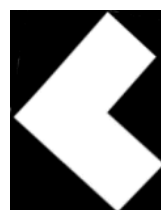


Roanoke River Service Authority
Annual Comprehensive Financial Report
Years Ended June 30, 2022 and 2021



***Creedle, Jones
& Associates, P.C.***
Certified Public Accountants

Roanoke River Service Authority

Table of Contents

Years Ended June 30, 2022 and 2021

	Pages
Independent Auditor's Report	i-iii
Management's Discussion and Analysis	1-3

FINANCIAL STATEMENTS

Exhibits

A	Statements of Net Position	4
B	Statements of Revenues, Expenses, and Changes in Net Position	5
C	Statements of Cash Flows	6
	Notes to the Financial Statements	7-39

REQUIRED SUPPLEMENTARY INFORMATION

Schedule of Changes in the Political Subdivision's Net Pension Liability and Related Ratios	40
Schedule of Employer Contributions	41
Notes to Required Supplementary Information VRS Pension	42
Schedule of Employer's Share of Net OPEB Liability Group Life Insurance Plan	43
Schedule of Employer Contributions – Group Life Insurance OPEB Plan	44
Notes to Required Supplementary Information – OPEB GLI	45-48
Schedule of Employer's Share of Net OPEB Liability Virginia Local Disability Program (VLDP) – Political Subdivision	49
Schedule of Employer Contributions for Virginia Local Disability Program	50
Notes to Required Supplementary Information – OPEB VLDP	51

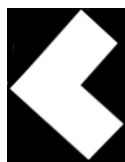
OTHER INFORMATION

Table

1	Revenue Bond Debt Service Coverage	52
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COMPLIANCE

Independent Auditor's Report on Internal Control over Financial Reporting and on Compliance and Other Matters Based on an Audit of Financial Statements Performed in Accordance with <i>Government Auditing Standards</i>	53-54
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INDEPENDENT AUDITOR'S REPORT

To the Board of Directors
Roanoke River Service Authority

Report on the Audit of the Financial Statements

Opinions

We have audited the accompanying financial statements of the business-type activities of the Roanoke River Service Authority, as of and for the years ended June 30, 2022 and 2021, and the related notes to the financial statements, which collectively comprise the Roanoke River Service Authority's basic financial statements as listed in the table of contents.

In our opinion, the financial statements referred to above present fairly, in all material respects, the respective financial position of the business-type activities of the Roanoke River Service Authority, as of June 30, 2022 and 2021, and the respective changes in financial position and, where applicable, cash flows thereof for the years then ended in accordance with accounting principles generally accepted in the United States of America.

Basis for Opinions

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 *Specifications for Audits of Authorities, Boards and Commissions*, issued by the Auditor of Public Accounts of the Commonwealth of Virginia. Our responsibilities under those standards and specifications are further described in the Auditor's Responsibilities for the Audit of the Financial Statements section of our report. We are required to be independent of the Roanoke River Service Authority and to meet our other ethical responsibilities, in accordance with the relevant ethical requirements relating to our audit. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinions.

Change in Accounting Principle

As described in Note 2 to the financial statements, in 2022, the Authority adopted new accounting guidance, GASB Statement No. 87, Leases. Our opinion is not modified with respect to this matter.

Responsibilities of Management for the Financial Statements

Management is responsible for the preparation and fair presentation of the financial statements in accordance with accounting principles generally accepted in the United States of America, and for 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.

In preparing the financial statements, management is required to evaluate whether there are conditions or events, considered in the aggregate, that raise substantial doubt about the Roanoke River Service Authority's ability to continue as a going concern for twelve months beyond the financial statement date, including any currently known information that may raise substantial doubt shortly thereafter.

Auditor's Responsibilities for the Audit of the Financial Statements

Our objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes our opinions. Reasonable assurance is a high level of assurance but is not absolute assurance and therefore is not a guarantee that an audit conducted in accordance with generally accepted auditing standards and *Government Auditing Standards* will always detect a material misstatement when it exists. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control. Misstatements are considered material if there is a substantial likelihood that, individually or in the aggregate, they would influence the judgment made by a reasonable user based on the financial statements.

In performing an audit in accordance with generally accepted auditing standards and *Government Auditing Standards*, we:

- Exercise professional judgment and maintain professional skepticism throughout the audit.
- Identify and assess the risks of material misstatement of the financial statements, whether due to fraud or error, and design and perform audit procedures responsive to those risks. Such procedures include examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements.
- Obtain an understanding of internal control relevant to the audit 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 Roanoke River Service Authority's internal control. Accordingly, no such opinion is expressed.
- Evaluate the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluate the overall presentation of the financial statements.
- Conclude whether, in our judgment, there are conditions or events, considered in the aggregate, that raise substantial doubt about the Roanoke River Service Authority's ability to continue as a going concern for a reasonable period of time.

We are required to communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit, significant audit findings, and certain internal control-related matters that we identified during the audit.

Required Supplementary Information

Accounting principles generally accepted in the United States of America require that the management's discussion and analysis and schedules related to pension and OPEB on pages 1-3 and 40-51 be presented to supplement the basic financial statements. Such information is the responsibility of management and, 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.

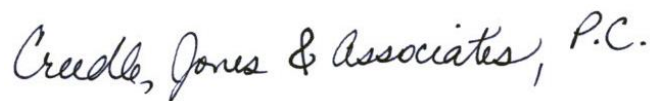
Other Information

Management is responsible for the other information included in the annual report. The other information comprises the statistical section but does not include the basic financial statements and our auditor's report thereon. Our opinions on the basic financial statements do not cover the other information, and we do not express an opinion or any form of assurance thereon.

In connection with our audit of the basic financial statements, our responsibility is to read the other information and consider whether a material inconsistency exists between the other information and the basic financial statements, or the other information otherwise appears to be materially misstated. If, based on the work performed, we conclude that an uncorrected material misstatement of the other information exists, we are required to describe it in our report.

Other Reporting Required by Government Auditing Standards

In accordance with *Government Auditing Standards*, we have also issued our report dated August 31, 2022, on our consideration of the Roanoke River Service Authority's internal control over financial reporting and on our tests of its compliance with certain provisions of laws, regulations, contracts, and grant agreements and other matters. The purpose of that report is solely to describe the scope of our testing of internal control over financial reporting and compliance and the results of that testing, and not to provide an opinion on the effectiveness of the Roanoke River Service Authority'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 Roanoke River Service Authority's internal control over financial reporting and compliance.



Creedle, Jones & Associates, P.C.
Certified Public Accountants

South Hill, Virginia
August 31, 2022

Roanoke River Service Authority

Management's Discussion and Analysis

As of June 30, 2022 and 2021

Our discussion and analysis of the Roanoke River Service Authority's financial performance provides an overview of the Authority's financial activities for the fiscal years ended June 30, 2022 and 2021. Please read this information in conjunction with Roanoke River Service Authority's basic financial statements.

OVERVIEW OF THE FINANCIAL STATEMENTS

The Roanoke River Service Authority (the "Authority") presents three basic financial statements. These are: (1) Statements of Net Position; (2) Statements of Revenues, Expenses, and Changes in Net Position; and (3) Statements of Cash Flows.

Our financial position is measured in terms of resources (assets) we own and obligations (liabilities) we owe on a given date. This information is reported on the Statements of Net Position, which reflects the Authority's assets in relation to its debt to creditors. The excess of our assets over liabilities is our equity, or net position.

Information regarding the results of our operation during the years is reported in the Statements of Revenues, Expenses, and Changes in Net Position. These statements show how much our overall net position increased or decreased during the years as a result of our operations and for other reasons.

Our Statements of Cash Flows disclose the flow of cash resources into and out of the Authority during the years and how we applied those funds.

FINANCIAL SUMMARY

Financial Position

A summary of the Authority's Statements of Net Position for 2022 and 2021 is presented below:

	<u>2022</u>	<u>2021</u>
Assets	\$ 9,744,449	\$ 9,865,580
Deferred Outflows of Resources	<u>104,074</u>	<u>64,726</u>
Total Assets and Deferred Outflows of Resources	<u>\$ 9,848,523</u>	<u>\$ 9,930,306</u>
Liabilities	\$ 5,445,379	\$ 5,650,642
Deferred Inflows of Resources	<u>146,754</u>	<u>68,178</u>
Net Position		
Net investment in capital assets	2,967,320	2,977,147
Restricted	-	78,702
Unrestricted	<u>1,289,070</u>	<u>1,155,637</u>
Total Net Position	<u>4,256,390</u>	<u>4,211,486</u>
Total Liabilities, Deferred Inflows of Resources, and Net Position	<u>\$ 9,848,523</u>	<u>\$ 9,930,306</u>

Total net position increased by \$44,904 for the Authority in 2022 which is an increase of 1.07% from last year.

Change in Net Position

A summary of the Authority's Statements of Revenues, Expenses, and Changes in Net Position for 2022 and 2021 is presented below:

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

	<u>2022</u>	<u>2021</u>
Operating Revenues	\$ 2,132,590	\$ 2,035,115
Operating Expenses	<u>(1,847,205)</u>	<u>(1,642,449)</u>
Net Operating Income	285,385	392,666
Non-Operating Revenue	415	531
Non-Operating Expense	<u>(240,896)</u>	<u>(250,585)</u>
Changes in Net Position	<u>\$ 44,904</u>	<u>\$ 142,612</u>

During the year, the Authority's net operating income was \$285,385. The Authority had non-operating revenue in the form of interest income, which amounted to \$415. Non-operating expense in the form of interest expense totaled \$240,896. Operating expenses of \$1,847,205 included all expenses necessary to operate the water plant, predominantly salaries, utilities, chemicals, and depreciation.

Net position increased \$44,904 in 2022 as compared to an increase of \$142,612 in 2021.

Cash Flows

A summary of the Authority's Statements of Cash Flows for 2022 and 2021 is presented below:

Condensed Statements of Cash Flows

	<u>2022</u>	<u>2021</u>
Cash Provided by (Used in)		
Operating activities	\$ 518,087	\$ 565,418
Capital and related financing activities	<u>(514,980)</u>	<u>(1,028,225)</u>
Investing activities	<u>415</u>	<u>531</u>
Net Increase (Decrease) in Cash	<u>\$ 3,522</u>	<u>\$ (462,276)</u>

Cash flows from operating activities consist of receipts from customers and grants less operating expenses, creating a positive cash flow of \$518,087.

Cash flows from capital and related financing activities net to a negative cash flow of \$514,980 due to purchases of capital assets and payments on long-term debt.

Cash flows from investing activities consist of interest income creating a positive cash flow of \$415.

During fiscal year 2022, there was an increase of \$3,522 in cash as compared to a decrease of \$462,276 in 2021.

Capital Assets

As of June 30, 2022, the Authority's net capital assets total \$8,362,646, a decrease of \$215,361 or 2.51% over the previous fiscal year.

Change in Capital Assets

	Balance July 1, 2021	Net Additions and Deletions	Balance June 30, 2022
Land and improvements	\$ 268,902	\$ -	\$ 268,902
Vehicles and equipment	192,264	32,891	225,155
Infrastructure - water system	12,470,340	35,659	12,505,999
Total Capital Assets	12,931,506	68,550	13,000,056
Less: Accumulated depreciation	(4,353,499)	(283,911)	(4,637,410)
Total Net Capital Assets	<u>\$ 8,578,007</u>	<u>\$ (215,361)</u>	<u>\$ 8,362,646</u>

Long-Term Debt

As of June 30, 2022, the Authority's long-term obligations total \$5,395,326.

Change in Long-Term Debt

	Balance July 1, 2021	Net Additions and Deletions	Balance June 30, 2022
Virginia Resources Authority - Series 2000A and 2000B	\$ 63,714	\$ (6,707)	\$ 57,007
Touchstone Bank	328,245	(37,075)	291,170
Rural Development	5,208,901	(161,752)	5,047,149
Total Outstanding Debt	<u>\$ 5,600,860</u>	<u>\$ (205,534)</u>	<u>\$ 5,395,326</u>

REQUESTS FOR INFORMATION

This financial report is designed to provide our citizens, taxpayers, customers, investors, and creditors with a general overview of the Authority's finances and to demonstrate the Authority's accountability for the money it receives. Questions concerning this report or requests for additional information should be directed to Paul Malone, Executive Director, Roanoke River Service Authority, 5419 Highway One, Bracey, Virginia 23919, telephone 434-689-7772.

