



**RAPIDAN SERVICE AUTHORITY**

**COMPREHENSIVE ANNUAL FINANCIAL REPORT  
YEARS ENDED DECEMBER 31, 2018 AND 2017**

**Serving Greene, Madison  
& Orange Counties, Virginia**



**RAPIDAN SERVICE AUTHORITY  
RUCKERSVILLE, VIRGINIA**

**COMPREHENSIVE ANNUAL FINANCIAL REPORT  
YEARS ENDED DECEMBER 31, 2018 AND 2017**

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**Serving Greene, Madison, and Orange Counties, Virginia**

**Prepared by the Accounting Department**



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# **RAPIDAN SERVICE AUTHORITY**

## **BOARD MEMBERS**

Greene County:	Ron Williams Matthew Woodson
Madison County:	Steve Hoffman, Chairman Troy Coppage
Orange County:	Lee Frame, Vice Chairman James "Jim" Crozier

## **OFFICERS**

Timothy L. Clemons, Secretary-Treasurer

Timothy L. Clemons, General Manager





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3489 GERMANNA HWY  
PO BOX 736  
LOCUST GROVE, VA 22508  
TEL 540-972-2133  
FAX 540-972-7065

*Serving the Counties of Greene, Madison and Orange*

April 2, 2019

TO: Greene County Board of Supervisors  
Madison County Board of Supervisors  
Orange County Board of Supervisors  
Towns of Gordonsville, Madison, Orange, and Stanardsville  
Citizens of Greene, Madison, Orange

As Chairman of Rapidan Service Authority (RSA) and representing its Board of Members, it gives me great pride to present you with our "Comprehensive Annual Financial Report" (CAFR) for the year ending 2018.

As you leaf through the report you will discover a wealth of information that is unlike the typical audit report prepared for a municipality. In addition to the various tables, charts and graphs found in this report, of special note is the letter of transmittal prepared by the General Manager and his staff that presents the highlights for the year. I call to your attention the Authority's perseverance through this economic downturn, the success of our construction programs and the maintenance of RSA's financial integrity. Another source of information that the reader will find valuable is the Management's Discussion and Analysis (MD&A) which immediately follows the Independent Auditor's Report.

Included in the report you will see the award of the Government Finance Officers Association's Certificate of Achievement for Excellence in Financial Reporting for RSA's 2017 CAFR. RSA has been a consistent recipient of this nationally recognized award. The value of this Certificate cannot be understated, as we have found, in securing funding for our construction programs. RSA shall also submit this report for consideration by GFOA. The Certificate is only valid for one (1) year and therefore each report must be reviewed annually.

I thank you for taking the time to review our CAFR and please feel free to forward any comments or questions to your representative on the Board of Members. You are invited to join us at any time at our regular monthly meetings.

Sincerely,

  
Steve Hoffman  
Chairman, Board of Members  
Rapidan Service Authority

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*Serving the Counties of Greene, Madison and Orange*

April 2, 2019

Board of Members  
Rapidan Service Authority  
Ruckersville, Virginia

The Comprehensive Annual Financial Report of the Rapidan Service Authority (“RSA” or “the Authority”) for the fiscal year ended December 31, 2018, is hereby submitted. This report has been prepared, on what we believe to be, in conformity with the reporting and accounting standards promulgated by the Government Finance Officers Association's (GFOA), Governmental Accounting, Auditing, and Financial Reporting for Enterprise Funds of Governmental Units, with such modifications as apply to our status as an independently chartered corporation.

Responsibility for both the accuracy of the data, and the completeness and fairness of the presentation, including all disclosures, rests with the Authority. To the best of our knowledge and belief, the enclosed information is accurate in all material respects and is reported in a manner designed to present fairly the financial position and results of operations of the Authority. All disclosures necessary to enable the reader to gain an understanding of the Authority's financial activities have been included.

I would also invite you to review the Management’s Discussion and Analysis (MD&A) immediately following the Independent Auditors’ Report. This analysis provides a narrative introduction, overview, and analysis of the basic financial statements. The MD&A complements this letter of transmittal and should be read in conjunction with it.

### **Organization**

RSA is organized under the auspices of Greene, Madison, and Orange Counties. Each County's Board of Supervisors appoints two representatives to serve on the RSA Board of Members. The Authority's chartered responsibility in its geographical area is the provision of water, sewer and solid waste services. These activities are reported in their entirety in this report.

The Authority has determined that it is a jointly governed organization of the Counties of Greene, Madison, and Orange. These governmental entities do not have an ongoing financial responsibility to the Authority. The Authority is perpetual and no participating government has access to either its resources or surpluses, nor is any participant liable for the Authority's debts or deficits. The Authority also has the ability to finance its capital projects through user charges or the sale of revenue bonds. The Authority is not a component unit of any of the participating governments.

## **Services Provided**

RSA provides service through approximately 329 miles of water and sewer mains along with eight water and wastewater treatment plants within its chartered service area. In Greene County, water service is available in and around the Ruckersville and Stanardsville areas. Sewer service is provided in the Town of Stanardsville and the surrounding area as well as the commercial area of Route 29 in Ruckersville. Water and sewer service in Madison County is available primarily within the Town limits and its immediate surroundings. In Orange County, RSA provides water service along Route 15 to the Town of Gordonsville and the Route 20 airport area. Sewer service is also available in the Town of Gordonsville. In the eastern end of Orange County, water and sewer service is provided in Lake of the Woods, Wilderness Shores, Somerset Farms and along the Route 3 corridor.

RSA maintains its water and sewer facilities through its own operation and maintenance program. Other responsibilities include constructing extensions, upgrading existing facilities, and inspecting water distribution and sewer collection systems installed by developers. RSA maintains all contributed and constructed facilities.

## **Economic Condition & Outlook**

The three Counties that comprise RSA's service area are typically rural with a majority of the population commuting to jobs outside of the Counties. All three counties are expected to see some future growth. The Weldon Cooper Center for Public Service is estimating a 21% increase in population from 2018 to 2030 for Greene County. It shows Madison County as having a 0% growth rate and Orange County, the largest county in RSA's service area, having a growth rate of 11% from 2018 to 2030.

## **Accounting and Budgetary Controls**

RSA maintains its accounting records on the accrual basis according to generally accepted accounting principles. Inherent in the Authority's accounting system is a system of strong internal controls. Internal accounting controls are designed to give reasonable, but not absolute assurance that:

- Assets are adequately safeguarded against loss from unauthorized use, and
- Financial records are reliable for preparing financial statements and maintaining accountability.

This concept of reasonable assurance for internal accounting control recognizes that the costs associated therein should not exceed the benefits and that the evaluation of the controls includes the judgment of management. We believe the Authority's internal accounting controls adequately safeguard assets and provide reasonable assurance of proper recording of financial transactions.

Budgetary control is exercised at the departmental level, with the understanding that budget amounts (both revenues and expenses) are projections of anticipated service levels; expenses over budget estimates are examined to ensure that they are properly related to the delivery level of Authority services in the applicable accounting period.

## **Relevant Financial Policies**

There were no financial policies that had a significant impact on our current period's financial statements, that hasn't had an impact on any other periods. With that said, the Authority's careful eye on spending and its enforcement of collection policies have helped minimize, to some degree, the effects of the poor economy all businesses and government agencies have been forced to face.

## **General Operations**

Water and sewer revenues make up 94% of the RSA's operating revenue in 2018. Water revenue rose 14% from 2017 and sewer revenue increased 5% from 2017. For the year, total operating revenue increased \$719,794 or 9% from 2017.

In 2018, RSA's operating expenses totaled approximately \$8.85 million. Operations and maintenance accounted for 58% of operating expenses, with depreciation representing 30% of the total and administration accounting for 12%. For the year, RSA's total operating expenses increased \$681 thousand, or 8% from 2017.

FY 2018, RSA incurred \$390,015 in operating loss as compared to an operating loss of \$428,859 in 2017.

## **Debt Administration**

Debt service coverage (gross revenue less direct operating expenses) was 1.99 times the annual debt service. Section 5.2 of the Authority's Revenue Bonds requires coverage of 1.15. Principal payments on long-term indebtedness of \$1,225,017 in FYE 2018 and \$1,252,103 in FYE 2017. Debt payments in 2018 totaled \$1,569,155. At December 31, 2018 long-term outstanding debt totaled \$8,261,256 which includes compensated absences.

## **Independent Audit**

State statutes and the Authority's bond documents require an annual audit by independent certified public accountants. The accounting firm of Robinson, Farmer, Cox Associates performed the audit for 2018. In addition to meeting the requirements set forth in state statutes, the audit also was designed to meet the requirements of the Uniform Guidance. Since the Authority was not the recipient of any Federal funds this year, a Single Audit was not required.

## **Certificate of Achievement for Excellence**

The Government Finance Officers Association of the United States and Canada (GFOA) awarded a Certificate of Achievement for Excellence in Financial Reporting to Rapidan Service Authority for its comprehensive annual financial report for the fiscal year ended December 31, 2017. RSA has received this prestigious award 34 of the last 35 years. In order to be awarded a Certificate of Achievement, a government must publish an easily readable and efficiently organized comprehensive annual financial report. This report must satisfy both generally accepted accounting principles and applicable legal requirements.

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

## Acknowledgments

I would like to thank the Board of Members for their dedicated and conscientious management of the Authority's operations; their efforts are reflected in the information that follows.

Respectfully submitted,

A handwritten signature in black ink that reads "Timothy L. Clemons GM/RSA". The signature is written in a cursive style with a large initial 'T'.

Timothy L. Clemons  
General Manager



Government Finance Officers Association

Certificate of  
Achievement  
for Excellence  
in Financial  
Reporting

Presented to

**Rapidan Service Authority**  
**Virginia**

For its Comprehensive Annual  
Financial Report  
for the Fiscal Year Ended

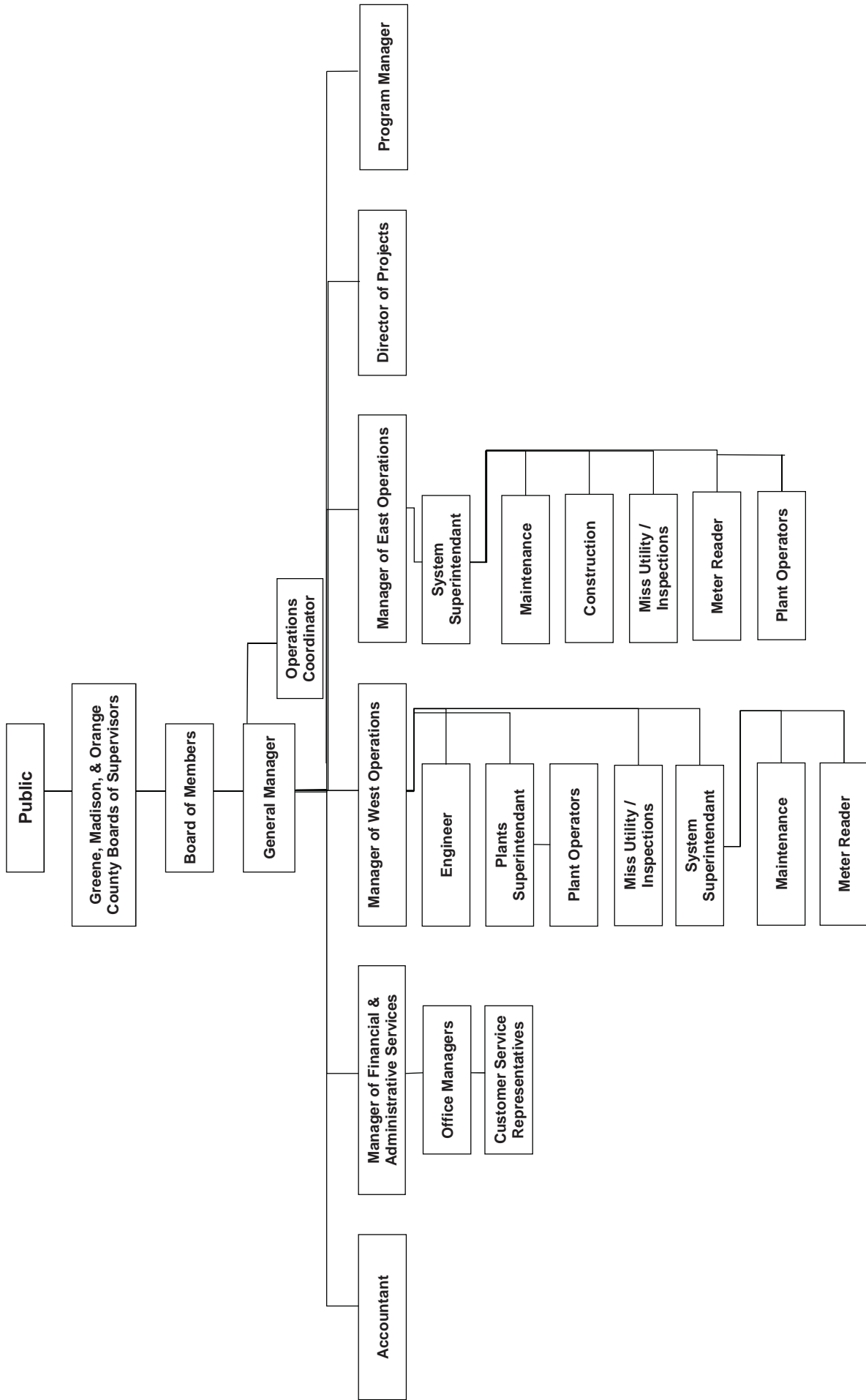
**December 31, 2017**

*Christopher P. Morill*

Executive Director/CEO

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## Independent Auditors' Report

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**To the Board of Directors  
Rapidan Service Authority  
Ruckersville, Virginia**

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

We have audited the accompanying financial statements of the business-type activities of Rapidan Service Authority as of and for the years ended December 31, 2018 and December 31, 2017, and the related notes to the financial statements, which collectively comprise the Authority's basic financial statements as listed in the table of contents.

