 46	6 \$	479	\$ 462	\$ 17	3.5%		
Communications	φ 40 47		495	402	92	18.6%		
Finance	15,06		15,363	13,885		9.6%		
Information Technology	16,71		17,968	14,891	3,077	17.1%		
Talent Management	2,57		2,615	2,367	•	9.5%		
Operations	110,54		120,865	104,832	16,033	13.3%		
Engineering	6,52	2	7,652	6,791	861	11.3%		
Water Quality	15,67	7	16,211	14,676	1,535	9.5%		
General	7,04	1	8,760	8,289	471	5.4%		
Debt Service	62,10	4	61,156	59,895	1,261	2.1%		
TOTAL	237,18	4	251,564	226,491	\$ 25,073	10.0%		
Transfer to CIP	94,95	3	109,339					
Transfer to Risk Management	26		260					
	\$ 332,39	7 \$	361,163					
Add:								
Unbudgeted Depreciation and Amortization				53,278				
Unbudgeted Bad Debt Expense				2,033				
Capital Improvement Program Items Expensed				14,825				
Less:								
Capitalized Assets				1,567				
Debt Service				59,895				
Capital Distributions to Localities				376				
TOTAL OPERATING EXPENSES				\$ 234,789				

REQUIRED SUPPLEMENTARY INFORMATION (INAUDITED) STATISTICAL SECTION (UNAUDITED)



### NOTES TO BUDGETARY COMPARISON SCHEDULE JUNE 30, 2021

#### **BUDGETARY HIGHLIGHTS**

HRSD's Commission adopts an Annual Operating Budget that contains the day-to-day operating expenses of the District. The Operating Budget as adopted for FY 2021 was \$237,183,888 and contains personnel costs, fringe benefits, material and supplies, electricity, chemicals, insurance, contractual services, debt service and other miscellaneous expenses. There were several modifications to the Operating Budget during the year to reflect changes in spending patterns. All adjustments to the Annual Budget were from encumbrances carried forward or from transfers within or among departments.

### NOTE 1 – BUDGETARY ACCOUNTING AND CONTROL Budget Preparation

HRSD prepares its Annual Budget under the provisions of its enabling legislation, used to establish rates, fees and other charges, and of Section 3.12 of the Master Trust Indenture, dated December 1, 1993, and the Trust Agreement, dated March 1, 2008. In accordance with those provisions, the following process is used to adopt the Annual Budget.

The process begins in late December with the issuance of the Annual Budget Instructions by the General Manager. Each department completes its Operating and Improvement Budgets by March 1 for the General Manager's review.

The HRSD Commission appoints a Finance Committee consisting of two Commissioners. The two Commissioners meet in early April to review the Budgets, which are presented by staff at the April Commission meeting. HRSD's Commission reviews these budgets at that meeting.

The final Annual Budget, which incorporates the Operating and Capital Budgets, is presented at the May Commission meeting for adoption. The Commission simultaneously adopts the budget and any resulting wastewater rate schedule. All rate adjustments must be publicly advertised four consecutive weeks before they can take effect.

The HRSD Commission approves any budget amendments during the ensuing year.

The 2008 Trust Agreement requires Debt Service Coverage of 1.20 times for senior and 1.00 times for total debt based on maximum annual debt service. The 2008 Subordinate Trust Agreement was amended in 2016 to account for Consent Decree expenses related to Locality wet weather improvements that HRSD will not own and requires total debt service coverage to be 1.2 times on an adjusted cash basis. The HRSD Commission has a policy of providing senior revenue and total revenue bonded debt service coverage ratios of not less than 1.5 and 1.4 times annual debt service on an adjusted cash basis, respectively.

#### **Budget Accounting**

The Annual Budget is prepared on a basis of accounting consistent with accounting principles generally accepted in the United States of America. No provision is provided, however, for non-cash items such as depreciation and bad debt expense. The FY 2021 Annual Budget consists of two parts: an operating budget that covers day-today operations and a capital budget that identifies all major capital project requirements over the next ten years. All operating budget amounts lapse at year-end. The Commission annually adopts only the first year of the capital budget. HRSD's Commission separately approves all contracts that are awarded under the capital budget.



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## SCHEDULE OF REVENUES, EXPENSES AND DEBT SERVICE FOR OPERATIONS - ACTUAL TO BUDGET FOR THE FISCAL YEAR ENDED JUNE 30, 2021