FINANCIAL STATEMENTS

Roanoke River Service Authority

Statements of Net Position

June 30, 2022 and 2021

	<u>2022</u>	<u>2021</u>
Assets and Deferred Outflows of Resources		
Assets		
Current Assets		
Cash - operations	\$ 165,371	\$ 219,448
Cash - money market	649,751	598,807
Cash - CCB	101,364	101,162
Cash - Microsoft	85,155	78,702
Accounts receivable	<u>232,191</u>	<u>192,553</u>
Total Current Assets	1,233,832	1,190,672
Capital Assets		
Land and improvements	268,902	268,902
Vehicles and equipment	225,155	192,264
Infrastructure - water system	12,505,999	12,470,340
Less: Accumulated depreciation	<u>(4,637,410)</u>	<u>(4,353,499)</u>
Net Capital Assets	8,362,646	8,578,007
Other Assets		
Net pension asset	147,478	96,901
Net OPEB asset	<u>493</u>	<u>-</u>
Total Other Assets	147,971	96,901
Total Assets	9,744,449	9,865,580
Deferred Outflows of Resources		
OPEB	13,302	15,252
Pension	<u>90,772</u>	<u>49,474</u>
Total Deferred Outflows of Resources	104,074	64,726
Total Assets and Deferred Outflows of Resources	<u>\$ 9,848,523</u>	<u>\$ 9,930,306</u>
Liabilities, Deferred Inflows of Resources, and Net Position		
Liabilities		
Current Liabilities		
Accounts payable	\$ 25,567	\$ 13,663
Accrued payroll liabilities	1,680	1,231
Customer deposits	1,150	1,240
Notes payable - current portion	<u>213,909</u>	<u>205,374</u>
Total Current Liabilities	242,306	221,508
Long-Term Liabilities		
Net OPEB liabilities	21,656	33,648
Notes payable - less current portion	<u>5,181,417</u>	<u>5,395,486</u>
Total Long-Term Liabilities	5,203,073	5,429,134
Total Liabilities	5,445,379	5,650,642
Deferred Inflows of Resources		
OPEB	11,045	1,537
Pension	<u>135,709</u>	<u>66,641</u>
Total Deferred Inflows of Resources	146,754	68,178
Net Position		
Net investment in capital assets	2,967,320	2,977,147
Restricted - Microsoft Tank Farm	-	78,702
Unrestricted	<u>1,289,070</u>	<u>1,155,637</u>
Total Net Position	4,256,390	4,211,486
Total Liabilities, Deferred Inflows of Resources, and Net Position	<u>\$ 9,848,523</u>	<u>\$ 9,930,306</u>

The accompanying notes to the financial statements are an integral part of this statement.

Roanoke River Service Authority

Statements of Revenues, Expenses, and Changes in Net Position

Years Ended June 30, 2022 and 2021

		<u>2022</u>		<u>2021</u>
	<u>Operating Fund</u>	<u>Tank Farm (all sites)</u>	<u>Total Operations</u>	<u>Memorandum (Totals Only)</u>
Operating Revenues				
Charges for services	\$ 1,868,252	\$ -	\$ 1,868,252	\$ 1,871,826
Contribution from counties	27,500	-	27,500	27,500
Wireless communication fees	42,085	-	42,085	40,994
Tank farm annual payments and shortfalls	-	188,493	188,493	84,543
Miscellaneous	-	-	-	172
Connection fees	6,260	-	6,260	10,080
Total Operating Revenues	1,944,097	188,493	2,132,590	2,035,115
Operating Expenses				
Depreciation	283,911	-	283,911	268,854
Salaries	412,141	20,075	432,216	396,795
Electrical services	175,985	3,415	179,400	181,327
Chemicals	267,240	2,147	269,387	226,919
Professional fees	11,088	2,500	13,588	13,558
Payroll taxes	32,345	-	32,345	31,026
Employee fringe benefits	57,888	-	57,888	53,272
Repairs and maintenance	302,198	49,022	351,220	310,365
Insurance	37,818	13,437	51,255	31,783
Engineering	300	-	300	10,045
Lab supplies and testing	36,305	-	36,305	34,852
Miscellaneous other expenses	23,337	19,596	42,933	17,680
Safety	15,800	-	15,800	11,064
Distribution expansion	10,863	-	10,863	6,000
Office supplies	9,544	-	9,544	8,445
Plant heating	2,990	-	2,990	2,683
Fuel	36,252	692	36,944	17,118
Uniforms	1,461	-	1,461	1,714
Cellular and mobile communications	13,778	-	13,778	11,952
Telephone	3,177	-	3,177	3,888
Postage and delivery	987	-	987	1,147
Raw water withdrawal	913	-	913	1,962
Total Operating Expenses	1,736,321	110,884	1,847,205	1,642,449
Operating Income	207,776	77,609	285,385	392,666
Non-Operating Revenues (Expenses)				
Interest income	415	-	415	531
Interest expense	(240,896)	-	(240,896)	(250,585)
Net Non-Operating Revenues (Expenses)	(240,481)	-	(240,481)	(250,054)
Income (Loss) Before Transfers	(32,705)	77,609	44,904	142,612
Transfers Between Funds				
Transfers between funds	71,156	(71,156)	-	-
Total Transfers Between Funds	71,156	(71,156)	-	-
Change in Net Position	38,451	6,453	44,904	142,612
Total Net Position - Beginning of Year	4,132,784	78,702	4,211,486	4,068,874
Total Net Position - End of Year	\$ 4,171,235	\$ 85,155	\$ 4,256,390	\$ 4,211,486

The accompanying notes to the financial statements are an integral part of this statement.

Roanoke River Service Authority

Statements of Cash Flows

Years Ended June 30, 2022 and 2021

	<u>2022</u>	<u>2021</u>
Cash Flows from Operating Activities		
Receipts from customers	\$ 1,834,784	\$ 1,834,774
Microsoft reimbursements	188,493	84,543
Other receipts	42,085	41,166
Receipts from counties	27,500	27,500
Payments for salaries and related personnel costs	(545,834)	(508,791)
Payments to suppliers	<u>(1,028,941)</u>	<u>(913,774)</u>
Net Cash Provided by Operating Activities	518,087	565,418
Cash Flows from Capital and Related Financing Activities		
Purchases of capital assets	(68,550)	(524,527)
Payments on long-term debt	(205,534)	(253,113)
Interest expense paid on capital debt	<u>(240,896)</u>	<u>(250,585)</u>
Net Cash Used in Capital and Related Financing Activities	(514,980)	(1,028,225)
Cash Flows from Investing Activities		
Interest income	<u>415</u>	<u>531</u>
Net Cash Provided by Investing Activities	<u>415</u>	<u>531</u>
Net Increase (Decrease) in Cash and Cash Equivalents	3,522	(462,276)
Cash and Cash Equivalents - Beginning of Year	<u>998,119</u>	<u>1,460,395</u>
Cash and Cash Equivalents - End of Year	<u>\$ 1,001,641</u>	<u>\$ 998,119</u>
Reconciliation of Operating Income to Net Cash Provided by Operating Activities		
Operating income	\$ 285,385	\$ 392,666
<i>Adjustments to reconcile operating income to net cash provided by operating activities</i>		
Depreciation expense	283,911	268,854
<i>Changes in current assets and liabilities</i>		
Receivables, net	(39,638)	(47,132)
Accounts payable	11,903	(21,272)
Accrued payroll liabilities	450	389
Customer deposits	(90)	-
OPEB related deferred inflows of resources	9,508	(613)
Pension related deferred inflows of resources	69,068	10,684
OPEB related deferred outflows of resources	1,950	(6,976)
Pension related deferred outflows of resources	(41,298)	(19,983)
Net OPEB	(12,485)	(18,858)
Net VRS pension liability (asset)	<u>(50,577)</u>	<u>149</u>
Net Cash Provided by Operating Activities	<u>\$ 518,087</u>	<u>\$ 557,908</u>

The accompanying notes to the financial statements are an integral part of this statement.

Roanoke River Service Authority

Notes to the Financial Statements

Years Ended June 30, 2022 and 2021

1 Organization, Description of the Entity, and Its Activities

The Roanoke River Service Authority (the "Authority") was created under the authority of the Virginia Water and Waste Authorities Act, Section 15.2-5100 et seq. of the Code of Virginia, as amended, by the Towns of Boynton, LaCrosse, Brodnax, and South Hill and the Counties of Mecklenburg and Brunswick. The purpose for which the Authority was created was for the design, construction, and operation of a water distribution system including a water treatment plant to serve the citizens and communities of Mecklenburg and Brunswick Counties and to exercise such other activities as may be permitted by law.

The Authority has a Board of Directors made up of persons appointed by each member locality for a term of three years. The Board operates independently of the localities.

2 Significant Accounting Policies

Financial Statement Presentation

The financial statements of the Authority have been prepared in conformity with the specifications promulgated by the Auditor of Public Accounts (APA) of the Commonwealth of Virginia, and the accounting principles generally accepted in the United States as specified by the Governmental Accounting Standards Board.

Basis of Accounting

The financial statements have been prepared on the accrual basis of accounting under which revenues are recorded when earned, and expenses are recorded at the time liabilities are incurred through the receipt of goods and services. All supplies and materials are expensed when purchased and fixed assets are capitalized and depreciated over their estimated useful lives.

Property and Equipment

Depreciation is provided principally on the straight-line method over the estimated useful lives of the assets.

Use of Estimates

The preparation of financial statements in conformity with accounting principles generally accepted in the United States of America requires management to make estimates and assumptions that affect certain reported amounts and disclosures. Accordingly, actual results could differ from those estimates.

Pensions

The Virginia Retirement System (VRS) Political Subdivision Retirement Plan is a multi-employer, agent plan. For purposes of measuring the net pension liability, deferred outflows of resources and deferred inflows of resources related to pensions, and pension expense, information about the fiduciary net position of the Political Subdivision's Retirement Plan and the additions to/deductions from the Political Subdivision's Retirement Plan's net fiduciary position have been determined on the same basis as they were reported by the Virginia Retirement System (VRS). For this purpose, benefit payments (including refunds of employee contributions) are recognized when due and payable in accordance with the benefit terms. Investments are reported at fair value.

Other Post-Employment Benefits - Group Life Insurance

The Virginia Retirement System (VRS) Group Life Insurance Program is a multiple employer, cost-sharing plan. It provides coverage to state employees, teachers, and employees of participating political subdivisions. The Group Life Insurance 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 Group Life Insurance 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 Group Life Insurance Program OPEB liability, deferred outflows of resources and deferred inflows of resources related to the Group Life Insurance Program OPEB, and Group Life Insurance Program OPEB expense, information about the fiduciary net position of the VRS Group Life Insurance program OPEB and the additions to/deductions from the VRS Group Life Insurance 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.

Other Post-Employment Benefits - Political Subdivision Employee Virginia Local Disability Program

The Virginia Retirement System (VRS) Political Subdivision Employee Virginia Local Disability Program is a multiple-employer, cost-sharing plan. For purposes of measuring the net Political Subdivision Employee Virginia Local Disability Program OPEB liability, deferred outflows of resources and deferred inflows of resources related to the Political Subdivision Employee Virginia Local Disability Program OPEB, and the Political Subdivision Employee Virginia Local Disability Program OPEB expense, information about the fiduciary net position of the Virginia Retirement System (VRS) Political Subdivision Employee Virginia Local Disability Program; and the additions to/deductions from the VRS Political Subdivision Employee Virginia Local Disability Program's net fiduciary 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.

Adoption of New GASB Statements

The Authority adopted the following GASB statements during the year ended June 30, 2022:

Statement No. 87, Leases increases the usefulness of the financial statements by requiring recognition of certain lease assets and liabilities for leases that previously were classified as operating leases and recognized as inflows of resources or outflows of resources based on the payment provisions of the contract. It establishes a single model for lease accounting based on the foundational principle that leases are financings of the right to use an underlying asset. A lessee will be required to recognize a lease liability and an intangible right-to-use a lease asset, and a lessor will be required to recognize a lease receivable and a deferred inflow of resources, thereby enhancing the relevance and consistency of information about leasing activities. The requirements of this statement are effective for the fiscal year ending June 30, 2022 for the Authority.

GASB Statement No. 92, Omnibus 2020 enhances comparability in accounting and financial reporting and improves the consistency of authoritative literature by addressing practice issues that have been identified during implementation and application of certain GASB Statements. This Statement addresses a variety of topics and includes specific provisions about the following: (1) The effective date of GASB Statement No. 87, Leases, and Implementation Guide No. 2019-3, Leases, for interim financial reports. (2) Reporting of intra-entity transfers of assets between a primary government employer and a

component unit defined benefit pension plan or defined benefit other postemployment benefit (OPEB) plan. (3) The applicability of GASB Statements No. 73, Accounting and Financial Reporting for Pensions and Related Assets That Are Not within the Scope of GASB Statement 68, and Amendments to Certain Provisions of GASB Statements 67 and 68, as amended, and No. 74, Financial Reporting for Postemployment Benefit Plans Other Than Pension Plans, as amended, to reporting assets accumulated for postemployment benefits. (4) The applicability of certain requirements of GASB Statement No. 84, Fiduciary Activities, to postemployment benefit arrangements. (5) Measurement of liabilities (and assets, if any) related to asset retirement obligations (AROs) in a government acquisition. (6) Reporting by public entity risk pools for amounts that are recoverable from reinsurers or excess insurers. (7) Reference to nonrecurring fair value measurements of assets or liabilities in authoritative literature. (8) Terminology used to refer to derivative instruments. The requirements of this statement are effective for the fiscal year ending June 30, 2022 for the Authority.

Statement No. 93, Replacement of Interbank Offered Rates, establishes accounting and financial reporting requirements related to the replacement of Interbank Offered Rates (IBORs) in hedging derivative instruments and leases. It also identifies appropriate benchmark interest rates for hedging derivative instruments. The requirements of this Statement, except for removal of London Interbank Offered Rate (LIBOR) as an appropriate benchmark interest rate and the requirements related to lease modifications, are effective for reporting periods beginning after June 15, 2020. The removal of LIBOR as an appropriate benchmark interest rate is effective for reporting periods ending after December 31, 2021. All requirements related to lease modifications in this Statement are effective for reporting periods beginning after June 15, 2021. The requirements of this statement are effective for the fiscal year ending June 30, 2022 for the Authority.

GASB Statement No. 98, *The Annual Comprehensive Financial Report*, This Statement establishes the term annual comprehensive financial report and its acronym ACFR. That new term and acronym replace instances of comprehensive annual financial report and its acronym in generally accepted accounting principles for state and local governments. The requirements of this statement are effective for the fiscal year ending June 30, 2022 for the Authority.