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

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

### ***Auditors' Responsibility***

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

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

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

## ***Opinion***

In our opinion, the financial statements referred to above present fairly, in all material respects, the financial position of the business-type activities of Rapidan Service Authority, as of December 31, 2018 and 2017, and the changes in financial position, and cash flows thereof for the years then ended in accordance with accounting principles generally accepted in the United States of America.

## ***Other Matters***

### ***Required Supplementary Information***

Accounting principles generally accepted in the United States of America require that the management's discussion and analysis on pages 21-30 be presented to supplement the basic financial statements. Such information, although not a part of the basic financial statements, is required by the Governmental Accounting Standards Board, who considers it to be an essential part of financial reporting for placing the basic financial statements in an appropriate operational, economic, or historical context. We have applied certain limited procedures to the required supplementary information in accordance with auditing standards generally accepted in the United States of America, which consisted of inquiries of management about the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, the basic financial statements, and other knowledge we obtained during our audit of the basic financial statements. We do not express an opinion or provide any assurance on the information because the limited procedures do not provide us with sufficient evidence to express an opinion or provide any assurance.

### ***Supplementary and Other Information***

Our audit was conducted for the purpose of forming an opinion on the financial statements that collectively comprise the Rapidan Service Authority's basic financial statements. The introductory section, other supplementary information and statistical section, are presented for purposes of additional analysis and are not a required part of the basic financial statements.

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

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

## **Other Reporting Required by *Government Auditing Standards***

In accordance with *Government Auditing Standards*, we have also issued our report dated March 15, 2019, on our consideration of the Rapidan 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 Rapidan 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 Rapidan Service Authority's internal control over financial reporting and compliance.

*Robinson, Farmer Cox Associates*

(Charlottesville, Virginia)

March 15, 2019

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# Management's Discussion and Analysis

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## To the Board of Members Rapidan Service Authority

As management of the Rapidan Service Authority ("RSA" or "the Authority"), we offer readers of our financial statements this narrative, overview and analysis of the financial activities of the Authority for the fiscal year ended December 31, 2018. We encourage readers to consider the information presented here in conjunction with additional information that we have furnished in our letter of transmittal, which can be found on pages 9 through 12 of this report.

### Overview of the Financial Statements

This discussion and analysis is intended to serve as an introduction to the Authority's basic financial statements. Since the Authority is engaged only in business-type activities, its basic financial statements are comprised of only two components: 1) enterprise fund financial statements and 2) notes to the financial statements. This report also contains other supplementary information in addition to the basic financial statements themselves.

#### **Enterprise fund financial statements**

The enterprise fund financial statements are designed to provide readers with a broad overview of the Authority's finances, in a manner similar to a private-sector business.

The *Statement of Net Position* presents information on the Authority's assets and liabilities, with the difference between the two reported as net position. Over time, increases or decreases in net position may serve as a useful indicator of whether the financial position of the Authority is improving or deteriorating.

The *Statement of Revenues, Expenses and Changes in Net Position* presents information showing how the Authority's net position changed during the most recent fiscal year. All changes in net position are reported as soon as the underlying event, giving rise to the change occurs, regardless of the timing of the cash flows. Thus, revenues and expenses are reported in this statement for some items that will only result in cash flows in future fiscal periods, (e.g. earned but unused vacation leave).

The basic enterprise fund financial statements can be found on pages 33 through 36 of this report.

#### **Notes to Financial Statements**

The notes provide additional information that is essential to a full understanding of the data provided in the financial statements. The Notes to the Financial Statements can be found on pages 37 through 55 of this report. Note 5 presents certain required supplementary information concerning the Authority's progress in funding its obligation to provide pension benefits to its employees.

## Financial Highlights

- The assets of the Authority exceeded its liabilities at the close of the most recent fiscal year by \$57,910,538 (net position). Of this amount \$8,519,914 (unrestricted net position) may be used to meet the Authority's ongoing obligations to customers and creditors.
- The Authority's total net position increased by \$472,254.
- The Authority's restricted assets increased \$31.78 thousand to \$515.1 thousand during the current fiscal year.

## Financial Analysis

### Net Position

The Authority's net position increased by \$472 thousand during the fiscal year 2018, which represents a 0.8% increase from the prior fiscal year ending net position. At December 31, 2018, total net position was \$57.91 million as compared to \$57.44 million the previous year.

#### Condensed Statements of Net Position

	<u>2018</u>	<u>2017</u>	<u>Increase (Decrease)</u>	<u>% Change</u>
Current and other assets	\$ 10,143,277	\$ 9,463,520	\$ 679,757	7.2 %
Capital assets	<u>57,238,762</u>	<u>58,406,895</u>	<u>(1,168,133)</u>	<u>(2.0)</u>
Total assets	<u>\$ 67,382,039</u>	<u>\$ 67,870,415</u>	<u>\$ (488,376)</u>	<u>(0.7)</u>
Deferred charge on refunding	<u>\$ 86,524</u>	<u>\$ 114,913</u>	<u>\$ (28,389)</u>	<u>(24.7)</u>
Total deferred outflows of resources	<u>\$ 86,524</u>	<u>\$ 114,913</u>	<u>\$ (28,389)</u>	<u>(24.7)</u>
Total assets and deferred outflows of resources	<u>\$ 67,468,563</u>	<u>\$ 67,985,328</u>	<u>\$ (516,765)</u>	<u>(0.8) %</u>
Long-term liabilities outstanding	\$ 7,597,003	\$ 8,214,077	\$ (617,074)	(7.5) %
Other liabilities	<u>1,961,022</u>	<u>2,332,967</u>	<u>(371,945)</u>	<u>(15.9)</u>
Total liabilities	<u>\$ 9,558,025</u>	<u>\$ 10,547,044</u>	<u>\$ (989,019)</u>	<u>(9.4)</u>
Net position:				
Net investment in capital assets	\$ 49,390,624	\$ 49,320,418	\$ 70,206	0.1
Unrestricted	<u>8,519,914</u>	<u>8,117,866</u>	<u>402,048</u>	<u>5.0</u>
Total net position	<u>\$ 57,910,538</u>	<u>\$ 57,438,284</u>	<u>\$ 472,254</u>	<u>0.8</u>
Total liabilities and net position	<u>\$ 67,468,563</u>	<u>\$ 67,985,328</u>	<u>\$ (516,765)</u>	<u>(0.8) %</u>



## Financial Analysis: (Continued)

The Authority's net position decreased by \$365 thousand during the fiscal year 2017, which represents a 0.6% decrease from the prior fiscal year ending net position. At December 31, 2017, total net position was \$57.44 million as compared to \$57.80 million the previous year.

### Condensed Statements of Net Position

	<u>2017</u>	<u>2016</u>	<u>Increase Increase (Decrease)</u>	<u>% Change</u>
Current and other assets	\$ 9,463,520	\$ 8,666,209	\$ 797,311	9.2
Capital assets	<u>58,406,895</u>	<u>60,820,875</u>	<u>(2,413,980)</u>	<u>(4.0)</u>
Total assets	<u>\$ 67,870,415</u>	<u>\$ 69,487,084</u>	<u>\$ (1,616,669)</u>	<u>(2.3)</u>
Deferred charge on refunding	\$ 114,913	\$ 152,706	\$ (37,793)	(24.7)
Total deferred outflows of resources	<u>\$ 114,913</u>	<u>\$ 152,706</u>	<u>\$ (37,793)</u>	<u>(24.7)</u>
Total assets and deferred outflows of resources	<u>\$ 67,985,328</u>	<u>\$ 69,639,790</u>	<u>\$ (1,654,462)</u>	<u>(2.4)</u>
Long-term liabilities outstanding	\$ 8,214,077	\$ 9,476,907	\$ (1,262,830)	(13.3)
Other liabilities	<u>2,332,967</u>	<u>2,359,608</u>	<u>(26,641)</u>	<u>(1.1)</u>
Total liabilities	<u>\$ 10,547,044</u>	<u>\$ 11,836,515</u>	<u>\$ (1,289,471)</u>	<u>(10.9)</u>
Net position:				
Net investment in capital assets	\$ 49,320,418	\$ 50,463,803	\$ (1,143,385)	(2.3)
Unrestricted	<u>8,117,866</u>	<u>7,339,472</u>	<u>778,394</u>	<u>10.6</u>
Total net position	<u>\$ 57,438,284</u>	<u>\$ 57,803,275</u>	<u>\$ (364,991)</u>	<u>(0.6)</u>
Total liabilities and net position	<u>\$ 67,985,328</u>	<u>\$ 69,639,790</u>	<u>\$ (1,654,462)</u>	<u>(2.4)</u>

## **Financial Analysis: (Continued)**

### **Net investment in capital assets**

The Authority uses capital assets to provide services to its customers; consequently, these assets are not available for future spending. Although the Authority's investment in its capital assets is reported net of related debt, it should be noted that the resources needed to repay this debt must be provided from other sources, since the capital assets themselves cannot be used to liquidate these liabilities.

In a comparison of 2018-2017, the net position invested in capital assets, net of related debt was \$49.39 million at December 31, 2018 and represents 85% of total net position. The net position invested in capital assets decreased by 2.3% or \$70.2 thousand from 2017.

In a comparison of 2017-2016, the net position invested in capital assets, net of related debt was \$49.3 million at December 31, 2017 and represents 86% of total net position. The net position invested in capital assets increased by 0.1% or \$1.1 million from 2016.

### **Unrestricted net position**

Unrestricted net position is used by the Authority to finance day-to-day operations without restrictions established by debt covenants or other requirements. Unrestricted cash and investments consist of government securities, bank deposits and other cash-equivalents.

In a comparison of 2018-2017, unrestricted net position increased \$402 thousand during the fiscal year 2018 to \$8.52 million, an 5% increase from the prior year. Unrestricted net position is 15% of the total net position.

In a comparison of 2017-2016, unrestricted net position increased \$778 thousand during the fiscal year 2017 to \$8.12 million, an 10.6% increase from the prior year. Unrestricted net position is 14% of the total net position.

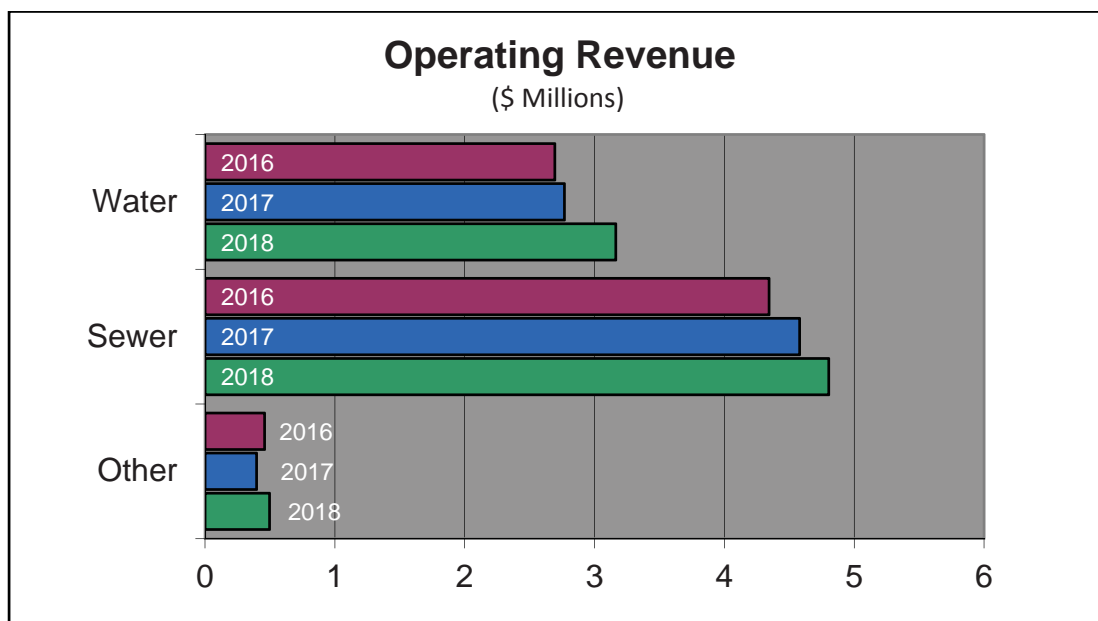
### **Changes in Revenues, Expenses & Changes in Net Position**

While the Statements of Net Position reflect the change in the Authority's financial position, the Statements of Revenues, Expenses and Changes in Net Position provide insight as to the nature and source of those changes. A comparison of the current fiscal year's actual and budgeted income is found on Schedule 1 under Supporting Schedules of the Financial Section.

## Financial Analysis: (Continued)

The following table summarizes changes in revenues and expenses between fiscal year 2018 and 2017.