	,	Actual	Amended Budget	Variance Favorable/ (Unfavorable)	Budget Variance Percentage
OPERATING REVENUES					
Wastewater Treatment Charges	\$	325,817	\$ 320,035	\$ 5,782	2%
Miscellaneous		3,952	1,740	2,212	127%
TOTAL OPERATING REVENUES		329,769	321,775	7,994	1%
CURRENT EXPENDITURES					
General Management		462	479	17	4%
Communications		403	495	92	19%
Finance		13,885	15,363	1,478	10%
Information Technology		14,891	17,968	3,077	17%
Talent Management		2,367	2,615	248	9%
Operations		104,832	120,865	16,033	13%
Engineering		6,791	7,652	861	11%
Water Quality		14,676	16,211	1,535	9%
General		8,289	8,760	471	5%
TOTAL CURENT EXPENDITURES		166,596	190,408	23,812	13%
EXCESS OF OPERATING REVENUES					
OVER EXPENDITURES		163,173	131,367	31,806	24%
NON-OPERATING REVENUES					
Wastewater Facility Charge		7,379	6,160	1,219	20%
Interest Income		471	1,510	(1,039)	(69%)
Bond Interest Subsidy		2,167	2,292	(125)	(5%)
TOTAL NON-OPERATING REVENUES		10,017	9,962	55	1%
INCOME BEFORE CAPITAL CONTRIBUTIONS		173,190	141,329	31,861	23%
CAPITAL CONTRIBUTIONS					
Other Capital Contributions		2,317	-	2,317	100%
AMOUNT AVAILABLE FOR DEBT		175,507	141,329	34,178	24%
DEBT EXPENDITURES					
Principal & Interest		59,213	60,397	1,184	2%
Cost of Issuance	_	682	759	77	10%
TOTAL DEBT EXPENDITURES		59,895	61,156	1,261	2%



#### **OBJECTIVE CLASSIFICATION OF DEPARTMENTAL EXPENSES** FOR OPERATIONS - ACTUAL TO BUDGET FOR THE FISCAL YEAR ENDED JUNE 30, 2021

(in thousands)								
	General Management		Communications	Finance	Information Technology	Talent Management		Operations
Personal Services	\$	361	\$ 258	\$ 5,651			\$	34,864
Fringe Benefits		81	89	2,341	1,548	588		15,129
Materials & Supplies		2	23	101	801	62		8,567
Transportation		6	7	7	8	19		1,027
Utilities		-	-	266	1,235	-		10,981
Chemical Purchases		-	-	-	-	-		8,719
Contractual Services		10	18	5,446	5,459	18		17,514
Major Repairs		-	-	-	465	-		6,297
Capital Assets		-		-	430	-		1,137
Miscellaneous Expense		2	8	73	249	140		597
	\$	462	\$ 403	\$ 13,885	\$ 14,891	\$ 2,367	\$	104,832

#### OBJECTIVE CLASSIFICATION OF DEPARTMENTAL EXPENSES FOR OPERATIONS - ACTUAL TO BUDGET FOR THE FISCAL YEAR ENDED JUNE 30, 2021

(in thousands)									
	Eng	ineering	Wat	er Quality	General	Total	Percent of Total	FY2021 Amended Budget	Variance Favorable/ Jnfavorable)
Personal Services	\$	4,122	\$	8,009	\$ 749	\$ 60,250	27%	\$ 60,960	\$ 710
Fringe Benefits		1,478		3,302	(677)	23,879	11%	25,948	2,069
Materials & Supplies		54		1,828	(25)	11,413	5%	9,662	(1,751)
Transportation		14		12	-	1,100	0%	1,581	481
Utilities		-		1	464	12,947	6%	13,020	73
Chemical Purchases		-		-	-	8,719	4%	10,500	1,781
Contractual Services		1,061		1,149	6,603	37,278	16%	51,831	14,553
Major Repairs		-		(4)	-	6,758	3%	13,076	6,318
Capital Assets		-		-	-	1,567	1%	867	(700)
Miscellaneous Expense		62		379	1,175	2,685	1%	2,963	278
	\$	6,791	\$	14,676	\$ 8,289	\$ 166,596	74%	\$ 190,408	\$ 23,812
Debt Service						59,213	26%	60,397	1,184
Cost of Issuance						682	0%	759	77
Total Debt Expenditures						\$ 59,895	26%	\$ 61,156	\$ 1,261
Total Department and Deb	ot Expe	nditures				\$ 226,491	100%	\$ 251,564	\$ 25,073



## DEPARTMENT SUMMARY OF EXPENSES ACTUAL TO BUDGET FOR THE FISCAL YEAR ENDED JUNE 30, 2021

(in thousands)						Variance
				Amended		Favorable/
Canaral Managament		Actual		Budget	(1	Unfavorable)
General Management Personal Services	\$	361	\$	345	\$	(16)
Fringe Benefits	Ψ	81	Ψ	84	Ψ	(10)
Materials & Supplies		2		10		8
Transportation		6		7		1
Contractual Services		10		12		2
Miscellaneous Expense		2		21		19
'		462		479		17
Communications						
Personal Services	\$	258	\$	304	\$	46
Fringe Benefits		89		96		7
Materials & Supplies		23		50		27
Transportation		7		9		2
Contractual Services		18		20		2
Miscellaneous Expense		8		16		8
		403		495		92
Finance						
Personal Services	\$	5,651	\$	6,161	\$	510
Fringe Benefits		2,341		2,652		311
Materials & Supplies		101		72		(29)
Transportation		7		8		1
Utilities		266		299		33
Contractual Services		5,446 73		5,915 256		469 183
Miscellaneous Expense		13,885		15,363		1,478
Information Table class.				·		
Information Technology Personal Services	\$	4,696	\$	4,829	\$	133
Fringe Benefits	•	1,548	•	1,621	•	73
Materials & Supplies		801		1,054		253
Transportation		8		24		16
Utilities		1,235		1,383		148
Contractual Services		5,459		7,370		1,911
Major Repairs		465		1,340		875
Capital Assets		430		-		(430)
Miscellaneous Expense		249		347		98
		14,891		17,968		3,077
						(Continued)