3 Cash Equivalents

Deposits

All cash of the Authority is maintained in accounts collateralized in accordance with the Virginia Security for Public Deposits Act, Section 2.2-4400 et seq. of the Code of Virginia or covered by Federal Depository Insurance.

4 Amount of Allowance for Uncollectible Accounts

The Authority calculates its allowance for uncollectible accounts using historical collection data and, in certain cases, specific account analysis. Management estimates no allowance was required for the year ended June 30, 2022.

5 Capital Assets

The schedule below shows the breakdown of capital assets by category at June 30, 2022:

	<u>Balance July 1, 2021</u>	<u>Acquired (Increased)</u>	<u>Disposed (Decreased)</u>	<u>Balance June 30, 2022</u>
Land and improvements	\$ 268,902	\$ -	\$ -	\$ 268,902
Vehicles and equipment	192,264	32,891	-	225,155
Infrastructure - water system	<u>12,470,340</u>	<u>35,659</u>	<u>-</u>	<u>12,505,999</u>
Total Capital Assets	12,931,506	68,550	-	13,000,056
Less: Accumulated depreciation	<u>(4,353,499)</u>	<u>(283,911)</u>	<u>-</u>	<u>(4,637,410)</u>
Net Capital Assets	<u>\$ 8,578,007</u>	<u>\$ (215,361)</u>	<u>\$ -</u>	<u>\$ 8,362,646</u>

Capital assets of the Authority are stated at cost. Depreciation of the cost of capital assets is provided on a straight-line basis over their estimated useful lives as follows:

Vehicles and equipment	5 to 10 years
Infrastructure - water system	10 to 50 years

6 Pension Plan

Plan Description

All full-time, salaried permanent employees of the Political Subdivision are automatically covered by a VRS Retirement Plan upon employment. This plan is administered by the Virginia Retirement System (the System) along with plans for other employer groups in the Commonwealth of Virginia. 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.

The System administers three different benefit structures for covered employees – Plan 1, Plan 2, and Hybrid. Each of these benefit structures has different eligibility criteria. The specific information for each plan and the eligibility for covered groups within each plan are set out in the table below:

RETIREMENT PLAN PROVISIONS

PLAN 1

About Plan 1

Plan 1 is a defined benefit plan. The retirement benefit is based on a member's age, service credit, and average final compensation at retirement using a formula.

Eligible Members

Employees are in Plan 1 if their membership date is before July 1, 2010, and they were vested as of January 1, 2013, and they have not taken a refund.

Hybrid Opt-In Election

VRS non-hazardous duty covered Plan 1 members were allowed to make an irrevocable decision to opt into the Hybrid Retirement Plan during a special election window held January 1 through April 30, 2014.

The Hybrid Retirement Plan's effective date for eligible Plan 1 members who opted in was July 1, 2014.

If eligible deferred members returned to work during the election window, they were also eligible to opt into the Hybrid Retirement Plan.

Members who were eligible for an optional retirement plan (ORP) and had prior service under Plan 1 were not eligible to elect the Hybrid Retirement Plan and remain as Plan 1 or ORP.

PLAN 2

About Plan 2

Same as Plan 1.

Eligible Members

Employees are in Plan 2 if their membership date is on or after July 1, 2010, or their membership date is before July 1, 2010, and they were not vested as of January 1, 2013.

Hybrid Opt-In Election

Eligible Plan 2 members were allowed to make an irrevocable decision to opt into the Hybrid Retirement Plan during a special election window held January 1 through April 30, 2014.

The Hybrid Retirement Plan's effective date for eligible Plan 2 members who opted in was July 1, 2014.

If eligible deferred members returned to work during the election window, they were also eligible to opt into the Hybrid Retirement Plan.

Members who were eligible for an optional retirement plan (ORP) and have prior service under Plan 2 were not eligible to elect the Hybrid Retirement Plan and remain as Plan 2 or ORP.

HYBRID RETIREMENT PLAN

About the Hybrid Retirement Plan

The Hybrid Retirement Plan combines the features of a defined benefit plan and a defined contribution plan.

- The defined benefit is based on a member's age, service credit, and average final compensation at retirement using a formula.
- The benefit from the defined contribution component of the plan depends on the member and employer contributions made to the plan and the investment performance of those contributions.
- In addition to the monthly benefit payment payable from the defined benefit plan at retirement, a member may start receiving distributions from the balance in the defined contribution account, reflecting the contributions, investment gains or losses, and any required fees.

Eligible Members

Employees are in the Hybrid Retirement Plan if their membership date is on or after January 1, 2014. This includes:

- Political subdivision employees*
- Members in Plan 1 or Plan 2 who elected to opt into the plan during the election window held January 1 - April 30, 2014; the plan's effective date for opt-in members was July 1, 2014

**Non-Eligible Members*

Some employees are not eligible to participate in the Hybrid Retirement Plan. They include:

- Political subdivision employees who are covered by enhanced benefits for hazardous duty employees

Those employees eligible for an optional retirement plan (ORP) must elect the ORP plan or the Hybrid Retirement Plan. If these members have prior service under Plan 1 or Plan 2, they are not eligible to elect the Hybrid Retirement Plan and must select Plan 1 or Plan 2 (as applicable) or ORP.

PLAN 1

Retirement Contributions

Employees contribute 5% of their compensation each month to their member contribution account through a pre-tax salary reduction. Member contributions are tax-deferred until they are withdrawn as part of a retirement benefit or as a refund. The employer makes a separate actuarially determined contribution to VRS for all covered employees. VRS invests both member and employer contributions to provide funding for the future benefit payment.

Service Credit

Service credit includes active service. Members earn service credit for each month they are employed in a covered position. It also may include credit for prior service the member has purchased or additional service credit the member was granted. A member's total service credit is one of the factors used to determine their eligibility for retirement and to calculate their retirement benefit. It also may count toward eligibility for the health insurance credit in retirement, if the employer offers the health insurance credit.

Vesting

Vesting is the minimum length of service a member needs to qualify for a future retirement benefit. Members become vested when they have at least five years (60 months) of service credit. Vesting means members are eligible to qualify for retirement if they meet the age and service requirements for their plan. Members also must be vested to receive a full refund of their member contribution account balance if they leave employment and request a refund.

Members are always 100% vested in the contributions that they make.

PLAN 2

Retirement Contributions

Same as Plan 1.

Service Credit

Same as Plan 1.

Vesting

Same as Plan 1.

HYBRID RETIREMENT PLAN

Retirement Contributions

A member's retirement benefit is funded through mandatory and voluntary contributions made by the member and the employer 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.

Service Credit

Defined Benefit Component:

Under the defined benefit component of the plan, service credit includes active service. Members earn service credit for each month they are employed in a covered position. It also may include credit for prior service the member has purchased or additional service credit the member was granted. A member's total service credit is one of the factors used to determine their eligibility for retirement and to calculate their retirement benefit. It also may count toward eligibility for the health insurance credit in retirement, if the employer offers the health insurance credit.

Defined Contributions Component:

Under the defined contribution component, service credit is used to determine vesting for the employer contribution portion of the plan.

Vesting

Defined Benefit Component:

Defined benefit vesting is the minimum length of service a member needs to qualify for a future retirement benefit. Members are vested under the defined benefit component of the Hybrid Retirement Plan when they reach five years (60 months) of service credit. Plan 1 or Plan 2 members with at least five years (60 months) of service credit who opted into the Hybrid Retirement Plan remain vested in the defined benefit component.

Defined Contributions Component:

Defined contribution vesting refers to the minimum length of service a member needs to be eligible to withdraw the employer contributions from the defined contribution component of the plan.

Members are always 100% vested in the contributions that they make.

PLAN 1

Calculating the Benefit

The basic benefit is determined using the average final compensation, service credit, and plan multiplier. An early retirement reduction is applied to this amount if the member is retiring with a reduced benefit. In cases where the member has elected an optional form of retirement payment, an option factor specific to the option chosen is then applied.

An early retirement reduction factor is applied to the Basic Benefit if the member retires with a reduced retirement benefit or selects a benefit payout option other than the Basic Benefit.

Average Final Compensation

A member's average final compensation is the average of the 36 consecutive months of highest compensation as a covered employee.

Service Retirement Multiplier

VRS: The retirement multiplier is a factor used in the formula to determine a final retirement benefit. The retirement multiplier for non-hazardous duty members is 1.70%.

Sheriffs and regional jail superintendents: The retirement multiplier for sheriffs and regional jail superintendents is 1.85%.

Political subdivision hazardous duty employees: The retirement multiplier of eligible political subdivision hazardous duty employees other than sheriffs and regional jail superintendents is 1.70% or 1.85% as elected by the employer.

PLAN 2

Calculating the Benefit

See definition under Plan 1.

Average Final Compensation

A member's average final compensation is the average of their 60 consecutive months of highest compensation as a covered employee.

Service Retirement Multiplier

VRS: Same as Plan 1 for service earned, purchased, or granted prior to January 1, 2013. For non-hazardous duty members, the retirement multiplier is 1.65% for service credit earned, purchased, or granted on or after January 1, 2013.

Sheriffs and regional jail superintendents: Same as Plan 1.

Political subdivision hazardous duty employees: Same as Plan 1.

HYBRID RETIREMENT PLAN

Upon retirement or leaving covered employment, a member is eligible to withdraw a percentage of employer contributions to the defined contribution component of the plan, based on service.

- After two years, a member is 50% vested and may withdraw 50% of employer contributions.
- After three years, a member is 75% vested and may withdraw 75% of employer contributions.
- After four or more years, a member is 100% vested and may withdraw 100% of employer contributions.

Distribution not required, except as governed by law.

Calculating the Benefit

Defined Benefit Component:

See definition under Plan 1.

Defined Contribution Component:

The benefit is based on contributions made by the member and any matching contributions made by the employer, plus net investment earnings on those contributions.

Average Final Compensation

Same as Plan 2. It is used in the retirement formula for the defined benefit component of the plan.

Service Retirement Multiplier

Defined Benefit Component:

VRS: The retirement multiplier for the defined benefit component is 1.00%.

For members who opted into the Hybrid Retirement Plan from Plan 1 or Plan 2, the applicable multipliers for those plans will be used to calculate the retirement benefit for service credited in those plans.

Sheriffs and regional jail superintendents: Not applicable.

Political subdivision hazardous duty employees: Not applicable.

Defined Contribution Component

Not applicable.

PLAN 1
Normal Retirement Age

VRS: Age 65.

Political subdivisions hazardous duty employees:
Age 60.

Earliest Unreduced Retirement Eligibility

VRS: Age 65 with at least five years (60 months) of service credit or at age 50 with at least 30 years of service credit.

Political subdivisions hazardous duty employees:
Age 60 with at least five years of service credit or age 50 with at least 25 years of service credit.

Earliest Reduced Retirement Eligibility

VRS: Age 55 with at least five years (60 months) of service credit or age 50 with at least 10 years of service credit.

Political subdivisions hazardous duty employees:
Age 50 with at least five years of service credit.

Cost-of-Living Adjustment (COLA) in Retirement
The Cost-of-Living Adjustment (COLA) matches the first 3% increase in the Consumer Price Index for all Urban Consumers (CPI-U) and half of any additional increase (up to 4%) up to a maximum COLA of 5%.

Eligibility:
For members who retire with an unreduced benefit or with a reduced benefit with at least 20 years of service credit, the COLA will go into effect on July 1 after one full calendar year from the retirement date.

For members who retire with a reduced benefit and who have less than 20 years of service credit, the COLA will go into effect on July 1 after one calendar year following the unreduced retirement eligibility date.

PLAN 2
Normal Retirement Age

VRS: Normal Social Security retirement age.

Political subdivisions hazardous duty employees:
Same as Plan 1.

Earliest Unreduced Retirement Eligibility

VRS: Normal Social Security retirement age with at least five years (60 months) of service credit or when their age plus service credit equal 90.

Political subdivisions hazardous duty employees:
Same as Plan 1.

Earliest Reduced Retirement Eligibility

VRS: Age 60 with at least five years (60 months) of service credit.

Political subdivisions hazardous duty employees:
Same as Plan 1.

Cost-of-Living Adjustment (COLA) in Retirement
The Cost-of-Living Adjustment (COLA) matches the first 2% increase in the CPI-U and half of any additional increase (up to 2%), for a maximum COLA of 3%.

Eligibility:
Same as Plan 1

**HYBRID
RETIREMENT PLAN**
Normal Retirement Age

Defined Benefit Component:
VRS: Same as Plan 2.

Political subdivisions hazardous duty employees:
Not applicable.

Defined Contribution Component:
Members are eligible to receive distributions upon leaving employment, subject to restrictions.

Earliest Unreduced Retirement Eligibility

Defined Benefit Component:
VRS: Normal Social Security retirement age and have at least five years (60 months) of service credit or when their age plus service credit equal 90.

Political subdivisions hazardous duty employees:
Not applicable.

Defined Contribution Component:
Members are eligible to receive distributions upon leaving employment, subject to restrictions.

Earliest Reduced Retirement Eligibility

Defined Benefit Component:
VRS: Age 60 with at least five years (60 months) of service credit.

Political subdivisions hazardous duty employees:
Not applicable

Defined Contribution Component:
Members are eligible to receive distributions upon leaving employment, subject to restrictions.