	<b>Condensed Statements of Revenues, Expenses &amp; Change in Net Position</b>			
	<u>2018</u>	<u>2017</u>	<u>Increase (Decrease)</u>	<u>% Change</u>
<b>Revenues:</b>				
Operating revenues	\$ 8,464,477	\$ 7,744,683	\$ 719,794	9.3 %
Availability fees	990,000	540,200	449,800	83.3
Other revenue	328,068	233,697	94,371	40.4
Total revenues	<u>\$ 9,782,545</u>	<u>\$ 8,518,580</u>	<u>\$ 1,263,965</u>	<u>14.8</u>
<b>Expenses:</b>				
Operating expenses	\$ 6,212,000	\$ 5,493,518	\$ 718,482	13.1
Depreciation expense	2,642,492	2,680,024	(37,532)	(1.4)
Interest expense	344,138	390,655	(46,517)	(11.9)
Other	446,435	394,374	52,061	13.2
Total expenses	<u>\$ 9,645,065</u>	<u>\$ 8,958,571</u>	<u>\$ 686,494</u>	<u>7.7</u>
Income (loss) before capital contributions	\$ 137,480	\$ (439,991)	\$ 577,471	\$ (131.2)
Capital contributions	<u>\$ 334,774</u>	<u>\$ 75,000</u>	<u>\$ 259,774</u>	<u>\$ 346.4</u>
Increase (decrease) in net position	\$ 472,254	\$ (364,991)	\$ 837,245	(229.4)
Net position, beginning of year	57,438,284	57,803,275	(364,991)	(0.6)
Net position, end of year	<u>\$ 57,910,538</u>	<u>\$ 57,438,284</u>	<u>\$ 472,254</u>	<u>0.8 %</u>

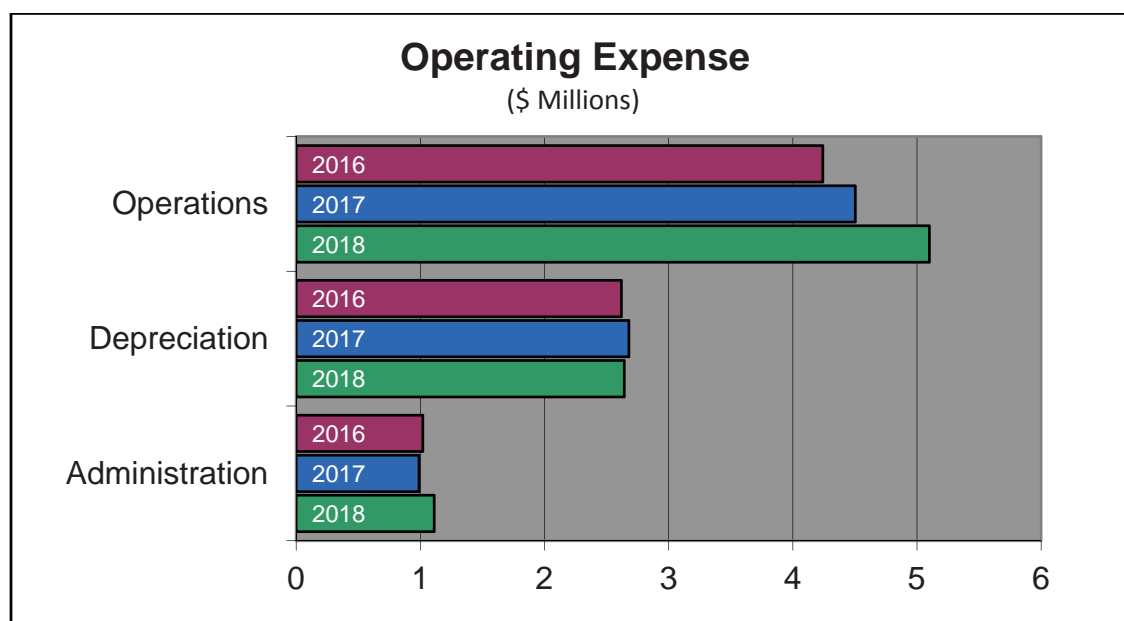


## Financial Analysis: (Continued)

The following table summarizes changes in revenues and expenses between fiscal year 2017 and 2016.

### Condensed Statements of Revenues, Expenses & Change in Net Position

	<u>2017</u>	<u>2016</u>	<u>Increase (Decrease)</u>	<u>% Change</u>
<b>Revenues:</b>				
Operating revenues	\$ 7,744,683	\$ 7,496,605	\$ 248,078	3.3 %
Availability fees	540,200	305,000	235,200	77.1
Other revenue	233,697	217,478	16,219	7.5
Total revenues	<u>\$ 8,518,580</u>	<u>\$ 8,019,083</u>	<u>\$ 499,497</u>	<u>6.2</u>
<b>Expenses:</b>				
Operating expenses	\$ 5,493,518	\$ 5,262,176	\$ 231,342	4.4
Depreciation expense	2,680,024	2,619,910	60,114	2.3
Interest expense	390,655	433,506	(42,851)	(9.9)
Other	394,374	370,002	24,372	6.6
Total expenses	<u>\$ 8,958,571</u>	<u>\$ 8,685,594</u>	<u>\$ 272,977</u>	<u>3.1</u>
Income (loss) before capital contributions	\$ (439,991)	\$ (666,511)	\$ 226,520	\$ (34.0)
Capital contributions	<u>\$ 75,000</u>	<u>\$ 851,006</u>	<u>\$ (776,006)</u>	<u>\$ (91.2)</u>
Increase (decrease) in net position	\$ (364,991)	\$ 184,495	\$ (549,486)	(297.8)
Net position, beginning of year	57,803,275	57,618,780	184,495	0.3
Net position, end of year	<u>\$ 57,438,284</u>	<u>\$ 57,803,275</u>	<u>\$ (364,991)</u>	<u>(0.6) %</u>



## **Financial Analysis: (Continued)**

### **Operating revenues**

Operating revenue consists of water and sewer service charges, penalties and late fees as well as other operating revenues.

In a comparison of 2018-2017, operating revenues increased by \$719.80 thousand or 9.3% to \$8.5 million. Water and sewer revenue increased \$620.1 thousand or 8% whereas other revenue, primarily new service installations, increased \$99.6 thousand or 25% from the year ending 2017.

In a comparison of 2017-2016, operating revenues increased by \$248 thousand or 3% to \$7.7 million. Water and sewer revenue increased \$309.4 thousand or 4% whereas other revenue, primarily new service installations, decreased \$61 or 13.4% from the year ending 2016.

### **Nonoperating revenues & capital contributions**

Nonoperating revenues consist of availability fees, investment income and other nonoperating revenues. Investments made by the Authority are tightly regulated as to the type of investments that can be made in the financial markets. Please see Note 6 in the Notes to Financial Statements for a discussion as to the statutes governing the investment of Authority funds. Capital contributions from developers include water and sewer mains, pump stations, and other infrastructure from developers and governmental entities. Contributions are recognized upon the assignment of the assets and fluctuations from year to year are due to the number of completed projects in a given year.

In a comparison of 2018-2017, other nonoperating revenue increased by \$94.4 thousand or 40.4% to \$328,068. Availability fees were up \$449.8 thousand or 83.3% to \$990 thousand. Capital contributions for 2018 totaled \$334.78 thousand, compared to \$75 thousand in 2017.

In a comparison of 2017-2016, other nonoperating revenue increased by \$16.2 thousand or 7.5% to \$233,697. Availability fees were up \$235 thousand or 77.1% to \$540 thousand. Capital contributions for 2017 totaled \$75 thousand, compared to \$851 thousand in 2016.

### **Operating & nonoperating expenses**

Operating expenses consist of personnel services, contractual services, materials and supplies, utilities, insurance and other operating expenses that keep the Authority running on a day to day basis. Nonoperating expenses consist of interest expense and other costs that are incurred that do not fall under operating expense. A comparison of the current fiscal year's actual and budgeted expenses is found on Schedule 2 under Supporting Schedules of the Financial Section.

## **Financial Analysis: (Continued)**

In a comparison of 2018-2017, operating expenses increased \$718.5 thousand or 13.1% to \$6.21 million at the end of 2018. Depreciation expense totaled \$2.64 million at the end of 2018. Interest expense was down \$46.5 thousand or -11.9% to \$344.1 thousand at year end.

In a comparison of 2017-2016, operating expenses increased \$231.3 thousand or 4.4% to \$5.49 million at the end of 2017. Depreciation expense totaled \$2.68 million at the end of 2017. Interest expense was down \$42.9 thousand or -9.9% to \$390.7 thousand at year end.

### **Capital assets**

The Authority's investment in capital assets consists of a broad range of capital assets, such as land, buildings, water and sewer lines, water storage facilities, water and wastewater plants as well as pump stations, machinery, equipment, computers and vehicles. More information on the Authority's capital assets is presented in Notes 7 and 8 of the Notes to the Financial Statements.

As of December 31, 2018, capital assets net of accumulated depreciation was \$57.2 million, a decrease of \$1.17 million or 2% from FYE 2017. As of December 31, 2017, capital assets net of accumulated depreciation was \$58.4 million, a decrease of \$2.4 million or 4% from FYE 2016.

The following table summarizes the Authority's capital assets, net of accumulated depreciation, and the changes therein for the years ended December 31, 2018 and 2017.

	<b>Capital Assets, Net of Accumulated Depreciation</b>			
	<b>2018</b>	<b>2017</b>	<b>Increase (Decrease)</b>	<b>% Change</b>
Land	\$ 1,117,306	\$ 1,117,306	\$ -	- %
Water and sewer systems	55,259,766	56,993,070	(1,733,304)	(3)
Buildings	121,125	131,382	(10,257)	(8)
Vehicles and equipment	278,254	77,014	201,240	261
Office equipment	46,295	31,525	14,770	47
Construction in progress	416,016	56,598	359,418	635
Total capital assets	<u>\$ 57,238,762</u>	<u>\$ 58,406,895</u>	<u>\$ (1,168,133)</u>	<u>(2) %</u>

## **Capital Assets and Debt Administration: (Continued)**

The following table summarizes the Authority's capital assets, net of accumulated depreciation, and the changes therein for the years ended December 31, 2017 and 2016.

	<b>Capital Assets, Net of Accumulated Depreciation</b>			
	<b>2017</b>	<b>2016</b>	<b>Increase (Decrease)</b>	<b>% Change</b>
Land	\$ 1,117,306	\$ 1,117,306	\$ -	- %
Water and sewer systems	56,993,070	59,368,896	(2,375,826)	(4)
Buildings	131,382	142,834	(11,452)	(8)
Vehicles and equipment	77,014	126,144	(49,130)	(39)
Office equipment	31,525	24,619	6,906	28
Construction in progress	56,598	41,076	15,522	38
<b>Total capital assets</b>	<b>\$ 58,406,895</b>	<b>\$ 60,820,875</b>	<b>\$ (2,413,980)</b>	<b>(4) %</b>

Major capital asset activity for the current fiscal year included:

### **Current Year Projects:**

	<b>2018</b>
East Sewer System Upgrades	\$ 374,447
East Water System Upgrades	211,133
Gordonsville Sewer System Upgrades	145,434

## **Long-Term Debt**

Long-term debt is used by the Authority to finance capital projects due to growth in the system, aging equipment and lines or changes in regulations. The Authority has several VRA bond issues outstanding which are rated A+ from Standard & Poor's. Other long-term obligations of the Authority include employee accrued leave. More detailed information on the Authority's long-term liabilities is presented in Note 4 of the Notes to the Financial Statements.

At the end of the current fiscal year, the Authority had \$7,934,662 in bonds and notes outstanding compared to \$9,201,390 last year, a 14% decrease.

## **Long-Term Trends:**

### **Connection Growth**

New water connections over the last 10 Fiscal Years are located in Table 7 of the Statistical Section of this report. The annual average growth of water customers has been 3% over this 10 year period.

## **Long-Term Trends: (Continued)**

### **Revenue and Expense Growth**

Presented in Tables 2, 3 and 4 of the Statistical Section is the trend information on Revenues and Operating Expenses. With the growth that has been seen over the last 10 years and the expected growth in the future, the Authority is diligent in anticipating the needs of its customers.

### **Long-Term Debt**

The Authority has been involved in major construction projects and has used long-term debt to finance the majority of its capital asset growth. The low interest rate environment and the ability of the Authority to participate in the state's loan and grant programs have resulted in low cost debt. Table 13, the Table of Pledged Revenue Coverage for the Last 10 Fiscal Years is presented in the Statistical Section. Bond Covenants require the Authority to maintain Debt Service Coverage Ratio of 1.15.

### **Cash and Cash Equivalents**

The Authority's use and management of its cash accounts are predicated on the following criteria: self-funding of smaller construction and of our larger operations and maintenance projects to reduce the Authority's dependency on the bond/loan market, a requisite operations and maintenance reserve fund, unforeseen contingencies, and finally, to enhance favorable financing terms with its creditors.

### **Requests for Information:**

This financial report is designed to provide a general overview of the Authority's finances. Questions concerning any of the information provided in this report or requests for additional financial information should be addressed to the Finance Department at P.O. Box 148, Ruckersville, Virginia 22968.



## **Basic Financial Statements**

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**RAPIDAN SERVICE AUTHORITY**

**Exhibit 1**

Statements of Net Position  
At December 31, 2018 and 2017

	<b>At December 31,</b>	
	<b>2018</b>	<b>2017</b>
<b>ASSETS</b>		
Current assets:		
Cash and cash equivalents	\$ 8,518,658	\$ 8,059,581
Accounts receivable (net of allowance for uncollectible accounts) (Note 2)	821,483	696,657
Inventory of materials and supplies, at cost	251,450	219,601
Prepaid items	36,580	4,355
Restricted current assets:		
Cash and cash equivalents (Note 6)	515,106	483,326
 Total current assets	 \$ 10,143,277	 \$ 9,463,520
Noncurrent assets:		
Capital assets: (Note 7)		
Land and improvements	\$ 1,117,306	\$ 1,117,306
Water and sewer system	98,261,236	97,415,869
Buildings	378,079	378,079
Vehicles and equipment	1,576,186	1,354,440
Office equipment	345,621	325,556
Accumulated depreciation	(44,855,682)	(42,240,953)
 Subtotal	 \$ 56,822,746	 \$ 58,350,297
Construction in progress (Note 8)	416,016	56,598
 Total net capital assets	 \$ 57,238,762	 \$ 58,406,895
 Total noncurrent assets	 \$ 57,238,762	 \$ 58,406,895
 Total assets	 \$ 67,382,039	 \$ 67,870,415
<b>DEFERRED OUTFLOWS OF RESOURCES</b>		
Deferred charge on refunding	\$ 86,524	\$ 114,913

Statements of Net Position  
At December 31, 2018 and 2017 (Continued)

	At December 31,	
	2018	2017
<b>LIABILITIES</b>		
Current liabilities:		
Accounts payable	\$ 369,141	\$ 183,180
Accrued payroll	36,324	30,396
Accrued payroll taxes	35,178	33,707
Retirement plan and benefits plan payable	11,071	12,303
Due to other governments	180,612	132,246
Unearned revenue	70,420	69,140
Accrued interest payable	78,917	90,896
Compensated absences - current portion (Note 4)	32,659	31,046
Current Liabilities (payable from restricted assets):		
Customer deposits	515,106	483,326
Bonds and note principal - current portion (Note 4)	631,594	1,266,727
Total current liabilities	<u>\$ 1,961,022</u>	<u>\$ 2,332,967</u>
Noncurrent liabilities:		
Compensated absences - noncurrent portion (Note 4)	\$ 293,935	\$ 279,414
Bonds and note principal - noncurrent portion (Note 4)	7,303,068	7,934,663
Total noncurrent liabilities	<u>\$ 7,597,003</u>	<u>\$ 8,214,077</u>
Total liabilities	<u>\$ 9,558,025</u>	<u>\$ 10,547,044</u>
<b>NET POSITION</b>		
Net investment in capital assets	\$ 49,390,624	\$ 49,320,418
Unrestricted	<u>8,519,914</u>	<u>8,117,866</u>
Total net position	<u>\$ 57,910,538</u>	<u>\$ 57,438,284</u>