## DEPARTMENT SUMMARY OF EXPENSES ACTUAL TO BUDGET FOR THE FISCAL YEAR ENDED JUNE 30, 2021

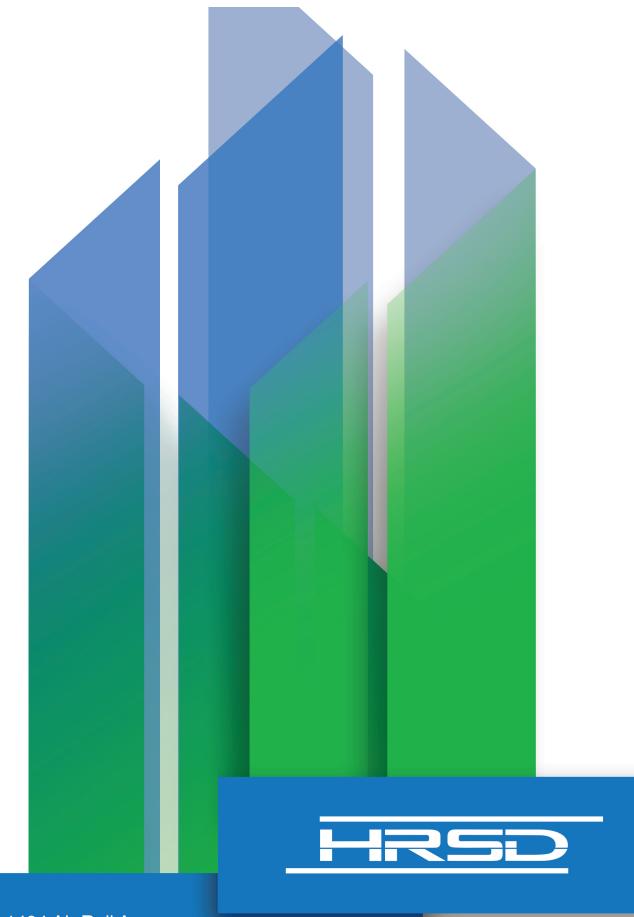
(in thousands)				Variance
			Amended	Favorable/
		Actual	 Budget	(Unfavorable)
Talent Management				
Personal Services	\$	1,540	\$ 1,577	\$ 37
Fringe Benefits		588	632	44
Materials & Supplies		62	59	(3)
Transportation		19	29	10
Contractual Services		18	69	51
Miscellaneous Expense		140	249	109
		2,367	 2,615	248
Operations				
Personal Services	\$	34,864	\$ 35,856	\$ 992
Fringe Benefits		15,129	15,789	660
Materials & Supplies		8,567	6,581	(1,986)
Transportation		1,027	1,441	414
Utilities		10,981	10,855	(126)
Chemical Purchases		8,719	10,500	1,781
Contractual Services		17,514	26,254	8,740
Major Repairs		6,297	11,623	5,326
Capital Assets		1,137	867	(270)
Miscellaneous Expense		597	 1,099	502
		104,832	120,865	16,033
ingineering				
Personal Services	\$	4,122	\$ 4,064	\$ (58)
Fringe Benefits		1,478	1,498	20
Materials & Supplies		54	42	(12)
Transportation		14	27	13
Contractual Services		1,061	1,809	748
Miscellaneous Expense		62	 212	150
		6,791	 7,652	861
Vater Quality				
Personal Services	\$	8,009	\$ 8,324	\$ 315
Fringe Benefits		3,302	3,347	45
Materials & Supplies		1,828	1,768	(60)
Transportation		12	36	24
Utilities		1	3	2
Contractual Services		1,149	1,978	829
Major Repairs		(4)	113	117
Miscellaneous Expense		379	642	263
		14,676	 16,211	1,535
General				
Personal Services	\$	749	\$ (500)	\$ (1,249)
Fringe Benefits		(677)	229	906
Materials & Supplies		(25)	26	51
Utilities		464	480	16
Contractual Services		6,603	8,404	1,801
Miscellaneous Expense	_	1,175	 121	 (1,054)
		8,289	 8,760	471
OTAL DEPARTMENTAL EXPENDITURES	\$	166,596	\$ 190,408	\$ 23,812



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