Cost-of-Living Adjustment (COLA) in Retirement
Defined Benefit Component:
Same as Plan 2

Defined Contribution Component:
Not applicable

Eligibility:
Same as Plan 1 and Plan 2

PLAN 1

Exceptions to COLA Effective Dates:

The COLA is effective July 1 following one full calendar year (January 1 to December 31) under any of the following circumstances:

- The member is within five years of qualifying for an unreduced retirement benefit as of January 1, 2013.
- The member retires on disability.
- The member retires directly from short-term or long-term disability.
- The member is involuntarily separated from employment for causes other than job performance or misconduct and is eligible to retire under the Workforce Transition Act or the Transitional Benefits Program.
- The member dies in service and the member's survivor or beneficiary is eligible for a monthly death-in-service benefit. The COLA will go into effect on July 1 following one full calendar year (January 1 to December 31) from the date the monthly benefit begins.

Disability Coverage

Members who are eligible to be considered for disability retirement and retire on disability, the retirement multiplier is 1.70% on all service, regardless of when it was earned, purchased, or granted.

Purchase of Prior Service

Members may be eligible to purchase service from previous public employment, active duty military service, an eligible period of leave or VRS refunded service as service credit in their plan. Prior service credit counts towards vesting, eligibility for retirement and the health insurance credit. Only active members are eligible to purchase prior service. Members also may be eligible to purchase periods of leave without pay.

PLAN 2

Exceptions to COLA Effective Dates:

Same as Plan 1

Disability Coverage

Members who are eligible to be considered for disability retirement and retire on disability, the retirement multiplier is 1.65% on all service, regardless of when it was earned, purchased, or granted.

Purchase of Prior Service

Same as Plan 1

HYBRID RETIREMENT PLAN

Exceptions to COLA Effective Dates:

Same as Plan 1 and Plan 2

Disability Coverage

Employees of political subdivisions (including Plan 1 and Plan 2 opt-ins) participate in the Virginia Local Disability Program (VLDP) unless their local governing body provides an employer-paid comparable program for its members.

Hybrid members (including Plan 1 and Plan 2 opt-ins) covered under VLDP are subject to a one-year waiting period before becoming eligible for non-work related disability benefits.

Purchase of Prior Service

Defined Benefit Component:

Same as Plan 1, with the following exceptions:

- Hybrid Retirement Plan members are ineligible for ported service.

Defined Contribution Component:

Not applicable

Employees Covered by Benefit Terms

As of the June 30, 2020 actuarial valuation, the following employees were covered by the benefit terms of the pension plan:

	<u>Number</u>
Inactive members or their beneficiaries currently receiving benefits	1
Inactive members:	
Vested inactive members	1
Non-vested inactive members	3
LTD	-
Inactive members active elsewhere in VRS	<u>2</u>
Total inactive members	6
Active members	<u>10</u>
Total covered employees	<u><u>17</u></u>

Contributions

The contribution requirement for active employees is governed by §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 5.00% of their compensation toward their retirement.

If the employer used the certified rate: Roanoke River Service Authority's contractually required contribution rate for the year ended June 30, 2022 was 3.63% of covered employee compensation. This rate was based on an actuarially determined rate from an actuarial valuation as of June 30, 2019.

This rate, when combined with employee contributions, 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 to the pension plan from Roanoke River Service Authority were \$14,152 and \$13,817 for the years ended June 30, 2022 and June 30, 2021, 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 GASB Statement No. 68, less that employer's fiduciary net position. For Roanoke River Service Authority, the net pension liability was measured as of June 30, 2021. The total pension liability used to calculate the net pension liability was determined by an actuarial valuation performed as of June 30, 2020 rolled forward to the measurement date of June 30, 2021.

Actuarial Assumptions – General Employees

The total pension liability for General Employees in the Political Subdivision's Retirement Plan was based on an actuarial valuation as of June 30, 2020, 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, 2021.

Inflation	2.50%
Salary increases, including Inflation	3.50% - 5.35%
Investment rate of return	6.75%, net of pension plan investment expenses, including inflation

Mortality rate:

All Others (Non 10 Largest) – Non-Hazardous Duty: 15% of deaths are assumed to be service related.

Pre-Retirement:

Pub-2010 Amount Weighted Safety Employee Rates projected generationally; 95% of rates for males; 105% of rates for females set forward 2 years

Post-Retirement:

Pub-2010 Amount Weighted Safety Healthy Retiree Rates projected generationally; 110% of rates for males; 105% of rates for females set forward 3 years

Post-Disablement:

Pub-2010 Amount Weighted General Disabled Rates projected generationally; 95% of rates for males set back 3 years; 90% of rates for females set back 3 years

Beneficiaries and Survivors:

Pub-2010 Amount Weighted Safety Contingent Annuitant Rates provided generationally; 110% of rates for males and females set forward 2 years

Mortality Improvement:

Rates projected generationally with Modified MP-2020 Improvement Scale that is 75% of the MP-2020 rates

The actuarial assumptions used in the June 30, 2020 valuation were based on the results of an actuarial experience study for the period from July 1, 2016 through June 30, 2020, 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:

All Others (Non 10 Largest) – Non-Hazardous Duty:

Mortality Rates (Pre-retirement, post-retirement healthy, and disabled)	Update to PUB2010 public sector mortality tables. For future mortality improvements, replace load with a modified Mortality Improvement Scale MP-2020.
Retirement Rates	Adjusted rates to better fit experience for Plan 1; set separate rates based on experience for Plan 2/Hybrid; changed final retirement age
Withdrawal Rates	Adjusted rates to better fit experience at each year age and service through 9 years of service
Disability Rates	No change
Salary Scale	No change
Line of Duty Disability	No change
Discount Rate	No change

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

<u>Asset Class (Strategy)</u>	<u>Long-Term Target Asset Allocation</u>	<u>Arithmetic Long-Term Expected Rate of Return</u>	<u>Weighted Average Long-Term Expected Rate of Return*</u>
Public Equity	34.00%	5.00%	1.70%
Fixed Income	15.00%	0.57%	0.09%
Credit Strategies	14.00%	4.49%	0.63%
Real Assets	14.00%	4.76%	0.67%
Private Equity	14.00%	9.94%	1.39%
MAPS - Multi-Asset Public Strategies	6.00%	3.29%	0.20%
PIP - Private Investment Partnership	<u>3.00%</u>	6.84%	<u>0.21%</u>
Total	<u>100.00%</u>		<u>4.89%</u>
		Inflation	<u>2.50%</u>
		Expected arithmetic nominal return*	<u>7.39%</u>

**The above allocation provides a one-year return of 7.39%. 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. These results provide a range of returns over various time periods that ultimately provide a median return of 6.94%, including expected inflation of 2.50%.*

**On October 10, 2019, the VRS Board elected a long-term rate of 6.75% which was roughly at the 40th percentile of expected long-term results of the VRS fund asset allocation at that time, providing a median return of 7.11%, including expected inflation of 2.50%.*

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, 2021, 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, 2021 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

	Total Pension Liability (a)	Increase (Decrease) Plan Fiduciary Net Position (b)	Net Pension Liability (a) - (b)
Balances at June 30, 2020	\$ 631,894	\$ 728,795	\$ (96,901)
Changes for the Year			
Service cost	39,352	-	39,352
Interest	42,041	-	42,041
Benefit changes	-	-	-
Differences between expected and actual experience	70,334	-	70,334
Assumption changes	28,037	-	28,037
Contributions - employer	-	9,932	(9,932)
Contributions - employee	-	17,076	(17,076)
Net investment income	-	203,800	(203,800)
Benefit payments, including refunds	(18,132)	(18,132)	-
Refunds of employee contributions	-	-	-
Administrative expenses	-	(486)	486
Other changes	-	19	(19)
Net Changes	161,632	212,209	(50,577)
Balances at June 30, 2021	\$ 793,526	\$ 941,004	\$ (147,478)

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

The following presents the net pension liability of Roanoke River Service Authority using the discount rate of 6.75%, as well as what Roanoke River Service Authority's net pension 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:

	1.00% Decrease (5.75)%	Current Discount Rate (6.75)%	1.00% Increase (7.75)%
Political subdivision's Net Pension Liability	\$ (23,742)	\$ (147,478)	\$ (248,904)

Pension Expense and Deferred Outflows of Resources and Deferred Inflows of Resources Related to Pensions

For the year ended June 30, 2022, Roanoke River Service Authority recognized pension expense of \$(12,540). At June 30, 2022, Roanoke River Service Authority reported deferred outflows of resources and deferred inflows of resources related to pensions from the following sources:

	<u>Deferred Outflows of Resources</u>	<u>Deferred Inflows of Resources</u>
Differences between expected and actual experience	\$ 48,759	\$ 27,932
Change in assumptions	27,861	5,403
Net difference between projected and actual earnings on pension plan investments	-	102,374
Employer contributions subsequent to the measurement date	<u>14,152</u>	<u>-</u>
Total	<u>\$ 90,772</u>	<u>\$ 135,709</u>

\$14,152 reported as deferred outflows of resources related to pensions resulting from Roanoke River Service Authority's contributions subsequent to the measurement date will be recognized as a reduction of the Net Pension Liability in the fiscal year ending June 30, 2023. Other amounts reported as deferred outflows of resources and deferred inflows of resources related to pensions will be recognized in pension expense in future reporting periods as follows:

**Year Ended
June 30,**

2023	\$ (20,321)
2024	8,113
2025	(16,015)
2026	(30,866)
2027	-

Pension Plan Data

Information about the VRS Political Subdivision Retirement Plan is also available in the separately issued VRS 2021 Annual Report. A copy of the 2021 VRS Annual Report may be downloaded from the VRS website at www.varetire.org/Pdf/Publications/2021-annual-report.pdf, or by writing to the System's Chief Financial Officer at P.O. Box 2500, Richmond, VA 23218-2500.

7 Long-Term Debt

Annual requirements to amortize long-term debt and related interest are as follows:

<u>Year(s) Ending June 30,</u>	<u>Principal</u>	<u>Interest</u>
2023	\$ 213,909	\$ 232,521
2024	222,818	223,613
2025	232,118	214,312
2026	241,827	204,604
2027	251,962	194,469
2028-2032	1,273,610	808,246
2033-2037	1,453,056	511,944
2038-2042	<u>1,506,026</u>	<u>150,832</u>
	<u>\$ 5,395,326</u>	<u>\$ 2,540,541</u>

Changes in Long-Term Debt

The following is a summary of changes in long-term obligations of the Authority:

<u>Details of Long-Term Indebtedness</u>	<u>Balance July 1, 2021</u>	<u>Increase</u>	<u>Decrease</u>	<u>Balance June 30, 2022</u>	<u>Due Within One Year</u>
Virginia Resources Authority Series 2000A issued November 27, 2000 for \$200,344; payable in semi-annual installments of \$3,454 at 0% interest for 30 years.	\$ 63,714	\$ -	\$ 6,707	\$ 57,007	\$ 6,707
Touchstone Bank unsecured loan dated October 21, 2015 for \$497,142; payable in annual installments of \$46,724 at 2.99% interest for 13 years.	328,245	-	37,075	291,170	38,019
United States Department of Agriculture Series 2001A - Rural Development issued November 2, 2001 for \$7,135,000; payable interest only for first 25 months then monthly installments of \$32,750 for 456 months at 4.50% interest.	5,208,901	-	161,752	5,047,149	169,183
	<u>\$ 5,600,860</u>	<u>\$ -</u>	<u>\$ 205,534</u>	<u>\$ 5,395,326</u>	<u>\$ 213,909</u>

8 Net Investment in Capital Assets

The "net investment in capital assets" amount reported on the Statements of Net Position as of June 30, 2022 and 2021 is determined as follows:

	<u>2022</u>	<u>2021</u>
Cost of capital assets	\$ 13,000,056	\$ 12,931,506
Less: Accumulated depreciation	(4,637,410)	(4,353,499)
Book value	8,362,646	8,578,007
Less: Capital related debt	(5,395,326)	(5,600,860)
Net Investment in Capital Assets	<u>\$ 2,967,320</u>	<u>\$ 2,977,147</u>

9 Commitments and Contingencies

If applicable, federal programs in which the Authority participates were audited as required by Title 2 U.S. Code of Federal Regulations (CFR) Part 200, *Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards*. Pursuant to the requirements of the Uniform Guidance, all major programs and certain other programs were tested for compliance with applicable grant requirements. While no matters of noncompliance were disclosed by the audit, the Federal Government may subject grant programs to additional compliance tests which may result in disallowed expenditures. In the opinion of management, any future disallowance of current grant program expenditures, if any, would be immaterial.

10 Risk Management

The Authority is exposed to various risks of loss related to torts; theft of, damage to, and destruction of assets; errors and omissions; injuries to employees; and natural disasters. The Authority joined together with other local governments in Virginia to form the Virginia Risk Sharing Association, a public entity risk pool currently operating as a common risk management and insurance program for participating local governments. The Authority pays an annual premium to the pool for substantially all of its insurance coverage. In the event of a loss deficit and depletion of all available excess insurance, the pool may assess all members in the proportion which the premium of each bears to the total premiums of all members in the year in which such deficit occurs.

The Authority continues to carry commercial insurance for all other risks of loss and employee health and accident insurance. Settled claims resulting from these risks have not exceeded commercial insurance coverage in any of the past three fiscal years.

11 Litigation

At June 30, 2022, there were no matters of litigation involving the Authority which would materially affect the Authority's financial position should any court decision or pending matter not be favorable to the Authority.

12 Other-Post Employment Benefits - Group Life Insurance Program

Plan Description

All full-time, salaried permanent employees of the state agencies, teachers and employees of participating political subdivisions are automatically covered by the VRS Group Life Insurance Program upon employment. This plan is administered by the Virginia Retirement System (the System), along with pensions and other OPEB plans, for public employer groups in the Commonwealth of Virginia.