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

Statements of Revenues, Expenses, and Changes in Net Position  
 Years Ended December 31, 2018 and 2017

	<b>Year Ended December 31,</b>	
	<b>2018</b>	<b>2017</b>
Operating revenues:		
Water Revenues	\$ 3,163,550	\$ 2,768,061
Sewer Revenues	4,803,738	4,579,082
Other Revenues	497,189	397,540
Total operating revenues	<u>\$ 8,464,477</u>	<u>\$ 7,744,683</u>
Operating expenses:		
Administrative	\$ 1,111,405	\$ 989,339
Operations and maintenance	5,100,595	4,504,179
Depreciation expense	2,642,492	2,680,024
Total operating expenses	<u>\$ 8,854,492</u>	<u>\$ 8,173,542</u>
Operating income (loss)	<u>\$ (390,015)</u>	<u>\$ (428,859)</u>
Nonoperating revenues (expenses):		
Interest income	\$ 127,736	\$ 37,807
Interest expense	(344,138)	(390,655)
Gain on disposal of assets	2,000	1,250
Lease revenue	198,332	194,640
Other income (expenses)	(446,435)	(394,374)
Availability fees	990,000	540,200
Total nonoperating revenues (expenses)	<u>\$ 527,495</u>	<u>\$ (11,132)</u>
Income (loss) before capital contributions	<u>\$ 137,480</u>	<u>\$ (439,991)</u>
Capital contributions	<u>\$ 334,774</u>	<u>\$ 75,000</u>
Change in net position	\$ 472,254	\$ (364,991)
Net position, beginning of year	<u>57,438,284</u>	<u>57,803,275</u>
Net position, end of year	<u><u>\$ 57,910,538</u></u>	<u><u>\$ 57,438,284</u></u>

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

**RAPIDAN SERVICE AUTHORITY**
**Exhibit 3**

## Statements of Cash Flows

Years Ended December 31, 2018 and 2017

	<b>Year Ended December 31,</b>	
	<b>2018</b>	<b>2017</b>
Cash flows from operating activities:		
Receipts from customers and users	\$ 8,339,651	\$ 7,792,239
Payments to suppliers	(4,376,862)	(3,945,259)
Payments to and on behalf of employees	(1,857,627)	(1,731,282)
Net cash provided by (used for) operating activities	<u>\$ 2,105,162</u>	<u>\$ 2,115,698</u>
Cash flows from capital and related financing activities:		
Purchases of capital assets	\$ (1,139,586)	\$ (191,044)
Proceeds from sale of assets	2,000	1,250
Principal payments on loans and bonds	(1,225,017)	(1,252,103)
Availability fees	990,000	540,200
Interest payments	(369,438)	(422,179)
Net cash provided by (used for) capital and related financing activities	<u>\$ (1,742,041)</u>	<u>\$ (1,323,876)</u>
Cash flows from investing activities:		
Interest income	\$ 127,736	\$ 37,807
Net cash provided by (used for) investing activities	<u>\$ 127,736</u>	<u>\$ 37,807</u>
Increase (decrease) in cash and cash equivalents	\$ 490,857	\$ 829,629
Cash and cash equivalents at beginning of year (including \$483,326 and \$480,606, respectively reported in restricted accounts)	<u>8,542,907</u>	<u>7,713,278</u>
Cash and cash equivalents at end of year (including \$515,106 and \$483,326 respectively reported in restricted accounts)	<u>\$ 9,033,764</u>	<u>\$ 8,542,907</u>
Reconciliation of operating income (loss) to net cash provided by (used for) operating activities:		
Operating income (loss)	\$ (390,015)	\$ (428,859)
Adjustments to reconcile operating income (loss) to net cash provided by (used for) operating activities:		
Depreciation expense	2,642,492	2,680,024
Lease revenue	198,332	194,640
Other income (expenses)	(446,435)	(394,374)
Changes in operating assets and liabilities:		
(Increase) decrease in accounts receivable	(124,826)	47,556
(Increase) decrease in prepaid items	(32,225)	21,653
(Increase) decrease in inventories	(31,849)	(36,891)
Increase (decrease) in compensated absences	16,134	4,930
Increase (decrease) in payables and accrued expenses	273,554	27,019
Net cash provided by (used for) operating activities	<u>\$ 2,105,162</u>	<u>\$ 2,115,698</u>
Supplemental Disclosure:		
Noncash investing, capital, and financing activities:		
Capital assets contributed	<u>\$ 334,774</u>	<u>\$ 75,000</u>

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

# RAPIDAN SERVICE AUTHORITY

Notes to Financial Statements  
At December 31, 2018 and 2017

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## **NOTE 1-BASIS OF PRESENTATION:**

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In the interest of efficient water quality management, the Authority is organized under the auspices of Greene, Madison, and Orange Counties as a jointly governed organization. The Authority is responsible for acquiring, financing, constructing and maintaining facilities for the improvement, treatment, storage and transmission of potable water, and for the interception, treatment and discharge of wastewater for the Counties.

### Financial Reporting Entity

The Rapidan Service Authority was established for the purposes stated above. The participating governments are the County of Greene, County of Madison, and County of Orange. These governmental entities do not have an ongoing financial responsibility to the Authority.

The Authority's governing body is composed of two members appointed by each of the Counties. Therefore, none of the participants appoints a voting majority of board members.

The Authority is perpetual and no participating government has access to its resources or surpluses, nor is any participant liable for the Authority's debts or deficits. The Authority also has the ability to finance its capital projects through user charges or the sale of revenue bonds.

Based on the above representations, the Rapidan Service Authority has been determined to be a jointly governed organization of the County of Greene, County of Madison, and County of Orange. The Authority is not a component unit of any of the participating governments.

## **NOTE 2-SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES:**

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Basis of Accounting - The accounts of the Rapidan Service Authority are maintained on the accrual basis of accounting. Under this method of accounting, revenues are recognized when earned and expenses are recorded as liabilities when incurred, without regard to receipt or payment of cash. All Authority budgets are prepared on the accrual basis.

Financial Reporting - The financial statements of the Authority are prepared as an "enterprise" commercial unit to conform to financial reporting practices as recommended in Water Utility Accounting published jointly by the Municipal Finance Officers Association and The American Water Works Association.

Budgetary Control - Although a budget is not legally required to be adopted, a fiscal year budget is prepared for management and fiscal planning purposes. The budget is adopted on a basis consistent with generally accepted accounting principles. Budgetary control is exercised at the departmental level. Any changes to the budget as adopted require Board approval.

## **RAPIDAN SERVICE AUTHORITY**

Notes to Financial Statements

At December 31, 2018 and 2017 (Continued)

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### **NOTE 2—SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES: (Continued)**

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#### Basic Financial Statements

The Authority is only engaged in business-type activities, it is required to present only the financial statements required for enterprise funds. For the Authority, the basic financial statements and required supplementary information consist of:

- Management’s Discussion and Analysis
- Enterprise fund financial statements
  - Statements of Net Position
  - Statements of Revenues, Expenses, and Changes in Net Position
  - Statements of Cash Flows
  - Notes to Financial Statements

Cash and Cash Equivalents - For purposes of the statement of cash flows, the Authority considers cash and cash equivalents to include cash on hand, cash on demand deposit and short-term investments purchased with an original maturity of three months or less.

Investments – Money market investments, participating interest-earning investment contracts (repurchase agreements) that have a remaining maturity at time of purchase of one year or less, nonparticipating interest-earning investment contracts (nonnegotiable certificates of deposit (CDS)) and external investment pools are measured at amortized cost. All other investments are reported at fair value. The Authority invests in the Local Government Investment Pool and the Virginia Investment Pool, all which are considered cash equivalents.

Accounts Receivable - Accounts receivable consist of water and sewer billings. The provision for uncollectibility was \$96,511 of gross receivables of \$917,994 in 2018 and \$66,013 of gross receivables of \$762,670 in 2017.

Capital Assets and Depreciation - Capital assets are defined by the Authority as assets with an initial and individual cost of more than \$1,000 and a useful life of over 2 years.



## RAPIDAN SERVICE AUTHORITY

Notes to Financial Statements

At December 31, 2018 and 2017 (Continued)

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### NOTE 2—SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES: (Continued)

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Depreciation of utility capital assets was computed by the straight-line method using the following estimated useful lives as a basis:

<u>Items</u>	<u>Years</u>
Source of supply structures	50
Water treatment building	50
Distribution reservoirs and standpipes	50
General structures and improvements	50
Water/sewer pumping equipment	10
Water treatment plant	20
Plastic mains and accessories	40
Transmission mains and accessories	66- 2/3
Services	33- 1/3
Meters	33- 1/3
Hydrant and accessories	66- 2/3
Office furniture and fixtures	10
Other general equipment	10
Motor vehicles	4

No depreciation is taken on assets in the year placed in service. Depreciation expense for the years ended December 31, 2018 and 2017 amounted to \$2,642,492 and \$2,680,024 respectively.

Legal Compliance - As required by Board resolution, the Authority maintains restricted cash funds to account for meter deposits. These accounts are disclosed in the Statement of Net Position.

The Borrower covenants and agrees that it will fix and collect rates, fees and other charges for the use of and for services furnished or to be furnished by the System, and will from time to time revise such rates, fees and other charges (so that in each Fiscal Year the Net Revenues Available for Debt Service will equal at least 115% of the amount required during the Fiscal Year to pay the principal of and interest on the Local Bonds and all other indebtedness of the Borrower) including, without limitation, indebtedness under leases which are treated as capital leases under generally accepted accounting principles, payable from Revenues. (If, for any reason, the revenues are insufficient to satisfy the foregoing covenant, the Borrower shall within ninety days adjust and increase its rates, fees and other charges or reduce its Operation and Maintenance Expenses so as to provide sufficient revenues to satisfy such requirement.)

"Net Revenues Available for Debt Service" means the revenues less amounts necessary to pay Operation and Maintenance Expenses.

# RAPIDAN SERVICE AUTHORITY

Notes to Financial Statements

At December 31, 2018 and 2017 (Continued)

## NOTE 2—SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES: (Continued)

“Operation and Maintenance Expenses” mean the costs of operating and maintaining the System determined under generally accepted accounting principles, exclusive of: (i) interest on any debt payable from Revenues, (ii) depreciation and other items not requiring the expenditure of cash, (iii) any amounts expended for capital replacements, repairs and maintenance not recurring annually or reserves therefore, and (iv) reserves for administration, operation and maintenance occurring in the normal course of business.

Proprietary funds distinguish *operating* revenues and expenses from *nonoperating* items. Operating revenues and expenses generally result from providing services and producing and delivering goods in connection with a proprietary fund’s principal ongoing operations. The principal operating revenues of the Authority are charges to customers for sales and services. The Authority recognizes availability fees as capital contributions. Operating expenses for enterprise funds include the cost of sales and services, administrative expenses, and depreciation on capital assets. All revenues and expenses not meeting this definition are reported as nonoperating revenues and expenses.

Interest on Indebtedness – Interest expense applicable to that portion of indebtedness, the proceeds of which are used to construct new facilities, is capitalized during the period of construction as part of the costs of such facilities. No interest was capitalized during 2018 nor 2017. Other interest costs of the Authority are treated as nonoperating expenses. All interest on indebtedness will be expensed as a nonoperating expense.

Prepaid Items – Certain payments to vendors reflect costs applicable to future accounting periods and are recorded as prepaid items in the enterprise fund financial statements.

Inventories - Inventories are stated at cost, and cost is determined on the first-in, first-out basis.

Bond Issuance Costs - Costs of issuing indebtedness are expensed when incurred.

Compensated Absences – For employees with 0-5 years of service, annual leave is accrued at the rate of one day per month and sick leave at ½ day per month. Employees with over 5 years of service receive 1-¼ days per month annual leave and .83 days per month sick leave. Sick leave max payout is 250 hours. Annual leave max payout is 480 hours. All leave is charged as an expense in the year earned.

<u>Liability For</u>	<u>2018</u>	<u>2017</u>
Annual Leave	\$ 205,043	\$ 196,469
Sick Leave	<u>121,551</u>	<u>113,991</u>
Total Compensated Absences	<u>\$ 326,594</u>	<u>\$ 310,460</u>

Restricted Assets – Certain resources of the Authority are set aside for the repayment of customer deposits and are classified as restricted assets on the Statement of Net Position because their use is limited by customers. Other assets are restricted as required per bond agreements.

## **RAPIDAN SERVICE AUTHORITY**

Notes to Financial Statements

At December 31, 2018 and 2017 (Continued)

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### **NOTE 2—SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES: (Continued)**

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#### Deferred Charge on Refunding:

In fiscal year 2018, the Authority amortized \$28,389 of deferred refunding on revenue bonds. The deferred charge on refunding remaining at December 31, 2018 is \$86,524.

#### Net Position:

Net Position is the difference between a) assets and deferred outflows of resources and b) liabilities and deferred inflows of resources. Net investment in capital assets represents capital assets, less accumulated depreciation, less any outstanding debt related to the acquisition, construction or improvement of those assets. Deferred outflows of resources and deferred inflows of resources that are attributable to the acquisition, construction, or improvement of those assets or related debt are also included in this component of net position.

#### Net Position Flow Assumption:

Sometimes the Authority will fund outlays for a particular purpose from both restricted (e.g., restricted bond) and unrestricted resources. In order to calculate the amounts to report as restricted - net position and unrestricted - net position, a flow assumption must be made about the order in which the resources are considered to be applied. It is the Authority's policy to consider restricted - net position to have been depleted before unrestricted - net position is applied.