In addition to the Basic Group Life Insurance benefit, members are also eligible to elect additional coverage for themselves as well as a spouse or dependent children through the Optional Group Life Insurance 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 Group Life Insurance Program OPEB.

The specific information for Group Life Insurance Program OPEB, including eligibility, coverage and benefits is set out in the table below:

GROUP LIFE INSURANCE PROGRAM PLAN PROVISIONS
<p>Eligible Employees</p> <p>The Group Life Insurance Program was established July 1, 1960, for state employees, teachers and employees of political subdivisions that elect the program, including the following employers that do not participate in VRS for retirement:</p> <ul style="list-style-type: none"> • City of Richmond • City of Portsmouth • City of Roanoke • City of Norfolk • Roanoke City Schools Board <p>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 accumulated retirement member contributions and accrued interest.</p>
<p>Benefit Amounts</p> <p>The benefits payable under the Group Life Insurance Program have several components.</p> <ul style="list-style-type: none"> • <i>Natural Death Benefit:</i> The natural death benefit is equal to the employee's covered compensation rounded to the next highest thousand and then doubled. • <i>Accidental Death Benefit:</i> The accidental death benefit is double the natural death benefit. • <i>Other Benefit Provisions:</i> In addition to the basic natural and accidental death benefits, the program provides additional benefits provided under specific circumstances. These include: <ul style="list-style-type: none"> Accidental dismemberment benefit Safety belt benefit Repatriation benefit Felonious assault benefit Accelerated death benefit option
<p>Reduction in Benefit Amounts</p> <p>The benefit amounts provided to members covered under the Group Life Insurance 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.</p>
<p>Minimum Benefit Amount and Cost-of-Living Adjustment (COLA)</p> <p>For covered members with at least 30 years of creditable service, there is a minimum benefit payable under the Group Life Insurance Program. The minimum benefit was set at \$8,000 by statute in 2015. This amount will be increased annually based on the VRS Plan 2 cost-of-living adjustment calculation. The minimum benefit adjusted for the COLA was \$8,722 as of June 30, 2022.</p>

Contributions

The contribution requirements for the Group Life Insurance 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 Group Life Insurance Program was 1.34% of covered employee compensation. This was allocated into an employee and an employer component using a 60/40 split. The employee component was 0.80% (1.34% X 60%) and the employer component was 0.54% (1.34% 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 year ended June 30, 2022 was 0.54% of covered employee compensation. This rate was based on an actuarially determined rate from an actuarial valuation as of June 30, 2019. 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. Contribution to the Group Life Insurance Program from the entity were \$2,105 and \$2,069 for the years ended June 30, 2022 and June 30, 2021, respectively.

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, 2022, the participating employer reported a liability of \$21,656 for its proportionate share of the Net GLI OPEB Liability. The Net GLI OPEB Liability was measured as of June 30, 2021 and the total GLI OPEB liability used to calculate the Net GLI OPEB Liability was determined by an actuarial valuation performed as of June 30, 2020, and rolled forward to the measurement date of June 30, 2021. The covered employer's proportion of the Net GLI OPEB Liability was based on the covered employer's actuarially determined employer contributions to the Group Life Insurance Program for the year ended June 30, 2021 relative to the total of the actuarially determined employer contributions for all participating employers. At June 30, 2021, the participating employer's proportion was .00186% as compared to .00199% at June 30, 2020.

For the year ended June 30, 2022, the participating employer recognized GLI OPEB expense of \$1,729. 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, 2022, the employer reported deferred outflows of resources and deferred inflows of resources related to the GLI OPEB from the following sources:

	<u>Deferred Outflows of Resources</u>	<u>Deferred Inflows of Resources</u>
Differences between expected and actual experience	\$ 2,470	\$ 165
Net difference between projected and actual earnings on GLI OPEB program investments	-	5,169
Change in assumptions	1,194	2,963
Changes in proportionate share	4,873	1,600
Employer contributions subsequent to the measurement date	<u>2,105</u>	<u>-</u>
Total	<u>\$ 10,642</u>	<u>\$ 9,897</u>

\$2,105 reported as deferred outflows of resources related to the GLI OPEB resulting from the employer's contributions subsequent to the measurement date will be recognized as a reduction of the Net GLI OPEB Liability in the Fiscal Year ending June 30, 2023. 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:

<u>Year Ended June 30,</u>	
2023	\$ (225)
2024	16
2025	26
2026	(805)
2027	(372)
Thereafter	-

Actuarial Assumptions

The total GLI OPEB liability was based on an actuarial valuation as of June 30, 2020, 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, 2021.

Inflation	2.50%
Salary increases, including inflation -	
General state employees	3.50% - 5.35%
Teachers	3.50% - 5.95%
SPORS employees	3.50% - 4.75%
VaLORS employees	3.50% - 4.75%
JRS employees	4.50%
Locality - General employees	3.50% - 5.35%
Locality - Hazardous Duty employees	3.50% - 4.75%
Investment rate of return	6.75%, net of investment expenses, including inflation

Mortality rates – General State Employees

Pre-Retirement:

Pub-2010 Amount Weighted General Employee Rates projected generationally;
females set forward 2 years

Post-Retirement:

Pub-2010 Amount Weighted General Healthy Retiree Rates projected generationally;
110% of rates for females

Post-Disablement:

Pub-2010 Amount Weighted General Disabled Rates projected generationally; males
and females set forward 3 years

Beneficiaries and Survivors:

Pub-2010 Amount Weighted General Contingent Annuitant Rates projected
generationally; 110% of rates for males and females

Mortality Improvement Scale:

Rates projected generationally with Modified MP-2020 Improvement Scale that is 75%
of the MP-2020 rates

The actuarial assumptions used in the June 30, 2020 valuation were based on the results of an actuarial experience study for the period from July 1, 2016 through June 30, 2020, 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)	Update to PUB2010 public sector mortality tables. For future mortality improvements, replace load with a modified Mortality Improvement Scale MP-2020
Retirement Rates	Adjusted rates to better fit experience for Plan 1; set separate rates based on experience for Plan 2/Hybrid; changed final retirement age from 75 to 80 for all
Withdrawal Rates	Adjusted rates to better fit experience at each year age and service through 9 years of service
Disability Rates	No change
Salary Scale	No change
Line of Duty Disability	No change
Discount Rate	No change

Mortality rates – Teachers

Pre-Retirement:

Pub-2010 Amount Weighted Teachers Employee Rates projected generationally; 110% of rates for males

Post-Retirement:

Pub-2010 Amount Weighted Teachers Healthy Retiree Rates projected generationally; males set forward 1 year; 105% of rates for females

Post-Disablement:

Pub-2010 Amount Weighted Teachers Disabled Rates projected generationally; 110% of rates for males and females

Beneficiaries and Survivors:

Pub-2010 Amount Weighted Teachers Contingent Annuitant Rates projected generationally

Mortality Improvement Scale:

Rates projected generationally with Modified MP-2020 Improvement Scale that is 75% of the MP-2020 rates

The actuarial assumptions used in the June 30, 2020 valuation were based on the results of an actuarial experience study for the four-year period from July 1, 2016 through June 30, 2020, 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)	Update to PUB2010 public sector mortality tables. For future mortality improvements, replace load with a modified Mortality Improvement Scale MP-2020
Retirement Rates	Adjusted rates to better fit experience for Plan 1; set separate rates based on experience for Plan 2/Hybrid; changed final retirement age from 75 to 80 for all
Withdrawal Rates	Adjusted rates to better fit experience at each year age and service through 9 years of service
Disability Rates	No change
Salary Scale	No change
Discount Rate	No change

Mortality rates – SPORS Employees

Pre-Retirement:

Pub-2010 Amount Weighted Safety Employee Rates projected generationally; 95% of rates for males; 105% of rates for females set forward 2 years

Post-Retirement:

Pub-2010 Amount Weighted Safety Healthy Retiree Rates projected generationally; 110% of rates for males; 105% of rates for females set forward 3 years

Post-Disablement:

Pub-2010 Amount Weighted General Disabled Rates projected generationally; 95% of rates for males set back 3 years; 90% of rates for females set back 3 years

Beneficiaries and Survivors:

Pub-2010 Amount Weighted Safety Contingent Annuitant Rates projected generationally; 110% of rates for males and females set forward 2 years

Mortality Improvement Scale:

Rates projected generationally with Modified MP-2020 Improvement Scale that is 75% of the MP-2020 rates

The actuarial assumptions used in the June 30, 2020 valuation were based on the results of an actuarial experience study for the period from July 1, 2016 through June 30, 2020 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)	Update to PUB2010 public sector mortality tables. For future mortality improvements, replace load with a modified Mortality Improvement Scale MP-2020
Retirement Rates	Increased rates for ages 55 to 61, 63, and 64 with 26 or more years of service; changed final retirement age from 65 to 70
Withdrawal Rates	Decreased rate for 0 years of service and increased rates for 1 to 6 years of service
Disability Rates	No change
Salary Scale	No change
Line of Duty Disability	No change
Discount Rate	No change

Mortality rates – VaLORS Employees

Pre-Retirement:

Pub-2010 Amount Weighted Safety Employee Rates projected generationally; 95% of rates for males; 105% of rates for females set forward 2 years

Post-Retirement:

Pub-2010 Amount Weighted Safety Healthy Retiree Rates projected generationally; 110% of rates for males; 105% of rates for females set forward 3 years.

Post-Disablement:

Pub-2010 Amount Weighted General Disabled Rates projected generationally; 95% of rates for males set back 3 years; 90% of rates for females set back 3 years

Beneficiaries and Survivors:

Pub-2010 Amount Weighted Safety Contingent Annuitant Rates projected generationally; 110% of rates for males and females set forward 2 years

Mortality Improvement Scale:

Rates projected generationally with Modified MP-2020 Improvement Scale that is 75% of the MP-2020 rates

The actuarial assumptions used in the June 30, 2020 valuation were based on the results of an actuarial experience study for the period from July 1, 2016 through June 30, 2020, 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)	Update to PUB2010 public sector mortality tables. For future mortality improvements, replace load with a modified Mortality Improvement Scale MP-2020
Retirement Rates	Increased rates at some younger ages, decreased at age 62, and changed final retirement age from 65 to 70
Withdrawal Rates	Adjusted rates to better fit experience at each year age and service through 9 years of service
Disability Rates	No change
Salary Scale	No change
Line of Duty Disability	No change
Discount Rate	No change

Mortality rates – JRS Employees

Pre-Retirement:

Pub-2010 Amount Weighted General Employee Rates projected generationally; males set forward 2 years

Post-Retirement:

Pub-2010 Amount Weighted General Healthy Retiree Rates projected generationally; 95% of rates for males and females set back 2 years

Post-Disablement:

Pub-2010 Amount Weighted General Disabled Rates projected generationally

Beneficiaries and Survivors:

Pub-2010 Amount Weighted Safety Contingent Annuitant Rates projected generationally

Mortality Improvement Scale:

Rates projected generationally with Modified MP-2020 Improvement Scale that is 75% of the MP-2020 rates

The actuarial assumptions used in the June 30, 2020 valuation were based on the results of an actuarial experience study for the four-year period from July 1, 2016 through June 30, 2020, 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)	Review separately from State employees because exhibit fewer deaths. Update to PUB2010 public sector mortality tables. For future mortality improvements, replace load with a modified Mortality Improvement Scale MP-2020
Retirement Rates	Decreased rates for ages 60-66 and 70-72
Withdrawal Rates	No change
Disability Rates	No change
Salary Scale	Reduced increases across all ages by 0.50%
Discount Rate	No change

Mortality rates – Largest Ten Locality Employers - General Employees

Pre-Retirement:

Pub-2010 Amount Weighted Safety Employee Rates projected generationally; males set forward 2 years; 105% of rates for females set forward 3 years

Post-Retirement:

Pub-2010 Amount Weighted Safety Healthy Retiree Rates projected generationally; 95% of rates for males set forward 2 years; 95% of rates for females set forward 1 year

Post-Disablement:

Pub-2010 Amount Weighted General Disabled Rates projected generationally; 110% of rates for males set forward 3 years; 110% of rates for females set forward 2 years

Beneficiaries and Survivors:

Pub-2010 Amount Weighted Safety Contingent Annuitant Rates projected generationally

Mortality Improvement Scale:

Rates projected generationally with Modified MP-2020 Improvement Scale that is 75% of the MP-2020 rates

The actuarial assumptions used in the June 30, 2020 valuation were based on the results of an actuarial experience study for the period from July 1, 2016 through June 30, 2020, 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)	Update to PUB2010 public sector mortality tables. For future mortality improvements, replace load with a modified Mortality Improvement Scale MP-2020
Retirement Rates	Adjusted rates to better fit experience for Plan 1; set separate rates based on experience for Plan 2/Hybrid; changed final retirement age from 75 to 80 for all
Withdrawal Rates	Adjusted rates to better fit experience at each age and service decrement through 9 years of service
Disability Rates	No change
Salary Scale	No change
Line of Duty Disability	No change
Discount Rate	No change

Mortality rates – Non-Largest Ten Locality Employers - General Employees

Pre-Retirement:

Pub-2010 Amount Weighted Safety Employee Rates projected generationally; males set forward 2 years; 105% of rates for females set forward 3 years

Post-Retirement:

Pub-2010 Amount Weighted Safety Healthy Retiree Rates projected generationally; 95% of rates for males set forward 2 years; 95% of rates for females set forward 1 year

Post-Disablement:

Pub-2010 Amount Weighted General Disabled Rates projected generationally; 110% of rates for males set forward 3 years; 110% of rates for females set forward 2 years

Beneficiaries and Survivors:

Pub-2010 Amount Weighted Safety Contingent Annuitant Rates projected generationally

Mortality Improvement Scale:

Rates projected generationally with Modified MP-2020 Improvement Scale that is 75% of the MP-2020 rates

The actuarial assumptions used in the June 30, 2020 valuation were based on the results of an actuarial experience study for the period from July 1, 2016 through June 30, 2020, 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)	Update to PUB2010 public sector mortality tables. For future mortality improvements, replace load with a modified Mortality Improvement Scale MP-2020
Retirement Rates	Adjusted rates to better fit experience for Plan 1; set separate rates based on experience for Plan 2/Hybrid; changed final retirement age from 75 to 80 for all
Withdrawal Rates	Adjusted rates to better fit experience at each age and service decrement through 9 years of service
Disability Rates	No change
Salary Scale	No change
Line of Duty Disability	No change
Discount Rate	No change

Mortality rates – Largest Ten Locality Employers – Hazardous Duty Employees

Pre-Retirement:

Pub-2010 Amount Weighted Safety Employee Rates projected generationally; 95% of rates for males; 105% of rates for females set forward 2 years

Post-Retirement:

Pub-2010 Amount Weighted Safety Healthy Retiree Rates projected generationally; 110% of rates for males; 105% of rates for females set forward 3 years

Post-Disablement:

Pub-2010 Amount Weighted General Disabled Rates projected generationally; 95% of rates for males set back 3 years; 90% of rates for females set back 3 years

Beneficiaries and Survivors:

Pub-2010 Amount Weighted Safety Contingent Annuitant Rates projected generationally; 110% of rates for males and females set forward 2 years

Mortality Improvement Scale:

Rates projected generationally with Modified MP-2020 Improvement Scale that is 75% of the MP-2020 rates

The actuarial assumptions used in the June 30, 2020 valuation were based on the results of an actuarial experience study for the period from July 1, 2016 through June 30, 2020, 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)	Update to PUB2010 public sector mortality tables. Increased disability life expectancy. For future mortality improvements, replace load with a modified Mortality Improvement Scale MP-2020
Retirement Rates	Adjusted rates to better fit experience and changed final retirement age from 65 to 70
Withdrawal Rates	Decreased rates
Disability Rates	No change
Salary Scale	No change
Line of Duty Disability	No change
Discount Rate	No change

Mortality rates – Non-Largest Ten Locality Employers – Hazardous Duty Employees

Pre-Retirement:

Pub-2010 Amount Weighted Safety Employee Rates projected generationally; 95% of rates for males; 105% of rates for females set forward 2 years

Post-Retirement:

Pub-2010 Amount Weighted Safety Healthy Retiree Rates projected generationally; 110% of rates for males; 105% of rates for females set forward 3 years

Post-Disablement:

Pub-2010 Amount Weighted General Disabled Rates projected generationally; 95% of rates for males set back 3 years; 90% of rates for females set back 3 years

Beneficiaries and Survivors:

Pub-2010 Amount Weighted Safety Contingent Annuitant Rates projected generationally; 110% of rates for males and females set forward 2 years

Mortality Improvement Scale:

Rates projected generationally with Modified MP-2020 Improvement Scale that is 75% of the MP-2020 rates

The actuarial assumptions used in the June 30, 2020 valuation were based on the results of an actuarial experience study for the period from July 1, 2016 through June 30, 2020, 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)	Update to PUB2010 public sector mortality tables. Increased disability life expectancy. For future mortality improvements, replace load with a modified Mortality Improvement Scale MP-2020
Retirement Rates	Adjusted rates to better fit experience and changed final retirement age from 65 to 70
Withdrawal Rates	Decreased rates and changed from rates based on age and service to rates based on service only to better fit experience and to be more consistent with Locals Top 10 Hazardous Duty
Disability Rates	No change
Salary Scale	No change
Line of Duty Disability	No change
Discount Rate	No change

Net GLI OPEB Liability

The net OPEB liability (NOL) for the Group Life Insurance Program represents the program's total OPEB liability determined in accordance with GASB Statement No. 74, less the associated fiduciary net position. As of the measurement date of June 30, 2021, NOL amounts for the Group Life Insurance Program are as follows (amounts expressed in thousands):

**Group Life
Insurance
OPEB Program**

Total GLI OPEB Liability	\$ 3,577,346
Plan Fiduciary Net Position	<u>2,413,074</u>

GLI OPEB Liability (Asset)	<u><u>\$ 1,164,272</u></u>
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Plan Fiduciary Net Position as a Percentage of the Total GLI OPEB Liability	67.45%
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The total GLI OPEB liability is calculated by the System's actuary, and each plan's fiduciary net position is reported in the System's financial statements. The net GLI OPEB liability is disclosed in accordance with the requirements of GASB Statement No. 74 in the System's notes to the financial statements and required supplementary information.

Long-Term Expected Rate of Return

The long-term expected rate of return on the System's investments was determined using a lognormal distribution analysis in which best-estimate ranges of expected future real rates of return (expected returns, net of System'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:

<u>Asset Class (Strategy)</u>	<u>Long-Term Target Asset Allocation</u>	<u>Arithmetic Long-Term Expected Rate of Return</u>	<u>Weighted Average Long-Term Expected Rate of Return*</u>
Public Equity	34.00%	5.00%	1.70%
Fixed Income	15.00%	0.57%	0.09%
Credit Strategies	14.00%	4.49%	0.63%
Real Assets	14.00%	4.76%	0.67%
Private Equity	14.00%	9.94%	1.39%
MAPS - Multi-Asset Public Strategies	6.00%	3.29%	0.20%
PIP - Private Investment Partnership	<u>3.00%</u>	6.84%	<u>0.21%</u>
Total	<u>100.00%</u>		<u>4.89%</u>
		Inflation	<u>2.50%</u>
		Expected arithmetic nominal return*	<u>7.39%</u>

**The above allocation provides a one-year return of 7.39%. 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. These results provide a range of returns over various time periods that ultimately provide a median return of 6.94%, 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 at that time, providing a median return of 7.11%, including expected inflation of 2.50%.*

Discount Rate

The discount rate used to measure the total GLI OPEB liability was 6.75%. The projection of cash flows used to determine the discount rate assumed that employer contributions will be made in accordance with the VRS funding policy and at rates equal to the actuarially determined contribution rates adopted by the VRS Board of Trustees. Through the fiscal year ending June 30, 2021, the rate contributed by the entity for the GLI 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, 2021 on, employers are assumed to continue to contribute 100% of the actuarially determined contribution rates. Based on those assumptions, the GLI 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 OPEB liability.

Sensitivity of the Employer's Proportionate Share of the Net GLI OPEB Liability to Changes in the Discount Rate

The following presents the employer's proportionate share of the net GLI OPEB liability using the discount rate of 6.75%, as well as what the employer's proportionate share of 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:

	1.00% Decrease (5.75%)	Current Discount Rate (6.75%)	1.00% Increase (7.75%)
State Agency's Proportionate Share of the Group Life Insurance Program Net OPEB Liability	\$ 31,640	\$ 21,656	\$ 13,593

Group Life Insurance Program Fiduciary Net Position

Detailed information about the Group Life Insurance Program's Fiduciary Net Position is available in the separately issued VRS 2021 *Annual Comprehensive Financial Report* (Annual Report). A copy of the 2021 VRS Annual Report may be downloaded from the VRS website at www.varetire.org/Pdf/Publications/2021-annual-report.pdf, or by writing to the System's Chief Financial Officer at P.O. Box 2500, Richmond, VA, 23218-2500.

13 Other Post-Employment Benefits - Virginia Local Disability Program

Plan Description

All full-time, salaried general employees; including local law enforcement officers, firefighters, or emergency medical technicians of political subdivisions who do not provide enhanced hazardous duty benefits; who are in the VRS Hybrid Retirement Plan benefit structure and whose employer has not elected to opt out of the VRS-sponsored program are automatically covered by the VRS Political Subdivision Employee Virginia Local Disability Program. This plan is administered by the Virginia Retirement System (the System), along with pension and other OPEB plans, for eligible public employer groups in the Commonwealth of Virginia. Political subdivisions are required by Title 51.1 of the *Code of Virginia*, as amended to provide short-term and long-term disability benefits for their Hybrid employees either through a local plan or through the Virginia Local Disability Program (VLDP).

The specific information for each plan and the eligibility for covered groups within each plan are set out in the table below:

POLITICAL SUBDIVISION EMPLOYEE VIRGINIA LOCAL DISABILITY PROGRAM (VLDP) PLAN PROVISIONS

Eligible Employees

The Political Subdivision Employee Virginia Local Disability Program was implemented January 1, 2014 to provide short-term and long-term disability benefits for non-work-related and work-related disabilities for employees with Hybrid retirement benefits

Eligible employees are enrolled automatically upon employment, unless their employer has elected to provide comparable coverage. They include:

- Full-time general employees; including local law enforcement officers, firefighters, or emergency medical technicians who do not have enhanced hazardous duty benefits; of public political subdivisions covered under VRS.

Benefit Amounts

The Political Subdivision Employee Virginia Disability Local Program (VLDP) provides the following benefits for eligible employees:

Short-Term Disability:

- The program provides a short-term disability benefit beginning after a seven-calendar-day waiting period from the first day of disability. Employees become eligible for non-work-related short-term disability coverage after one year of continuous participation in VLDP with their current employer.
- During the first five years of continuous participation in VLDP with their current employer, employees are eligible for 60% of their pre-disability income if they go out on non-work-related or work-related disability.
- Once the eligibility period is satisfied, employees are eligible for higher income replacement levels

Long-Term Disability:

- The VLDP program provides a long-term disability benefit beginning after 125 workdays of short-term disability. Members are eligible if they are unable to work at all or are working fewer than 20 hours per week.
- Members approved for long-term disability will receive 60% of their pre-disability income. If approved for work-related long-term disability, the VLDP benefit will be offset by the workers' compensation benefit. Members will not receive a VLDP benefit if their workers' compensation benefit is greater than the VLDP benefit.

Virginia Local Disability Program Notes:

- Members approved for short-term or long-term disability at age 60 or older will be eligible for a benefit, provided they remain medically eligible.
- VLDP Long-Term Care Plan is a self-funded program that assists with the cost of covered long-term care services.

Contributions

The contribution requirement for active Hybrid employees is governed by §51.1-1178(C) of the *Code of Virginia*, as amended, but may be impacted as a result of funding provided to political subdivisions by the Virginia General Assembly. Each political subdivision's contractually required employer contribution rate for the year ended June 30, 2022 was 0.83% of covered employee compensation for employees in the VRS Political Subdivision Employee Virginia Local Disability Program. This rate was based on an actuarially determined rate from an actuarial valuation as of June 30, 2019. 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 the political subdivision to the VRS Political Subdivision Employee Virginia Local Disability Program were \$2,036 and \$1,624 for the years ended June 30, 2022 and June 30, 2021, respectively.

Political Subdivision Employee Virginia Local Disability Program OPEB Liabilities, Political Subdivision Employee Virginia Local Disability Program OPEB Expense, and Deferred Outflows of Resources and Deferred Inflows of Resources Related to Political Subdivision Employee Virginia Local Disability Program OPEB

At June 30, 2022, the political subdivision reported a liability of \$(493) for its proportionate share of the VRS Political Subdivision Employee Virginia Local Disability Program Net OPEB Liability. The Net VRS Political Subdivision Employee Virginia Local Disability Program OPEB Liability was measured as of June 30, 2021 and the total VRS Political Subdivision Employee Virginia Local Disability Program OPEB liability used to calculate the Net VRS Political Subdivision Employee Virginia Local Disability Program OPEB Liability was determined by an actuarial valuation as of June 30, 2020, and rolled forward to the measurement date of June 30, 2021. The political subdivision's proportion of the Net VRS Political Subdivision Employee Virginia Local Disability Program OPEB Liability was based on the political subdivision's actuarially determined employer contributions to the VRS Political Subdivision Employee Virginia Local Disability Program OPEB plan for the year ended June 30, 2021 relative to the total of the actuarially determined employer contributions for all participating employers. At June 30, 2021, the political subdivision's proportion of the VRS Political Subdivision Employee Virginia Local Disability Program was .04871% as compared to .04402% at June 30, 2020.

For the year ended June 30, 2022, the political subdivision recognized VRS Political Subdivision Employee Virginia Local Disability Program OPEB expense of \$1,395. Since there was a change in proportionate share between measurement dates a portion of the VRS Political Subdivision Employee Virginia Local Disability Program Net OPEB expense was related to deferred amounts from changes in proportion.

At June 30, 2022, the political subdivision reported deferred outflows of resources and deferred inflows of resources related to the VRS Political Subdivision Employee Virginia Local Disability Program OPEB from the following sources:

	Deferred Outflows of Resources	Deferred Inflows of Resources
Differences between expected and actual experience	\$ 293	\$ 739
Net difference between projected and actual earnings on VLDP OPEB political subdivision program investments	-	275
Change in assumptions	17	134
Changes in proportion	314	-
Employer contributions subsequent to the measurement date	<u>2,036</u>	<u>-</u>
Total	<u>\$ 2,660</u>	<u>\$ 1,148</u>

\$2,036 reported as deferred outflows of resources related to the Political Subdivision Employee VLDP OPEB resulting from the political subdivision's contributions subsequent to the measurement date will be recognized as a reduction of the Net Political Subdivision Employee VLDP OPEB Liability in the Fiscal Year ending June 30, 2023. Other amounts reported as deferred outflows of resources and deferred inflows of resources related to the Political Subdivision Employee VLDP OPEB will be recognized in the Political Subdivision Employee VLDP OPEB expense in future reporting periods as follows:

**Year Ended
June 30,**

2023	\$	(69)
2024		(69)
2025		(72)
2026		(183)
2027		(47)
Thereafter		(84)

Actuarial Assumptions

The total Political Subdivision Employee VLDP OPEB liability for the VRS Political Subdivision Employee Virginia Local Disability Program was based on an actuarial valuation as of June 30, 2020, 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, 2021.