#### Deferred Outflows/Inflows of Resources:

In addition to assets, the statement of financial position will sometimes report a separate section for deferred outflows of resources. This separate financial statement element, deferred outflows of resources, represents a consumption of net position that applies to a future period(s) and so will not be recognized as an outflow of resources (expense) until then. The Authority has one item that qualifies for reporting in this category. It is the deferred charge on refunding reported in the statement of net position. A deferred charge on refunding results from the difference in the carrying value of refunded debt and its reacquisition price. This amount is deferred and amortized over the shorter of the life of the refunded or refunding debt. For more detailed information on these items reference the related notes.

In addition to liabilities, the statement of financial position will sometimes report a separate section for deferred inflows of resources. This separate financial statement element, deferred inflows of resources, represents an acquisition of net position that applies to a future period(s) and so will not be recognized as an inflow of resources (revenue) until that time. The Authority does not have any deferred inflows of resources as of December 31, 2018 and 2017.

## RAPIDAN SERVICE AUTHORITY

Notes to Financial Statements

At December 31, 2018 and 2017 (Continued)

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### NOTE 3-UTILITY PLANT IN SERVICE:

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The Rapidan Service Authority has acquired the "capital assets" contained in its operating system from two different sources, contributions in aid of construction and projects financed by the Authority. Property, plant and equipment purchased are stated at historical cost. Donated property, works of art and similar items, and property received in a service concession arrangement are recorded at acquisition value prevailing at date of donation. In accordance with generally accepted accounting principles, it was necessary for the Authority to capitalize these expenditures and record depreciation on such assets over their useful lives. The value of the construction projects was ascertained from the accounting records.

However, the value of the contributions in aid of construction which consist of donations or contributions in cash, services or property from corporations, individuals and others for the construction and extension of water and sewer facilities was determined by the General Manager of the Authority with the assistance of the Authority's consulting engineers, using acquisition value at date of donation as basis for valuation.

### NOTE 4-LONG-TERM LIABILITIES:

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

<u>Year Ending</u> <u>December 31,</u>	<u>Revenue Bonds</u>		<u>Revenue Note</u>	
	<u>Principal</u>	<u>Interest</u>	<u>Principal</u>	<u>Interest</u>
2019	\$ 581,685	\$ 402,144	\$ 20,000	\$ -
2020	608,352	374,496	20,000	-
2021	635,019	344,801	20,000	-
2022	656,686	317,225	20,000	-
2023	683,355	288,033	-	-
2024-2028	2,361,709	966,397	-	-
2029-2033	1,765,000	438,031	-	-
2034	395,000	23,369	-	-
Total	\$ <u>7,686,806</u>	\$ <u>3,154,496</u>	\$ <u>80,000</u>	\$ <u>-</u>

## RAPIDAN SERVICE AUTHORITY

Notes to Financial Statements

At December 31, 2018 and 2017 (Continued)

### NOTE 4—LONG-TERM LIABILITIES: (Continued)

Long-term liabilities include the following at December 31:

	<u>2018</u>	<u>2017</u>
	<u>Principal</u>	<u>Principal</u>
Revenue Bonds:		
\$6,320,000 2009B revenue bonds, payable to Virginia Resources Authority in variable semi-annual installments of \$209,184 - \$251,171, bearing interest at a rate of 3.068% to 5.918% through 2034. The proceeds were used to finance construction of water and sewer system projects.	\$ 4,830,000	\$ 5,045,000
\$8,210,000 2009A revenue bonds, payable to Virginia Resources Authority in variable semi-annual installments of \$239,556 - \$243,098, bearing interest at a rate of 3.606% through 2025. The proceeds were used to advance refund the 2001 revenue bonds.	2,856,806	3,196,823
\$2,520,000 2008 revenue bonds, payable to Virginia Resources Authority in variable semi-annual installments of \$106,283 - \$153,124, bearing interest at a rate of 4.15% through 2018. The proceeds were used to advance refund the 1997 revenue bonds.	-	203,000
\$2,085,000 2013 revenue bonds, payable to Virginia Resources Authority in variable semi-annual installments of \$221,859 - \$229,369 through 2018, bearing interest at a rate of 2.082% to 3.125%. The proceeds were used to advance refund the 2002 revenue bonds.	-	445,000
\$6,555,000 2002 revenue bonds, payable to Virginia Resources Authority in variable semi-annual installments of \$490 - \$2,604 through 2018, bearing interest at a rate of 4.90% to 5.50%. The proceeds were used to advance refund the 1993 revenue bonds.	-	2,000
Premiums on Bonds Issued	167,856	209,567
Total revenue bonds	<u>\$ 7,854,662</u>	<u>\$ 9,101,390</u>
Revenue note—Virginia Resource Authority:		
\$400,000 note at a rate of 0% interest for 20 years	<u>\$ 80,000</u>	<u>\$ 100,000</u>
Compensated Absences	<u>\$ 326,594</u>	<u>\$ 310,460</u>
Total long-term obligations	<u><u>\$ 8,261,256</u></u>	<u><u>\$ 9,511,850</u></u>

# RAPIDAN SERVICE AUTHORITY

Notes to Financial Statements

At December 31, 2018 and 2017 (Continued)

## NOTE 4-LONG-TERM LIABILITIES: (Continued)

Changes in Long-term Liabilities for the years ended December 31, 2018 and 2017:

	<b>Balance</b>			<b>Balance</b>	<b>Amount</b>
	<b>January 1,</b>	<b>Increases/</b>	<b>Decreases/</b>	<b>December 31,</b>	<b>Due</b>
	<b>2018</b>	<b>Issuances</b>	<b>Retirements</b>	<b>2018</b>	<b>Within</b>
					<b>One Year</b>
Revenue Bonds	\$ 8,891,823	\$ -	\$ 1,205,017	\$ 7,686,806	\$ 581,685
Revenue Note	100,000	-	20,000	80,000	20,000
Compensated Absences	310,460	175,623	159,489	326,594	32,659
Totals	<u>\$ 9,302,283</u>	<u>\$ 175,623</u>	<u>\$ 1,384,506</u>	<u>\$ 8,093,400</u>	<u>\$ 634,344</u>
Premiums on Bonds Issued	<u>209,567</u>	<u>-</u>	<u>41,711</u>	<u>167,856</u>	<u>29,909</u>
Total obligations for financial statement presentation	<u>\$ 9,511,850</u>	<u>\$ 175,623</u>	<u>\$ 1,426,217</u>	<u>\$ 8,261,256</u>	<u>\$ 664,253</u>
	<b>Balance</b>			<b>Balance</b>	<b>Amount</b>
	<b>January 1,</b>	<b>Increases/</b>	<b>Decreases/</b>	<b>December 31,</b>	<b>Due</b>
	<b>2017</b>	<b>Issuances</b>	<b>Retirements</b>	<b>2017</b>	<b>Within</b>
					<b>One Year</b>
Revenue Bonds	\$ 10,123,926	\$ -	\$ 1,232,103	\$ 8,891,823	\$ 1,205,017
Revenue Note	120,000	-	20,000	100,000	20,000
Compensated Absences	305,530	166,357	161,427	310,460	31,046
Totals	<u>\$ 10,549,456</u>	<u>\$ 166,357</u>	<u>\$ 1,413,530</u>	<u>\$ 9,302,283</u>	<u>\$ 1,256,063</u>
Premiums on Bonds Issued	<u>265,852</u>	<u>-</u>	<u>56,285</u>	<u>209,567</u>	<u>41,710</u>
Total obligations for financial statement presentation	<u>\$ 10,815,308</u>	<u>\$ 166,357</u>	<u>\$ 1,469,815</u>	<u>\$ 9,511,850</u>	<u>\$ 1,297,773</u>

# RAPIDAN SERVICE AUTHORITY

Notes to Financial Statements

At December 31, 2018 and 2017 (Continued)

## NOTE 4—LONG-TERM LIABILITIES: (Continued)

The following is a summary of long-term liabilities accounts:

	<u>2018</u>	<u>2017</u>
Revenue Note Payable:		
Revenue Note	\$ 80,000	\$ 100,000
Less Current Portion	<u>(20,000)</u>	<u>(20,000)</u>
Long Term Revenue Note Payable	<u>\$ 60,000</u>	<u>\$ 80,000</u>
Revenue Bonds:		
2002 Series	\$ -	\$ 2,000
Unamortized Premium	-	-
Current Portion	<u>-</u>	<u>(2,000)</u>
Total	<u>\$ -</u>	<u>\$ -</u>
2009B Series	\$ 4,830,000	\$ 5,045,000
Unamortized Premium	76,066	84,576
Current Portion	<u>(225,000)</u>	<u>(215,000)</u>
Total	<u>\$ 4,681,066</u>	<u>\$ 4,914,576</u>
2009A Series	\$ 2,856,806	\$ 3,196,823
Unamortized Premium	91,790	116,470
Current Portion	<u>(356,685)</u>	<u>(340,017)</u>
Total	<u>\$ 2,591,911</u>	<u>\$ 2,973,276</u>
2013 Series	\$ -	\$ 445,000
Unamortized Premium	-	6,833
Current Portion	<u>-</u>	<u>(445,000)</u>
Total	<u>\$ -</u>	<u>\$ 6,833</u>
2008 Series	\$ -	\$ 203,000
Unamortized Premium	-	1,688
Current Portion	<u>-</u>	<u>(203,000)</u>
Total	<u>\$ -</u>	<u>\$ 1,688</u>

## **RAPIDAN SERVICE AUTHORITY**

Notes to Financial Statements  
At December 31, 2018 and 2017 (Continued)

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### **NOTE 4—LONG-TERM LIABILITIES: (Continued)**

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#### Prior-Years Defeasance of Debt:

In prior years, the Authority defeased certain general obligation and other bonds by placing the proceeds of new bonds in an irrevocable trust to provide for all future debt service payments on the old bonds. Accordingly, the trust account assets and the liability for the defeased bonds are not included in the Authority's financial statements. At December 31, 2018 and 2017, there were no bonds outstanding that are considered defeased.

#### (1) Assumption of Debt:

The Authority entered into an agreement dated December 5, 2005 with Greene County (the County). The agreement was effective January 1, 2006, whereby the County assumed a portion of the liabilities and debt payments of three different outstanding bonds. The County assumed 30.07% or \$1,373,250, of the 1997 VRA Water and Sewer Revenue Refunding Bonds plus interest payments totaling \$526,688. The County also assumed 33% or \$3,232,682, of the 2001 VRA Water and Sewer Revenue Bonds plus future interest payments totaling \$2,014,946. Lastly, the County assumed 5% or \$280,750, of the 2002 refunding VRA Water and Sewer Revenue Bonds in addition to \$93,315 of interest payments.

#### Other Postemployment Benefits

The Authority does not offer postemployment benefits to its employees and, therefore, has not recorded a liability for such benefits required to be reported under GASB 75.

#### Compliance with Legal Debt Coverage

Section 5.2 of the Authority's revenue bond agreements requires gross revenue less direct operating expenses over the annual debt service of 1.15. The Authority is in compliance as of December 31, 2018.

### **NOTE 5—RETIREMENT PLAN:**

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The Authority adopted the "Rapidan Service Authority Retirement Plan" a defined contribution retirement plan in January 1986 and rolled over to and is now administered by ICMA-RC beginning in 2004. The plan is open to all employees over the age of eighteen who have completed one full year of service. The Authority will match up to 6.0% of employee's regular earnings if the employee elects to make a contribution. Vesting begins after three years of service and employee accounts are fully vested after seven full years of service. The Authority has authorized the RSA Board to establish and amend all plan provisions.

The total payroll for all Rapidan Service Authority employees for 2018 and 2017 was \$1,879,928 and \$1,750,908. The payroll for those covered by the plan was \$1,217,934 and \$1,299,604.



## RAPIDAN SERVICE AUTHORITY

Notes to Financial Statements

At December 31, 2018 and 2017 (Continued)

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### NOTE 5—RETIREMENT PLAN: (Continued)

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The Rapidan Service Authority contributed \$65,180 for its covered employees or 5.35% of the covered payroll. The employees contributed \$86,674, or 7.12% of their covered payroll. Employees may elect to contribute in excess of 6.0% of their regular salaries (excluding overtime) although Rapidan Service Authority will not match that portion. There are no loans from the plan to the Authority.

<b>Plan Assets - ICMA-RC</b>	
Balance, January 1, 2018	\$ 2,542,666
Contributions:	
Employer	65,180
Employee	86,674
Plus:	
Unrealized gain (loss)	(216,473)
Less:	
Distributions	<u>(13,000)</u>
Balance, December 31, 2018	<u>\$ 2,465,047</u>

In 2017, the Rapidan Service Authority contributed \$61,020 for its covered employees or 4.70% of the covered payroll. The employees contributed \$99,113, or 7.63% of their covered payroll. Employees may elect to contribute in excess of 6.0% of their regular salaries (excluding overtime) although Rapidan Service Authority will not match that portion. There are no loans from the plan to the Authority.

<b>Plan Assets - ICMA-RC</b>	
Balance, January 1, 2017	\$ 2,703,690
Contributions:	
Employer	61,020
Employee	99,113
Plus:	
Unrealized gain (loss)	423,668
Less:	
Distributions	<u>(744,825)</u>
Balance, December 31, 2017	<u>\$ 2,542,666</u>

# RAPIDAN SERVICE AUTHORITY

Notes to Financial Statements  
At December 31, 2018 and 2017 (Continued)

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## NOTE 6-DEPOSITS AND INVESTMENTS:

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### Deposits

Deposits with banks are covered by the Federal Deposit Insurance Corporation (FDIC) and collateralized in accordance with the Virginia Security for Public Deposits Act (the “Act”) Section 2.2-4400 et. seq. of the Code of Virginia. Under the Act, banks and savings institutions holding public deposits in excess of the amount insured by the FDIC must pledge collateral to the Commonwealth of Virginia Treasury Board. Financial Institutions may choose between two collateralization methodologies and depending upon that choice, will pledge collateral that ranges in the amounts from 50% to 130% of excess deposits. Accordingly, all deposits are considered fully collateralized.