Inflation	2.50%
Salary increases, including inflation - Political subdivision employees	3.50% - 5.35%
Investment rate of return	6.75%, including inflation

Mortality rates – Non-Largest Ten Locality Employers - General and Non-Hazardous Duty Employees

Pre-Retirement:

Pub-2010 Amount Weighted General Employee Rates projected generationally; males set forward 2 years; 105% of rates for females set forward 3 years

Post-Retirement:

Pub-2010 Amount Weighted General Healthy Retiree Rates projected generationally; 95% of rates for males set forward 2 years; 95% of rates for females set forward 1 year

Post-Disablement:

Pub-2010 Amount Weighted General Disabled Rates projected generationally; 110% of rates for males set forward 3 years; 110% of rates for females set forward 2 years

Beneficiaries and Survivors:

Pub-2010 Amount Weighted General Contingent Annuitant Rates projected generationally

Mortality Improvement Scale:

Rates projected generationally with Modified MP-2020 Improvement Scale that is 75% of the MP-2020 rates

The actuarial assumptions used in the June 30, 2020 valuation were based on the results of an actuarial experience study for the period from July 1, 2016 through June 30, 2020, 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)	Update to PUB2010 public sector mortality tables. For future mortality improvements, replace load with a modified Mortality Improvement Scale MP-2020
Retirement Rates	Adjusted rates to better fit experience for Plan 1; set separate rates based on experience for Plan 2/Hybrid; changed final retirement age from 75 to 80 for all
Withdrawal Rates	Adjusted rates to better fit experience at each age and service decrement through 9 years of service
Disability Rates	No change
Salary Scale	No change
Line of Duty Disability	No change
Discount Rate	No change

Net Political Subdivision Employee VLDP OPEB Liability

The net OPEB liability (NOL) for the Political Subdivision Employee Virginia Local Disability Program represents the program's total OPEB liability determined in accordance with GASB Statement No. 74, less the associated fiduciary net position. As of June 30, 2021, NOL amounts for the VRS Political Subdivision Employee Virginia Local Disability Program is as follows (amounts expressed in thousands):

		Political Subdivision Employee VLDP OPEB Plan
Total Political Subdivision Employee VLDP OPEB Liability	\$	5,156
Plan Fiduciary Net Position		<u>6,166</u>
Political Subdivision Employee VLDP Net OPEB Liability (Asset)	\$	<u>(1,010)</u>
Plan Fiduciary Net Position as a Percentage of the Total Political Subdivision Employee VLDP OPEB Liability		119.59%

The total Political Subdivision Employee VLDP OPEB liability is calculated by the System's actuary, and the plan's fiduciary net position is reported in the System's financial statements. The net Political Subdivision Employee VLDP OPEB liability is disclosed in accordance with the requirements of GASB Statement No. 74 in the System's notes to the financial statements and required supplementary information.

Long-Term Expected Rate of Return

The long-term expected rate of return on VRS System investments was determined using a log-normal distribution analysis in which best-estimate ranges of expected future real rates of return (expected returns, net of VRS 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 target asset allocation and best estimate of arithmetic real rates of return for each major asset class are summarized in the following table:

<u>Asset Class (Strategy)</u>	<u>Target Allocation</u>	<u>Arithmetic Long-Term Expected Rate of Return</u>	<u>Weighted Average Long-Term Expected Rate of Return*</u>
Public Equity	34.00%	5.00%	1.70%
Fixed Income	15.00%	0.57%	0.09%
Credit Strategies	14.00%	4.49%	0.63%
Real Assets	14.00%	4.76%	0.67%
Private Equity	14.00%	9.94%	1.39%
MAPS - Multi-Asset Public Strategies	6.00%	3.29%	0.20%
PIP - Private Investment Partnership	<u>3.00%</u>	6.84%	<u>0.21%</u>
Total	<u>100.00%</u>		<u>4.89%</u>
	Inflation		<u>2.50%</u>
	*Expected arithmetic nominal return		<u>7.39%</u>

* The above allocation provides a one-year return of 7.39%. 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. These results provide a range of returns over various time periods that ultimately provide a median return of 6.94%, 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 at that time, providing a median return of 7.11%, including expected inflation of 2.50%.

Discount Rate

The discount rate used to measure the total Political Subdivision Employee VLDP OPEB was 6.75%. The projection of cash flows used to determine the discount rate assumed that employer contributions will be made in accordance with the VRS funding policy at rates equal to the actuarially determined contribution rates adopted by the VRS Board of Trustees. Through the fiscal year ending June 30, 2021, the rate contributed by the political subdivision for the VRS Political Subdivision Employee Virginia Local Disability Program 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, 2021 on, all agencies are assumed to continue to contribute 100% of the actuarially determined contribution rates. Based on those assumptions, the Political Subdivision Employee VLDP OPEB 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 Political Subdivision Employee VLDP OPEB liability.

Sensitivity of the Political Subdivision's Proportionate Share of the Political Subdivision Employee VLDP Net OPEB Liability to Changes in the Discount Rate

The following presents the political subdivision's proportionate share of the VRS Political Subdivision Employee Virginia Local Disability Program net VLDP OPEB liability using the discount rate of 6.75%, as well as what the political subdivision's proportionate share of the net VLDP 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:

	1.00% Decrease (5.75%)	Current Discount Rate (6.75%)	1.00% Increase (7.75%)
Covered Employers Proportionate Share of the VRS Political Subdivision Employee VLDP OPEB Plan Net OPEB Liability	\$ (264)	\$ (493)	\$ (691)

Political Subdivision Employee VLDP OPEB Fiduciary Net Position

Detailed information about the VRS Political Subdivision Employee Virginia Local Disability Program's Fiduciary Net Position is available in the separately issued VRS 2021 *Annual Comprehensive Financial Report (Annual Report)*. A copy of the 2021 VRS Annual Report may be downloaded from the VRS website at varetire.org/Pdf/Publications/2021-annual-report.pdf, or by writing to the System's Chief Financial Officer at P.O. Box 2500, Richmond, VA, 23218-2500.

14 Subsequent Events

Management has performed an analysis of the activities and transactions subsequent to June 30, 2022 to determine the need for any adjustments to and/or disclosures within the audited financial statements for the year ended June 30, 2022. Management has performed their analysis through August 31, 2022.

REQUIRED SUPPLEMENTARY INFORMATION

Roanoke River Service Authority

Schedule of Changes in the Political Subdivision's Net Pension Liability and Related Ratios

For the Plan Years Ended June 30

	<u>2021</u>	<u>2020</u>	<u>2019</u>	<u>2018</u>	<u>2017</u>	<u>2016</u>	<u>2015</u>	<u>2014</u>
Total pension liability								
Service cost	\$ 39,352	\$ 30,416	\$ 31,331	\$ 28,831	\$ 34,993	\$ 33,432	\$ 31,958	\$ 31,639
Interest	42,041	42,114	38,514	36,617	34,971	30,755	26,868	23,125
Changes in benefit terms	-	-	-	-	-	-	-	-
Difference between expected and actual experience	70,334	(50,367)	(3,505)	(36,994)	(14,932)	(2,646)	(1,988)	-
Changes of assumptions	28,037	-	22,230	-	(30,193)	-	-	-
Benefit payments	(18,132)	(28,358)	(1,364)	(1,336)	(1,319)	(1,318)	(1,296)	(1,278)
Net change in total pension liability	161,632	(6,195)	87,206	27,118	23,520	60,223	55,542	53,486
Total pension liability - beginning	631,894	638,089	550,883	523,765	500,245	440,022	384,480	330,994
Total pension liability - ending (a)	\$ 793,526	\$ 631,894	\$ 638,089	\$ 550,883	\$ 523,765	\$ 500,245	\$ 440,022	\$ 384,480
Plan fiduciary net position								
Contributions - employer	\$ 9,932	\$ 9,369	\$ 8,351	\$ 19,267	\$ 19,197	\$ 20,748	\$ 20,110	\$ 21,481
Contributions - employee	17,076	18,813	14,718	14,084	14,116	13,982	13,554	13,194
Net investment income	203,800	13,299	44,977	43,490	61,228	8,799	18,773	50,917
Benefit payments	(18,132)	(28,358)	(1,364)	(1,336)	(1,319)	(1,318)	(1,296)	(1,278)
Refunds of contributions	-	-	-	-	-	-	-	-
Administrator charges	(486)	(444)	(407)	(341)	(315)	(252)	(221)	(243)
Other	19	(16)	(29)	(40)	(56)	(3)	(5)	3
Net change in plan fiduciary net position	212,209	12,663	66,246	75,124	92,851	41,956	50,915	84,074
Plan fiduciary net position - beginning	728,795	716,132	649,886	574,762	481,911	439,955	389,040	304,966
Plan fiduciary net position - ending (b)	\$ 941,004	\$ 728,795	\$ 716,132	\$ 649,886	\$ 574,762	\$ 481,911	\$ 439,955	\$ 389,040
Political subdivision's net pension liability - ending (a-b)	\$ (147,478)	\$ (96,901)	\$ (78,043)	\$ (99,003)	\$ (50,997)	\$ 18,334	\$ 67	\$ (4,560)
Plan fiduciary net position as a percentage of the total Pension liability	118.59%	115.34%	112.23%	117.97%	109.74%	96.33%	99.98%	101.19%
Covered payroll	\$ 380,640	409,061	303,203	287,927	285,221	279,629	273,133	263,889
Political subdivision's net pension liability as a percentage of covered payroll	-38.74%	-23.69%	-25.74%	-34.38%	-17.88%	6.56%	0.02%	-1.73%

Roanoke River Service Authority

Schedule of Employer Contributions

Political Subdivisions Retirement Plan

For the Years Ended June 30, 2013 through 2022

Date	Contributions in Relation to			Employer's Covered Payroll (4)	Contributions as a % of Covered Payroll (5)
	Contractually Required Contribution (1)*	Contractually Required Contribution (2)*	Contribution Deficiency (Excess) (3)		
2022	\$ 14,152	\$ 14,152	\$ -	\$ 389,851	3.63%
2021	13,817	13,817	-	380,640	3.63%
2020	11,863	11,863	-	409,061	2.90%
2019	8,906	8,906	-	303,203	2.90%
2018	18,634	18,634	-	287,927	6.80%
2017	19,395	19,395	-	285,221	6.80%
2016	20,748	20,748	-	279,629	7.42%
2015	20,167	20,167	-	273,133	7.42%
2014	21,481	21,481	-	263,889	8.14%
2013	20,849	20,849	-	256,136	8.14%

*Includes contributions (mandatory and match on voluntary) to the defined contribution portion of the Hybrid plan.

For Reference Only:

Column 1 - Employer contribution rate multiplied by the employer's covered payroll

Column 2 - Employer contributions as referenced in Covered Payroll & Contributions report on VRS website

Column 4 - Employer's covered payroll amount for the fiscal year

Roanoke River Service Authority

Notes to Required Supplementary Information – VRS Pension

For the Year Ended June 30, 2022

Changes of benefit terms – There have been no actuarially material changes to the System benefit provisions since the prior actuarial valuation.

Changes of assumptions – The actuarial assumptions used in the June 30, 2020 valuation were based on the results of an actuarial experience study for the period from July 1, 2016 through June 30, 2020, 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:

All Others (Non 10 Largest) – Non-Hazardous Duty

Mortality Rates (Pre-retirement, post-retirement healthy, and disabled)	Update to PUB2010 public sector mortality tables. For future mortality improvements, replace load with a modified Mortality Improvement Scale MP-2020
Retirement Rates	Adjusted rates to better fit experience for Plan 1; set separate rates based on experience for Plan 2/Hybrid; changed finals retirement age
Withdrawal Rates	Adjusted rates to better fit experience at each year age and service through 9 years of service
Disability Rates	No change
Salary Scale	No change
Line of Duty Disability	No change
Discount Rate	No change

Roanoke River Service Authority

Schedule of Employer's Share of Net OPEB Liability Group Life Insurance Plan For the Measurement Dates of June 30, 2017 through 2021

	<u>2021</u>	<u>2020</u>	<u>2019</u>	<u>2018</u>	<u>2017</u>
Employer's Proportion of the Net GLI OPEB Liability (Asset)	0.00186%	0.00199%	0.00155%	0.00151%	0.00153%
Employer's Proportionate Share of the Net GLI OPEB Liability (Asset)	\$ 21,656	\$ 33,209	\$ 25,223	\$ 23,000	\$ 23,000
Employer's Covered Payroll	\$ 383,067	\$ 409,061	\$ 303,203	\$ 287,927	\$ 282,313
Employer's Proportionate Share of the Net GLI OPEB Liability (Asset) as a Percentage of its Covered Payroll	5.65%	8.12%	8.32%	7.99%	8.15%
Plan Fiduciary Net Position as a Percentage of the Total GLI OPEB Liability	67.45%	52.64%	52.00%	51.22%	48.86%

Schedule is intended to show information for 10 years. Since 2021 is the fifth year for this presentation, there are only five years available. However, additional years will be included as they become available.

For Reference Only

The Plan Fiduciary Net Position as a Percentage of the Total GLI OPEB Liability for the VRS Group Life Insurance Program for each year is presented on page 130 of the VRS 2021 Annual Report.

Roanoke River Service Authority

Schedule of Employer Contributions

Group Life Insurance OPEB Plan

For the Years Ended June 30, 2013 through 2022

Date	Contributions in Relation to			Employer's Covered Payroll (4)	Contributions as a % of Covered Payroll (5)
	Contractually Required Contribution (1)	Contractually Required Contribution (2)	Contribution Deficiency (Excess) (3)		
2022	\$ 2,105	\$ 2,105	\$ -	\$ 389,851	0.54%
2021	2,069	2,069	-	383,067	0.54%
2020	2,127	2,127	-	409,061	0.52%
2019	1,577	1,577	-	303,203	0.52%
2018	1,497	1,497	-	287,927	0.52%
2017	1,468	1,468	-	282,313	0.52%
2016	1,482	1,482	-	279,629	0.53%
2015	N/A	N/A	-	N/A	N/A
2014	N/A	N/A	-	N/A	N/A
2013	N/A	N/A	-	N/A	N/A

For Reference Only:

Column 1 - Employer contribution rate multiplied by the employer's covered payroll

Column 2 - Employer contributions as referenced in Covered Payroll & Contributions report on VRS website.

Column 4 - Employer's covered payroll amount of the fiscal year.

Roanoke River Service Authority

Notes to Required Supplementary Information – OPEB GLI

For the Year Ended June 30, 2022

Changes of benefit terms – There have been no actuarially material changes to the System benefit provisions since the prior actuarial valuation.

Changes of assumptions – The actuarial assumptions used in the June 30, 2020 valuation were based on the results of an actuarial experience study for the period from July 1, 2016 through June 30, 2020, 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:

General State Employees

Mortality Rates (Pre-retirement, post-retirement healthy, and disabled)	Update to PUB2010 public sector mortality tables. For future mortality improvements, replace load with a modified Mortality Improvement Scale MP-2020
Retirement Rates	Adjusted rates to better fit experience for Plan 1; set separate rates based on experience for Plan 2/Hybrid; changed final retirement age from 75 to 80 for all
Withdrawal Rates	Adjusted rates to better fit experience at each year age and service through 9 years of service
Disability Rates	No change
Salary Scale	No change
Line of Duty Disability	No change
Discount Rate	No change

Teachers

Mortality Rates (Pre-retirement, post-retirement healthy, and disabled)	Update to PUB2010 public sector mortality tables. For future mortality improvements, replace load with a modified Mortality Improvement Scale MP-2020
Retirement Rates	Adjusted rates to better fit experience for Plan 1; set separate rates based on experience for Plan 2/Hybrid; changed final retirement age from 75 to 80 for all
Withdrawal Rates	Adjusted rates to better fit experience at each age and service decrement through 9 years of service
Disability Rates	No change
Salary Scale	No change
Discount Rate	No change

SPORS Employees

Mortality Rates (Pre-retirement, post-retirement healthy, and disabled)	Update to PUB2010 public sector mortality tables. For future mortality improvements, replace load with a modified Mortality Improvement Scale MP-2020
Retirement Rates	Increased rates for ages 55 to 61, 63, and 64 with 26 or more years of service; changed final retirement age from 65 to 70
Withdrawal Rates	Decreased rate for 0 years of service and increased rates for 1 to 6 years of service
Disability Rates	No change
Salary Scale	No change
Line of Duty Disability	No change
Discount Rate	No change

VaLORS Employees

Mortality Rates (Pre-retirement, post-retirement healthy, and disabled)	Update to PUB2010 public sector mortality tables. For future mortality improvements, replace load with a modified Mortality Improvement Scale MP-2020
Retirement Rates	Increased rates at some younger ages, decreased at age 62, and changed final retirement age from 65 to 70
Withdrawal Rates	Adjusted rates to better fit experience at each year age and service through 9 years of service
Disability Rates	No change
Salary Scale	No change
Line of Duty Disability	No change
Discount Rate	No change

JRS Employees

Mortality Rates (Pre-retirement, post-retirement healthy, and disabled)	Review separately from State employees because exhibit fewer deaths. Update to PUB2010 public sector mortality tables. For future mortality improvements, replace load with a modified Mortality Improvement Scale MP-2020
Retirement Rates	Decreased rates for ages 60-66 and 70-72
Withdrawal Rates	No change
Disability Rates	No change
Salary Scale	Reduce increases across all ages by 0.50%
Discount Rate	No change

Largest Ten Locality Employers – General Employees

Mortality Rates (Pre-retirement, post-retirement healthy, and disabled)	Update to PUB2010 public sector mortality tables. For future mortality improvements, replace load with a modified Mortality Improvement Scale MP-2020
Retirement Rates	Adjusted rates to better fit experience for Plan 1; set separate rates based on experience for Plan 2/Hybrid; changed final retirement age from 75 to 80 for all
Withdrawal Rates	Adjusted rates to better fit experience at each age and service decrement through 9 years of service
Disability Rates	No change
Salary Scale	No change
Line of Duty Disability	No change
Discount Rate	No change

Non-Largest Ten Locality Employers – General Employees

Mortality Rates (Pre-retirement, post-retirement healthy, and disabled)	Update to PUB2010 public sector mortality tables. For future mortality improvements, replace load with a modified Mortality Improvement Scale MP-2020
Retirement Rates	Adjusted rates to better fit experience for Plan 1; set separate rates based on experience for Plan 2/Hybrid; changed final retirement age from 75 to 80 for all
Withdrawal Rates	Adjusted rates to better fit experience at each age and service decrement through 9 years of service
Disability Rates	No change
Salary Scale	No change
Line of Duty Disability	No change
Discount Rate	No change

Largest Ten Locality Employers – Hazardous Duty Employees

Mortality Rates (Pre-retirement, post-retirement healthy, and disabled)	Update to PUB2010 public sector mortality tables. Increased disability life expectancy. For future mortality improvements, replace load with a modified Mortality Improvement Scale MP-2020
Retirement Rates	Adjusted rates to better fit experience and changed final retirement age from 65 to 70
Withdrawal Rates	Decrease rates
Disability Rates	No change
Salary Scale	No change
Line of Duty Disability	No change
Discount Rate	No change

Non-Largest Ten Locality Employers – Hazardous Duty Employees

Mortality Rates (Pre-retirement, post-retirement healthy, and disabled)	Update to PUB2010 public sector mortality tables. Increased disability life expectancy. For future mortality improvements, replace load with a modified Mortality Improvement Scale MP-2020
Retirement Rates	Adjusted rates to better fit experience and changed final retirement age from 65 to 70
Withdrawal Rates	Decreased rates and changed from rates based on age and service to rates based on service only to better fit experience and to be more consistent with Locals Top 10 Hazardous Duty
Disability Rates	Adjusted rates to better match experience
Salary Scale	No change
Line of Duty Disability	No change
Discount Rate	No change

Roanoke River Service Authority

Schedule of Employer's Share of Net OPEB Liability Virginia Local Disability Program (VLDP) - Political Subdivisions For the Measurement Dates of June 30, 2017 through 2021

	<u>2021</u>	<u>2020</u>	<u>2019</u>	<u>2018</u>	<u>2017</u>
Employer's Proportion of the Net VLDP OPEB Liability (Asset)	0.04871%	0.04402%	0.01429%	0.01285%	0.00000%
Employer's Proportionate Share of the Net VLDP OPEB Liability (Asset)	\$ (493)	\$ 439	\$ 290	\$ -	-
Employer's Covered Payroll	\$ 195,611	\$ 164,065	\$ 42,500	\$ 32,000	-
Employer's Proportionate Share of the Net VLDP OPEB Liability (Asset) as a Percentage of its Covered Payroll	-0.25%	0.27%	0.68%	0.00%	0.00%
Plan Fiduciary Net Position as a Percentage of the Total VLDP OPEB Liability	119.59%	76.84%	49.19%	51.22%	38.40%

*Schedule is intended to show information for 10 years.
Since 2021 is the fifth year for this presentation, there are only five years available. However, additional years will be included as they become available.*

For Reference Only

The Plan Fiduciary Net Position as a Percentage of the Total OPEB Liability for the Virginia Local Disability (VLDP) for each year is presented on page 133 of the VRS 2021 Annual Report.

Roanoke River Service Authority

Schedule of Employer Contributions

Virginia Local Disability Program

For the Years Ended June 30, 2013 through 2022

Date	Contractually Required Contribution (1)	Contribution in Relation to Contractually Required Contribution (2)	Contribution Deficiency (Excess) (3)	Employer's Covered Payroll (4)	Contributions as a % of Covered Payroll (5)
2022	\$ 2,036	\$ 2,036	\$ -	\$ 245,239	0.83%
2021	1,624	1,624	-	195,611	0.83%
2020	1,181	1,181	-	164,065	0.72%
2019	306	306	-	42,500	0.72%
2018	187	187	-	32,000	0.60%
2017	N/A	N/A	N/A	N/A	N/A
2016	N/A	N/A	N/A	N/A	N/A
2015	N/A	N/A	N/A	N/A	N/A
2014	N/A	N/A	N/A	N/A	N/A
2013	N/A	N/A	N/A	N/A	N/A

For Reference Only

Column 1 – Employer contribution rate multiplied by the employer's covered payroll.

Column 2 –Actual employer contribution remitted to VRS

Column 4 - Employer's covered payroll amount for the fiscal year

Roanoke River Service Authority

Notes to Required Supplementary Information OPEB VLDP

For the Year Ended June 30, 2022

Changes of benefit terms – There have been no actuarially material changes to the System benefit provisions since the prior actuarial valuation.

Changes of assumptions – The actuarial assumptions used in the June 30, 2020 valuation were based on the results of an actuarial experience study for the period from July 1, 2016 through June 30, 2020, 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:

Non-Largest Ten Locality Employers - General and Non-Hazardous Duty Employees

Mortality Rates (Pre-retirement, post-retirement healthy, and disabled)	Update to PUB2010 public sector mortality tables. For future mortality improvements, replace load with a modified Mortality Improvement Scale MP-2020
Retirement Rates	Adjusted rates to better fit experience for Plan 1; set separate rates based on experience for Plan 2/Hybrid; changed final retirement age from 75 to 80 for all
Withdrawal Rates	Adjusted rates to better fit experience at each age and service decrement through 9 years of service
Disability Rates	No change
Salary Scale	No change
Line of Duty Disability	No change
Discount Rate	No change

OTHER INFORMATION

Roanoke River Service Authority

Revenue Bond Debt Service Coverage

Last Ten Fiscal Years

<u>Fiscal Years Ended June 30</u>	<u>Gross Revenues*</u>	<u>Direct Operating Expenses**</u>	<u>Net Available</u>	<u>Principal***</u>	<u>Interest</u>	<u>Total Debt</u>	<u>Coverage</u>
2022	\$ 1,944,512	\$ 1,452,410	\$ 492,102	\$ 205,534	\$ 240,896	\$ 446,430	1.10
2021	1,951,096	1,317,134	633,962	253,113	250,585	503,698	1.26
2020	1,885,028	1,440,803	444,225	298,238	262,726	560,964	0.79
2019	1,973,025	1,150,332	822,693	286,360	262,726	549,086	1.50
2018	1,968,774	1,095,089	873,685	275,308	285,910	561,218	1.56
2017	1,872,265	1,038,136	834,129	266,731	297,273	564,004	1.48
2016	1,866,890	980,039	886,851	225,247	292,034	517,281	1.71
2015	1,800,108	910,091	890,017	216,033	298,208	514,241	1.73
2014	1,690,973	909,417	781,556	231,370	310,372	541,742	1.44
2013	1,598,023	895,966	702,057	240,758	321,507	562,265	1.25

*Operating revenues and interest income.

**Excluding depreciation, interest, and amortization.

***Excludes debt refinancing payoffs.

COMPLIANCE



**INDEPENDENT AUDITOR'S REPORT ON INTERNAL CONTROL OVER FINANCIAL REPORTING
AND ON COMPLIANCE AND OTHER MATTERS BASED ON AN AUDIT OF FINANCIAL
STATEMENTS PERFORMED IN ACCORDANCE WITH GOVERNMENT AUDITING STANDARDS**

To the Board of Directors
Roanoke River Service Authority

We have audited, in accordance with the 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 *Specifications for Audits of Authorities, Boards, and Commissions*, issued by the Auditor of Public Accounts of the Commonwealth of Virginia, the financial statements of the business-type activities of Roanoke River Service Authority, as of and for the year ended June 30, 2022, and the related notes to the financial statements, which collectively comprise Roanoke River Service Authority's basic financial statements, and have issued our report thereon dated August 31, 2022.

Report on Internal Control over Financial Reporting

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

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

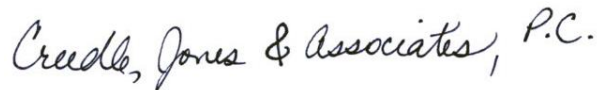
Our consideration of internal control was for the limited purpose described in the first paragraph of this section and was not designed to identify all deficiencies in internal control that might be material weaknesses or significant deficiencies. Given these limitations, during our audit, we did not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

Report on Compliance and Other Matters

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

Purpose of this Report

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



Creedle, Jones & Associates, P.C.
Certified Public Accountants

South Hill, Virginia
August 31, 2022