### Investments

Statutes authorize the Authority to invest in obligations of the United States or agencies thereof, obligations of the Commonwealth of Virginia or political subdivisions thereof, obligations of the International Bank for Reconstruction and Development (World Bank), the Asian Development Bank, the African Development Bank, “prime quality” commercial paper and certain corporate notes, banker’s acceptances, repurchase agreements and the State Treasurer’s Local Government Investment Pool (LGIP).

### Custodial Credit Risk (Investments)

The Authority does not have an investment policy addressing custodial credit risk.

The Authority’s investments at December 31, 2018 and 2017 were held by the Authority or in the Authority’s name by the Authority’s custodial banks.

### Credit Risk of Debt Securities

The Authority does not have an investment policy addressing credit risk of debt securities.

The Authority’s rated debt investments as of December 31, 2018 and 2017 were rated by Standard and Poor’s using Standard and Poor’s rating scale.

### Authority's Rated Debt Investments - 2018

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<u>Rated Debt Investments Value</u>	<u>Fair Quality Rating</u>	
	<u>AAAm</u>	<u>Aaf</u>
Local Government Investment Pool	\$ 3,362,098	\$ -
VACO/VML Virginia Investment Pool	-	4,602,531
Total	\$ <u>3,362,098</u>	\$ <u>4,602,531</u>

# RAPIDAN SERVICE AUTHORITY

Notes to Financial Statements

At December 31, 2018 and 2017 (Continued)

## NOTE 6-DEPOSITS AND INVESTMENTS: (Continued)

### Credit Risk of Debt Securities: (Continued)

<u>Authority's Rated Debt Investments - 2017</u>			
<u>Rated Debt Investments Value</u>	<u>Fair Quality Rating</u>		
	<u>AAAm</u>	<u>Aaf</u>	
Local Government Investment Pool	\$ 2,304,107	\$	-
VACO/VML Virginia Investment Pool	-		4,537,532
Total	\$ <u>2,304,107</u>	\$	<u>4,537,532</u>

### Interest Rate Risk

The Authority does not have a policy addressing interest rate risk.

<u>Investment Maturities - 2018*</u>			
<u>Investment Type</u>	<u>Fair Value</u>	<u>Less Than 1 Year</u>	<u>1-5 Years</u>
VACO/VML Virginia Investment Pool	\$ 4,602,531	\$ -	\$ 4,602,531
Local Government Investment Pool	<u>3,362,098</u>	<u>3,362,098</u>	<u>-</u>
Total	\$ <u>7,964,629</u>	\$ <u>3,362,098</u>	\$ <u>4,602,531</u>

\* Weighted average maturity in years

## RAPIDAN SERVICE AUTHORITY

Notes to Financial Statements

At December 31, 2018 and 2017 (Continued)

### NOTE 6-DEPOSITS AND INVESTMENTS: (Continued)

#### Interest Rate Risk

<b>Investment Maturities - 2017*</b>			
<b>Investment Type</b>	<b>Fair Value</b>	<b>Less Than 1 Year</b>	<b>1-5 Years</b>
VACO/VML Virginia Investment Pool	\$ 4,537,532	\$ -	\$ 4,537,532
Local Government Investment Pool	2,304,107	2,304,107	-
Total	\$ 6,841,639	\$ 2,304,107	\$ 4,537,532

\* Weighted average maturity in years

#### Fair Value Measurements

Fair value is the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date. The Authority has measured fair value of the Virginia Investment Pool at the net asset value (NAV).

#### External Investment Pools

The fair value of the positions in the Local Government Investment Pool (LGIP) is the same as the value of the pool shares. As this pool is not SEC registered, regulatory oversight of the pool rests with the Virginia State Treasury. LGIP is an amortized cost basis portfolio under the provisions of GASB Statement No 79. There are no withdrawal limitations or restrictions imposed on participants.

#### Restricted Cash and Cash Equivalents

Restricted cash and cash equivalents represents customer deposits.

# RAPIDAN SERVICE AUTHORITY

Notes to Financial Statements  
At December 31, 2018 and 2017 (Continued)

## NOTE 7—CAPITAL ASSETS:

Details of changes in capital assets for the year ended December 31, 2018 are as follows:

	<b>Balance January 1, 2018</b>	<b>Increases</b>	<b>Decreases</b>	<b>Balance December 31, 2018</b>
<b>Capital assets not being depreciated:</b>				
Land and improvements	\$ 1,117,306	\$ -	\$ -	\$ 1,117,306
Construction in progress	56,598	541,017	181,599	416,016
Total capital assets not being depreciated	<u>\$ 1,173,904</u>	<u>\$ 541,017</u>	<u>\$ 181,599</u>	<u>\$ 1,533,322</u>
<b>Capital assets, being depreciated:</b>				
Water system	\$ 33,869,307	\$ 545,907	\$ -	\$ 34,415,214
Accumulated depreciation	(18,211,270)	(875,612)	-	(19,086,882)
Total	<u>\$ 15,658,037</u>	<u>\$ (329,705)</u>	<u>\$ -</u>	<u>\$ 15,328,332</u>
Sewer system	\$ 63,546,562	\$ 299,460	\$ -	\$ 63,846,022
Accumulated depreciation	(22,211,529)	(1,703,059)	-	(23,914,588)
Total	<u>\$ 41,335,033</u>	<u>\$ (1,403,599)</u>	<u>\$ -</u>	<u>\$ 39,931,434</u>
Buildings	\$ 378,079	\$ -	\$ -	\$ 378,079
Accumulated depreciation	(246,697)	(10,257)	-	(256,954)
Total	<u>\$ 131,382</u>	<u>\$ (10,257)</u>	<u>\$ -</u>	<u>\$ 121,125</u>
Vehicles and equipment	\$ 1,354,440	\$ 249,510	\$ 27,764	\$ 1,576,186
Accumulated depreciation	(1,277,426)	(48,270)	(27,764)	(1,297,932)
Total	<u>\$ 77,014</u>	<u>\$ 201,240</u>	<u>\$ -</u>	<u>\$ 278,254</u>
Office equipment	\$ 325,556	\$ 20,065	\$ -	\$ 345,621
Accumulated depreciation	(294,031)	(5,295)	-	(299,326)
Total	<u>\$ 31,525</u>	<u>\$ 14,770</u>	<u>\$ -</u>	<u>\$ 46,295</u>
Capital assets, net	<u>\$ 58,406,895</u>	<u>\$ (986,534)</u>	<u>\$ 181,599</u>	<u>\$ 57,238,762</u>

# RAPIDAN SERVICE AUTHORITY

Notes to Financial Statements

At December 31, 2018 and 2017 (Continued)

## NOTE 7—CAPITAL ASSETS: (Continued)

Details of changes in capital assets for the year ended December 31, 2017 are as follows:

	<b>Balance January 1, 2017</b>	<b>Increases</b>	<b>Decreases</b>	<b>Balance December 31, 2017</b>
<b>Capital assets not being depreciated:</b>				
Land and improvements	\$ 1,117,306	\$ -	\$ -	\$ 1,117,306
Construction in progress	41,076	180,271	164,749	56,598
Total capital assets not being depreciated	<u>\$ 1,158,382</u>	<u>\$ 180,271</u>	<u>\$ 164,749</u>	<u>\$ 1,173,904</u>
<b>Capital assets, being depreciated:</b>				
Water system	\$ 33,629,558	\$ 239,749	\$ -	\$ 33,869,307
Accumulated depreciation	(17,327,502)	(883,768)	-	(18,211,270)
Total	<u>\$ 16,302,056</u>	<u>\$ (644,019)</u>	<u>\$ -</u>	<u>\$ 15,658,037</u>
Sewer system	\$ 63,546,562	\$ -	\$ -	\$ 63,546,562
Accumulated depreciation	(20,479,722)	(1,731,807)	-	(22,211,529)
Total	<u>\$ 43,066,840</u>	<u>\$ (1,731,807)</u>	<u>\$ -</u>	<u>\$ 41,335,033</u>
Buildings	\$ 378,079	\$ -	\$ -	\$ 378,079
Accumulated depreciation	(235,245)	(11,452)	-	(246,697)
Total	<u>\$ 142,834</u>	<u>\$ (11,452)</u>	<u>\$ -</u>	<u>\$ 131,382</u>
Vehicles and equipment	\$ 1,423,588	\$ -	\$ 69,148	\$ 1,354,440
Accumulated depreciation	(1,297,444)	(49,130)	(69,148)	(1,277,426)
Total	<u>\$ 126,144</u>	<u>\$ (49,130)</u>	<u>\$ -</u>	<u>\$ 77,014</u>
Office equipment	\$ 314,783	\$ 10,773	\$ -	\$ 325,556
Accumulated depreciation	(290,164)	(3,867)	-	(294,031)
Total	<u>\$ 24,619</u>	<u>\$ 6,906</u>	<u>\$ -</u>	<u>\$ 31,525</u>
Capital assets, net	<u><u>\$ 60,820,875</u></u>	<u><u>\$ (2,249,231)</u></u>	<u><u>\$ 164,749</u></u>	<u><u>\$ 58,406,895</u></u>

**RAPIDAN SERVICE AUTHORITY**

Notes to Financial Statements

At December 31, 2018 and 2017 (Continued)

**NOTE 8—CONSTRUCTION IN PROGRESS:**

Details of construction work in progress for the year ended December 31, 2018 are as follows:

Description	Balance January 1, 2018	Cost of Construction	Expense/ Transfer to Capital assets	Balance December 31, 2018
East Sewer System Upgrades	\$ 37,528	\$ 374,447	\$ 181,599	\$ 230,376
Greene Sewer Stanardsville	-	45,573	-	45,573
Greene Water	-	23,260	-	23,260
Route 15 Water System Infrastructure	19,070	-	-	19,070
Office Improvements	-	54,650	-	54,650
Madison Sewer	-	33,006	-	33,006
Computer Hardware and Software Upgrades	-	9,705	-	9,705
Greene Water Mains	-	376	-	376
Total	\$ 56,598	\$ 541,017	\$ 181,599	\$ 416,016

Details of construction in progress for the year ended December 31, 2017 are as follows:

Description	Balance January 1, 2017	Cost of Construction	Expense/ Transfer to Capital assets	Balance December 31, 2017
East Sewer System Upgrades	\$ 21,886	\$ 15,642	\$ -	\$ 37,528
Route 15 Water System Infrastructure	19,070	-	-	19,070
Matthew Mill 12" Water Main	120	99,369	99,489	-
East WTP Treatment Train	-	65,260	65,260	-
Total	\$ 41,076	\$ 180,271	\$ 164,749	\$ 56,598

**NOTE 9—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 carries commercial insurance for all of these risks of loss. Settled claims resulting from these risks have not exceeded commercial insurance coverage in any of the past three fiscal years.

## RAPIDAN SERVICE AUTHORITY

Notes to Financial Statements

At December 31, 2018 and 2017 (Continued)

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### NOTE 10—UNEARNED REVENUE:

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Unearned revenue consists of lease revenues that are paid in advance at year end.

<u>Source</u>	<u>2018</u>	<u>2017</u>
Water tower rental	\$ <u>70,420</u>	\$ <u>69,140</u>
Total	\$ <u><u>70,420</u></u>	\$ <u><u>69,140</u></u>

### NOTE 11—OPERATING LEASE AGREEMENTS:

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The Authority has several operating lease agreements with mobile communications companies for antennae-site rental space. All agreements are cancelable at any time by either party.

### NOTE 12—UPCOMING FINANCIAL REPORTING PRONOUNCEMENTS:

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Statement No. 83, *Certain Asset Retirement Obligations*, addresses accounting and financial reporting for certain asset retirement obligations (AROs). An ARO is a legally enforceable liability associated with the retirement of a tangible capital asset. A government that has legal obligations to perform future asset retirement activities related to its tangible capital assets should recognize a liability based on the guidance in this Statement. This Statement establishes criteria for determining the timing and pattern of recognition of a liability and a corresponding deferred outflow of resources for AROs. The requirements of this Statement are effective for reporting periods beginning after June 15, 2018.

Statement No. 87, *Leases*, increases the usefulness of governments' financial statements by requiring recognition of certain lease assets and liabilities for leases that previously were classified as operating leases and recognized as inflows of resources or outflows of resources based on the payment provisions of the contract. It establishes a single model for lease accounting based on the foundational principle that leases are financings of the right to use an underlying asset. Under this Statement, a lessee is required to recognize a lease liability and an intangible right-to-use lease asset, and a lessor is required to recognize a lease receivable and a deferred inflow of resources, thereby enhancing the relevance and consistency of information about governments' leasing activities. The requirements of this Statement are effective for reporting periods beginning after December 15, 2019.



## RAPIDAN SERVICE AUTHORITY

Notes to Financial Statements

At December 31, 2018 and 2017 (Continued)

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### **NOTE 12—UPCOMING FINANCIAL REPORTING PRONOUNCEMENTS: (CONTINUED)**

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Statement No. 88, *Certain Disclosures Related to Debt*, Including Direct Borrowings and Direct Placements, clarifies which liabilities governments should include when disclosing information related to debt. It defines debt for purposes of disclosure in notes to financial statements as a liability that arises from a contractual obligation to pay cash (or other assets that may be used in lieu of cash) in one or more payments to settle an amount that is fixed at the date the contractual obligation is established. The Statement requires that additional essential information related to debt be disclosed in notes to financial statements, including unused lines of credit; assets pledged as collateral for the debt; and terms specified in debt agreements related to significant events of default with finance-related consequences, significant termination events with finance-related consequences, and significant subjective acceleration clauses. For notes to financial statements related to debt, it requires that existing and additional information be provided for direct borrowings and direct placements of debt separately from other debt. The requirements of this Statement are effective for reporting periods beginning after June 15, 2018.

Statement No. 89, *Accounting for Interest Cost Incurred Before the End of a Construction Period*, enhances the relevance and comparability of information about capital assets and the cost of borrowing for a reporting period and simplifies accounting for interest cost incurred before the end of a construction period. Such interest cost includes all interest that previously was accounted for in accordance with the requirements of paragraphs 5-22 of Statement No. 62, *Codification of Accounting and Financial Reporting Guidance Contained in Pre-November 30, 1989 FASB and AICPA Pronouncements*, which are superseded by this Statement. This Statement requires that interest cost incurred before the end of a construction period be recognized as an expense in the period in which the cost is incurred for financial statements prepared using the economic resources measurement focus. As a result, interest cost incurred before the end of a construction period will not be included in the historical cost of a capital asset reported in a business-type activity or enterprise fund. This Statement also reiterates that in financial statements prepared using the current financial resources measurement focus, interest cost incurred before the end of a construction period should be recognized as an expenditure on a basis consistent with governmental fund accounting principles. The requirements of this Statement are effective for reporting periods beginning after December 15, 2019.

Management is currently evaluating the impact these standards will have on the financial statements when adopted.

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**Other Supplementary Information**

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## **Supporting Schedules**

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Comparative Schedule of Revenues--Budget and Actual  
 Years Ended December 31, 2018 and 2017

	2018			2017		
	Budget	Actual	Variance Favorable (Unfavorable)	Budget	Actual	Variance Favorable (Unfavorable)
Water Sales & Penalties	\$ 3,248,817	\$ 3,163,548	\$ (85,269)	\$ 2,722,305	\$ 2,768,061	\$ 45,756
Sewer Operations	5,034,241	4,803,737	(230,504)	4,289,145	4,579,081	289,936
Sale of Materials & Supplies	14,000	35,793	21,793	14,000	10,633	(3,367)
Maintenance Revenue	10,500	2,730	(7,770)	12,500	(588)	(13,088)
Inspection Fees	5,000	2,798	(2,202)	5,000	6,462	1,462
Miscellaneous/Other	170,300	120,420	(49,880)	130,900	129,291	(1,609)
Service Installations	147,300	228,240	80,940	136,080	177,350	41,270
Lake of The Woods Non-User Fees	113,280	107,211	(6,069)	116,500	74,393	(42,107)
<b>Totals</b>	<b>\$ 8,743,438</b>	<b>\$ 8,464,477</b>	<b>\$ (278,961)</b>	<b>\$ 7,426,430</b>	<b>\$ 7,744,683</b>	<b>\$ 318,253</b>

Comparative Schedule of Operating Expenses--Budget and Actual  
Years Ended December 31, 2018 and 2017

	2018			2017		
	Budget	Actual	Variance Favorable (Unfavorable)	Budget	Actual	Variance Favorable (Unfavorable)
<b>Administrative:</b>						
Personnel	\$ 616,983	\$ 588,995	\$ 27,988	\$ 557,717	\$ 556,790	\$ 927
Maintenance	21,700	33,627	(11,927)	21,700	22,570	(870)
Miscellaneous	100	434	(334)	100	250	(150)
Insurance	140,040	125,056	14,984	163,089	135,342	27,747
Billing and Collection	146,510	139,497	7,013	142,784	121,450	21,334
Audit and Consulting	25,000	25,807	(807)	25,000	23,770	1,230
Wtr/Swr Regulatory Fees	48,300	43,313	4,987	49,300	46,240	3,060
Legal/Bond/Bank Fees	23,100	49,904	(26,804)	32,200	17,079	15,121
Depreciation	19,736	19,736	-	19,502	19,502	-
Board Member Compensation	8,000	7,800	200	8,000	7,861	139
State Unemployment Tax	1,245	3,777	(2,532)	9,750	7,265	2,485
Training and Education	10,400	15,348	(4,948)	8,800	8,140	660
Office Supplies and Postage	9,500	10,220	(720)	9,000	5,910	3,090
Utilities	7,500	7,150	350	8,500	4,609	3,891
Communications	39,300	76,807	(37,507)	42,400	39,511	2,889
Advertising	1,100	931	169	1,700	922	778
Transportation Vehicle Expense	4,100	3,335	765	5,100	2,754	2,346
<b>Total Administrative</b>	<b>\$ 1,122,614</b>	<b>\$ 1,151,737</b>	<b>\$ (29,123)</b>	<b>\$ 1,104,642</b>	<b>\$ 1,019,965</b>	<b>\$ 84,677</b>
<b>Greene, Route 15 and Route 20</b>						
<b>Water Operations:</b>						
Operating Labor	\$ 250,834	\$ 236,213	\$ 14,621	\$ 283,753	\$ 239,391	\$ 44,362
Engineering and Design	49,426	20,913	28,513	54,190	21,776	32,414
Maintenance	271,000	166,455	104,545	194,800	269,277	(74,477)
Treatment Supplies and Materials	30,600	26,362	4,238	30,600	28,366	2,234
Vehicle Expense/Gas and Oil	11,700	6,915	4,785	6,500	5,704	796
Utilities	105,200	85,783	19,417	107,800	82,433	25,367
Purchased Water	283,756	371,947	(88,191)	271,476	253,738	17,738
Testing	39,000	7,964	31,036	15,000	9,802	5,198
Depreciation	489,553	489,553	-	485,191	485,191	-
<b>Total Greene, Route 15 and Route 20 Water Operations</b>	<b>\$ 1,531,069</b>	<b>\$ 1,412,105</b>	<b>\$ 118,964</b>	<b>\$ 1,449,310</b>	<b>\$ 1,395,678</b>	<b>\$ 53,632</b>
<b>Greene Sewer Operations:</b>						
Operating Labor	\$ 101,592	\$ 87,740	\$ 13,852	\$ 144,400	\$ 94,471	\$ 49,929
Engineering and Design	9,963	4,831	5,132	7,064	8,912	(1,848)
Maintenance	295,200	280,089	15,111	241,288	250,460	(9,172)
Treatment Supplies and Materials	24,000	25,712	(1,712)	26,000	14,423	11,577
Vehicle Expense/Gas & Oil	7,450	-	7,450	7,650	4,959	2,691
Utilities	100,000	92,691	7,309	90,000	88,248	1,752
Testing/Biosolids Mgmt	58,000	53,028	4,972	46,000	46,323	(323)
Depreciation	669,230	669,230	-	669,230	669,230	-
<b>Total Greene Sewer Operations</b>	<b>\$ 1,265,435</b>	<b>\$ 1,213,321</b>	<b>\$ 52,114</b>	<b>\$ 1,231,632</b>	<b>\$ 1,177,026</b>	<b>\$ 54,606</b>
<b>Madison Water &amp; Sewer Operations:</b>						
Operating Labor	\$ 123,494	\$ 141,617	\$ (18,123)	\$ 111,395	\$ 134,395	\$ (23,000)
Engineering and Design	1,101	1,685	(584)	2,852	909	1,943
Maintenance	70,000	56,788	13,212	74,266	63,760	10,506
Vehicle Expense/Gas & Oil	3,300	4,158	(858)	2,900	3,000	(100)
Utilities	38,000	36,511	1,489	41,500	33,118	8,382
Treatment Supplies & Materials	17,500	19,916	(2,416)	12,500	20,592	(8,092)
Testing Biosolids Mgmt	25,600	23,076	2,524	15,600	11,299	4,301
Depreciation	106,200	106,200	-	106,200	106,200	-
<b>Total Madison Water &amp; Sewer Operations</b>	<b>\$ 385,195</b>	<b>\$ 389,951</b>	<b>\$ (4,756)</b>	<b>\$ 367,213</b>	<b>\$ 373,273</b>	<b>\$ (6,060)</b>



Comparative Schedule of Operating Expenses--Budget and Actual  
Years Ended December 31, 2018 and 2017

	2018			2017		
	Budget	Actual	Variance Favorable (Unfavorable)	Budget	Actual	Variance Favorable (Unfavorable)
<b>Gordonsville Sewer Operations:</b>						
Operating Labor	\$ 84,259	\$ 56,590	\$ 27,669	\$ 79,323	\$ 48,722	\$ 30,601
Engineering and Design	6,000	3,323	2,677	2,843	5,252	(2,409)
Maintenance	82,500	119,027	(36,527)	83,000	47,953	35,047
Treatment Supplies & Materials	8,000	7,160	840	8,000	6,884	1,116
Vehicle Expense/Gas & Oil	2,500	4,213	(1,713)	3,000	1,935	1,065
Purchased Water	500	450	50	500	428	72
Utilities	50,000	47,679	2,321	52,000	46,437	5,563
Testing Biosolids Mgmt	13,000	15,424	(2,424)	13,000	12,564	436
Depreciation	89,064	89,064	-	99,795	99,795	-
<b>Total Gordonsville Sewer Operations</b>	<b>\$ 335,823</b>	<b>\$ 342,930</b>	<b>\$ (7,107)</b>	<b>\$ 341,461</b>	<b>\$ 269,970</b>	<b>\$ 71,491</b>
<b>Engineering:</b>						
Operating Labor	\$ 76,517	\$ 54,926	\$ 21,591	\$ 77,886	\$ 56,301	\$ 21,585
Engineering & Design	167,109	57,899	109,210	160,958	52,718	108,240
Maintenance	29,421	33,911	(4,490)	32,265	33,144	(879)
Vehicle Expense/Gas & Oil	5,000	5,933	(933)	5,000	5,797	(797)
Engineering Allocation	(197,472)	(92,186)	(105,286)	(191,450)	(87,776)	(103,674)
Depreciation	3,857	3,857	-	3,857	3,857	-
<b>Total Engineering</b>	<b>\$ 84,432</b>	<b>\$ 64,340</b>	<b>\$ 20,092</b>	<b>\$ 88,516</b>	<b>\$ 64,041</b>	<b>\$ 24,475</b>
<b>Maintenance:</b>						
Operating Labor	\$ 73,801	\$ 76,537	\$ (2,736)	\$ 66,319	\$ 49,614	\$ 16,705
Maintenance	154,181	142,470	11,711	146,462	100,798	45,664
Materials for Resale	8,300	20,430	(12,130)	8,300	7,220	1,080
Utilities	3,000	3,256	(256)	4,000	2,551	1,449
Vehicles	10,000	9,042	958	10,000	5,790	4,210
Gas and Oil	8,500	7,934	566	8,500	7,687	813
Maintenance Allocation	(136,768)	(127,933)	(8,835)	(136,322)	(91,666)	(44,656)
Depreciation	21,217	21,217	-	21,428	21,428	-
<b>Total Maintenance</b>	<b>\$ 142,231</b>	<b>\$ 152,953</b>	<b>\$ (10,722)</b>	<b>\$ 128,687</b>	<b>\$ 103,422</b>	<b>\$ 25,265</b>
<b>Orange East Water &amp; Sewer Operations:</b>						
Operating Labor	\$ 595,825	\$ 601,145	\$ (5,320)	\$ 556,813	\$ 501,425	\$ 55,388
Engineering and Design	61,802	15,618	46,184	60,219	10,363	49,856
Maintenance	899,100	865,770	33,330	629,500	792,688	(163,188)
New Service Installations	71,058	95,770	(24,712)	55,000	75,295	(20,295)
Treatment Supplies & Materials	395,800	451,727	(55,927)	395,800	346,958	48,842
Utilities	635,000	602,845	32,155	675,000	550,269	124,731
Vehicle Expense/Gas & Oil	61,000	65,258	(4,258)	62,000	58,555	3,445
Testing/Biosolids Mgmt	181,000	185,387	(4,387)	175,000	159,793	15,207
Depreciation	1,243,635	1,243,635	-	1,274,821	1,274,821	-
<b>Total Orange East Water &amp; Sewer Operation</b>	<b>\$ 4,144,220</b>	<b>\$ 4,127,155</b>	<b>\$ 17,065</b>	<b>\$ 3,884,153</b>	<b>\$ 3,770,167</b>	<b>\$ 113,986</b>
<b>TOTALS</b>	<b>\$ 9,011,019</b>	<b>\$ 8,854,492</b>	<b>\$ 156,527</b>	<b>\$ 8,595,614</b>	<b>\$ 8,173,542</b>	<b>\$ 422,072</b>

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## Statistical Section

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

### Contents

Financial Trends	Tables 1 through 5	Pages 67 through 71
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These schedules contain trend information to help the reader understand how the Authority's financial performance and well-being have changed over time as well as show how the revenue and expenses are split between the water and sewer departments.

Revenue Trends & Capacity	Tables 6 through 11	Pages 72 through 77
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These schedules contain trend information to help the reader assess the Authority's most significant revenue sources, user rates, and the growth in water and sewer connections.

Debt Service Trends & Capacity	Tables 12 through 13	Pages 78 through 79
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These schedules present trend information to help the reader assess the Authority's current levels of outstanding debt and the capacity to acquire additional debt with appropriate revenue coverage.

Demographic & Economic Information	Tables 14 through 16	Pages 80 through 82
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These schedules offer demographic and economic indicators for Greene, Madison and Orange Counties to help the reader understand the environment within which the Authority's financial activities take place.

Operating Information	Tables 17 through 18	Pages 83 through 84
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This schedule contains service and infrastructure data to help the reader understand how the information in the Authority's financial report relates to the services the Authority provides and the activities it performs.

### Sources:

Unless otherwise noted, the information in these schedules is derived from the audited financial reports for the relevant year.

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Net Position by Component  
Last Ten Fiscal Years

Primary Government	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Net investment in capital assets	\$ 45,240,778	\$ 49,500,023	\$ 50,346,770	\$ 49,790,065	\$ 49,986,063	\$ 51,164,310	\$ 50,848,315	\$ 50,463,803	\$ 49,320,418	\$ 49,390,624
Unrestricted	7,483,019	5,610,948	7,312,379	7,457,077	7,844,403	6,639,933	6,770,465	7,339,472	8,117,865	8,519,914
Total primary government net position	<u>\$ 52,723,797</u>	<u>\$ 55,110,971</u>	<u>\$ 57,659,149</u>	<u>\$ 57,247,142</u>	<u>\$ 57,830,466</u>	<u>\$ 57,804,243</u>	<u>\$ 57,618,780</u>	<u>\$ 57,803,275</u>	<u>\$ 57,438,283</u>	<u>\$ 57,910,538</u>

In 2013, financial reporting provisions of Statements No. 63 and No. 65 were implemented, resulted in terminology change of "net assets" to "net position" and reclassification of previously amortized bond issue costs.

Change in Net Position  
Last Ten Fiscal Years

<b>Fiscal Year</b>	<b>Operating Revenue</b>	<b>Operating Expenses</b>	<b>Total Nonoperating Revenues/ (Expenses)</b>	<b>Income/(Loss) before Capital Contributions</b>	<b>Capital Contributions</b>	<b>Change in Net Position</b>
2009	\$ 5,437,031	\$ 6,528,876	\$ (310,834)	\$ (1,402,679)	\$ 7,462,045	\$ 6,059,366
2010	6,269,011	6,725,418	(318,111)	(774,518)	3,161,692	2,387,174
2011	6,390,120	7,031,862	(332,533)	(974,275)	3,522,453	2,548,178
2012	6,450,275	7,107,963	360,936	(296,752)	4,850	(291,902)
2013	6,593,864	7,243,314	239,730	(409,720)	993,044	583,324
2014	6,737,237	7,759,575	(179,785)	(1,202,123)	1,175,900	(26,223)
2015	7,348,675	8,090,928	(443,866)	(1,186,119)	776,497	(409,622)
2016	7,496,605	7,882,086	(281,030)	(666,511)	851,006	184,495
2017	7,744,683	8,173,542	(11,132)	(439,991)	75,000	(364,991)
2018	8,464,477	8,854,492	527,495	137,480	334,774	472,254

In 2013, financial reporting provisions of Statements No. 63 were implemented, resulted in terminology change of "net assets" to "net position"

Operating Revenues by Source  
Last Ten Fiscal Years

<b>Fiscal Year</b>	<b>Water Revenue</b>	<b>Sewer Revenue</b>	<b>Other Revenue</b>	<b>Total</b>
2009	\$ 2,038,437	\$ 3,152,901	\$ 245,693	\$ 5,437,031
2010	2,166,557	3,820,481	281,973	6,269,011
2011	2,052,321	4,017,524	320,275	6,390,120
2012	2,095,689	4,048,524	306,062	6,450,275
2013	2,123,454	4,094,665	375,745	6,593,864
2014	2,181,735	4,201,611	353,891	6,737,237
2015	2,654,797	4,235,103	458,775	7,348,675
2016	2,694,009	4,343,752	458,844	7,496,605
2017	2,768,061	4,579,082	397,540	7,744,683
2018	3,163,550	4,803,738	497,189	8,464,477

Operating Expenses by Source  
Last Ten Fiscal Years

<u>Fiscal Year</u>	<u>Employment Costs</u>	<u>Operations</u>	<u>Utilities</u>	<u>Administrative</u>	<u>Subtotal, Expenses before Depreciation</u>	<u>Depreciation</u>	<u>Total Operating Expenses</u>
2009	\$ 2,359,208	\$ 1,176,517	\$ 813,577	\$ 359,190	\$ 4,708,492	\$ 1,820,384	\$ 6,528,876
2010	2,326,987	1,135,144	894,107	367,532	4,723,770	2,001,648	6,725,418
2011	2,265,372	1,461,874	877,649	395,658	5,000,553	2,031,309	7,031,862
2012	2,199,857	1,571,014	869,783	403,802	5,044,456	2,063,507	7,107,963
2013	2,211,987	1,804,649	847,372	416,670	5,280,678	1,962,636	7,243,314
2014	2,204,830	1,648,506	904,091	399,004	5,156,431	2,603,144	7,759,575
2015	2,292,486	1,746,612	955,282	429,054	5,423,434	2,667,494	8,090,928
2016	2,217,468	1,705,609	880,977	458,122	5,262,176	2,619,910	7,882,086
2017	2,264,856	1,993,057	807,665	427,940	5,493,518	2,680,024	8,173,542
2018	2,422,062	2,398,762	875,914	515,262	6,212,000	2,642,492	8,854,492



Nonoperating Revenues and Expenses  
Last Ten Fiscal Years

<u>Fiscal Year</u>	<u>Interest Earned</u>	<u>Interest Expense</u>	<u>Gain on Disposal of Assets</u>	<u>Other Costs</u>	<u>Other Income (Expenses)</u>	<u>Lease Revenue</u>	<u>Availability Fees</u>	<u>Total Nonoperating Income/(Expenses)</u>
2009	\$ 92,087	\$ (586,282)	\$ 9,500	\$ 29,809	\$ 15,658	\$ 128,394	\$ -	\$ (310,834)
2010	34,160	(591,840)	650	59,075	39,081	140,763	-	(318,111)
2011	58,734	(550,630)		57,081	(42,886)	145,168	-	(332,533)
2012	54,088	(749,829)	100	69,582	12,712	149,283	825,000	360,936
2013	32,711	(686,395)	250	21,477	(19,095)	153,282	737,500	239,730
2014	27,692	(598,304)	5,375	84,016	(29,008)	185,444	145,000	(179,785)
2015	25,101	(550,870)	-	76,385	(272,421)	187,939	90,000	(443,866)
2016	25,051	(433,506)	1,351	-	(370,002)	191,076	305,000	(281,030)
2017	37,807	(390,655)	1,250	-	(394,374)	194,640	540,200	(11,132)
2018	127,736	(344,138)	2,000	-	(446,435)	198,332	990,000	527,495

Availability Income prior to 2012-2013 is included in capital contributions.

Water Consumed and Wastewater Treated  
Last Ten Fiscal Years

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<u>Fiscal Year</u>	<u>Gallons of Water Purchased/ Treated (Millions)</u>	<u>Gallons of Wastewater Treated (Millions)</u>
2009	585.5	466.6
2010	638.0	454.2
2011	601.9	487.4
2012	603.0	473.5
2013	613.7	561.1
2014	621.6	507.6
2015	638.3	503.3
2016	626.3	464.4
2017	596.6	458.1
2018	628.0	615.4

Data internally compiled from Rapidan Service Authority.

Annual Number of EDU's Purchased  
Last Ten Fiscal Years

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<b>Fiscal Year</b>	<b>Water EDUs*</b>	<b>Sewer EDUs*</b>	<b>Total EDUs*</b>
2009	62	36	98
2010	16	43	59
2011	16	16	32
2012	37	38	75
2013	34	33	67
2014	32	34	66
2015	38	31	69
2016	56	74	130
2017	28	61	89
2018	51	50	101

\* Equivalent Dwelling Units

Data internally compiled from Rapidan Service Authority

Number of Water and Sewer Accounts by Type  
Last Ten Fiscal Years

Fiscal Year	Water										Total
	Residential					Non-Residential					
	Greene	Rte 15 G'ville	Rte 20	LOW / Wilderness	Madison	Greene	Rte 15 G'ville	Rte 20	LOW / Wilderness	Madison	
2009	2,327	94	133	4,262	175	271	19	12	69	109	7,471
2010	2,382	94	133	4,279	175	274	19	12	69	110	7,547
2011	2,424	96	133	4,291	176	274	19	12	69	110	7,604
2012	2,466	96	133	4,322	176	276	19	13	69	110	7,680
2013	2,488	96	133	4,378	177	277	19	13	71	110	7,762
2014	2,506	96	133	4,408	177	277	19	13	72	110	7,811
2015	2,526	96	133	4,445	177	278	20	13	72	112	7,872
2016	2,566	97	135	4,477	177	281	20	13	72	112	7,950
2017	2,585	97	135	4,528	177	281	20	13	72	112	8,020
2018	2,630	97	136	4,611	177	281	20	13	73	112	8,150

Fiscal Year	Sewer										Total
	Residential					Non-Residential					
	Greene	Rte 15 G'ville	Rte 20	LOW / Wilderness	Madison	Greene	Rte 15 G'ville	Rte 20	LOW / Wilderness	Madison	
2009	614	690	0	4,293	90	106	14	0	69	84	5,960
2010	666	690	0	4,310	90	109	14	0	69	84	6,032
2011	702	690	0	4,322	91	109	14	0	70	84	6,082
2012	733	690	0	4,353	91	111	14	0	70	84	6,146
2013	753	690	0	4,409	91	112	14	0	73	84	6,226
2014	771	690	0	4,440	91	112	14	0	74	84	6,276
2015	792	691	0	4,478	91	114	14	0	74	84	6,338
2016	835	717	0	4,510	91	117	14	0	74	84	6,442
2017	854	749	0	4,561	92	117	14	0	74	84	6,545
2018	862	749	0	4,644	92	117	14	0	75	84	6,637

Non-Users		
Fiscal Year	Greene County	LOW / Wilderness
2009	38	577
2010	36	574
2011	36	572
2012	36	569
2013	36	555
2014	36	539
2015	36	509
2016	36	483
2017	36	453
2018	36	442

Data internally compiled from Rapidan Service Authority

Water and Sewer Rates  
Last Ten Years

<b>Water Rate per 1,000 Gallons</b>										
	<b>2009</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>
Greene County	\$ 3.30	\$ 3.30	\$ 3.30	\$ 3.30	\$ 3.30	\$ 3.30	\$ 3.47	\$ 3.47	\$ 3.47	4.22
Rte 15	4.20	4.20	4.20	5.10	5.10	5.10	5.10	5.10	6.12	6.12
Rte 20	1.97	1.97	2.36	2.36	2.36	2.36	2.36	2.36	2.83	2.83
LOW/Wilderness	3.08	3.08	3.08	3.08	3.08	3.08	3.08	3.08	3.70	3.70
Madison County	3.85	3.85	3.85	3.85	4.62	5.08	5.59	5.59	5.59	8.27
Gordonsville (Contract)	3.15	3.06	3.26	3.83	3.83	4.30	4.30	4.30	5.16	5.55

<b>Sewer Rate per 1,000 Gallons</b>										
	<b>2009</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>
Greene County	\$ 7.24	\$ 7.60	\$ 7.98	\$ 7.98	\$ 7.98	\$ 7.98	\$ 8.38	\$ 8.38	\$ 8.38	8.78
Gordonsville	6.83	6.83	6.83	6.83	6.83	6.83	6.83	6.83	8.54	8.54
LOW/Wilderness	7.35	11.39	11.39	11.39	11.39	11.39	11.39	11.39	12.53	12.53
Madison County	7.20	7.20	7.20	7.20	8.64	9.50	10.45	10.45	10.45	16.35

Please see Table 10 for a full listing of RSA's current rates  
Data internally compiled from Rapidan Service Authority

Schedule of Rates  
At December 31, 2018

	<u>Water</u>		<u>Sewer</u>	
<b>Greene County Water &amp; Sewer Systems</b>				
Minimum Monthly Charge 0-2000 gal.	\$	11.44	\$	25.62
Rate Per 1000 Gallons	\$	4.22	\$	8.78
% of Water Usage				100%
Non-Residential (Existing Accounts Only)		150% of above rates		
Unmetered Accounts - Flat Fee			\$	60.74
Availability Fee Per EDU	\$	10,000.00	\$	10,000.00
Greene County Facility Fee - Res/NonRes	\$	20.00	\$	20.00
<b>Orange County, Rte. 15 Water System</b>				
Minimum Monthly Charge 0-2000 gal.	\$	15.24		
Rate Per 1000 Gallons:	\$	6.12		
Availability Fee Per EDU	\$	10,000.00		
Town of Gordonsville Wholesale Rate	\$	5.55		
<b>Orange County, Rte. 20 Water System</b>				
Minimum Monthly Charge 0-2000 gal.	\$	8.66		
Rate Per 1000 Gallons:	\$	2.83		
Availability Fee Per EDU	\$	10,000.00		
<b>Gordonsville Sewer System</b>				
Minimum Monthly Charge 0-2000 gal.			\$	20.08
Rate Per 1000 Gallons			\$	8.54
% of Water Usage				90%
Availability Fee Per EDU			\$	10,000.00
<b>Lake Of The Woods/Wilderness Water &amp; Sewer Systems</b>				
Minimum Monthly Charge 0-2000 gal. (Inside LOW)	\$	10.40	\$	42.06
Minimum Monthly Charge 0-2000 gal. (Outside LOW)	\$	10.40	\$	35.06
Rate Per 1000 Gallons	\$	3.70	\$	12.53
% of Water Usage				90%
Monthly Non-User Fee	\$	3.00	\$	17.00
Availability Fee Per EDU	\$	10,000.00	\$	10,000.00
Unmetered Accounts - Flat Fee (Inside LOW)			\$	87.17
Unmetered Accounts - Flat Fee (Outside LOW)			\$	80.17
<b>Madison Water &amp; Sewer Systems</b>				
Minimum Monthly Charge 0-2000 gal.	\$	19.54	\$	35.70
Rate Per 1000 Gallons	\$	8.27	\$	16.35
% of Water Usage				90%
Availability Fee Per EDU	\$	10,000.00	\$	10,000.00
Unmetered Accounts - Flat Fee			\$	94.56
<b>Summer Conservation Surcharge (All water systems)</b>				
Water billed for usage over 6000 gallons (July-October)		Additional \$1.00/1000 Gallons		

Five Largest Customers  
Current Year and Ten Years Ago

<b>2009</b>		
<b>Customer</b>	<b>Type</b>	<b>Annual Consumption</b>
Customer 1	Municipality	78,100,000
Customer 2	Nursing Home Facility	5,200,000
Customer 3	Commercial Complex	4,900,000
Customer 4	Public School System	4,500,000
Customer 5	Public School System	3,600,000
<b>2018</b>		
<b>Customer</b>	<b>Type</b>	<b>Annual Consumption</b>
Customer 1	Municipality	76,891,200
Customer 2	Nursing Home	4,048,800
Customer 3	Public School System	3,834,600
Customer 4	Public School System	3,218,700
Customer 5	Mobile Home Park	1,422,000

Data internally compiled from Rapidan Service Authority

Ratio of Outstanding Debt  
Last Ten Fiscal Years

<u>Fiscal Year</u>	<u>Revenue Bonds</u>	<u>Revenue Note</u>	<u>Premium on Bonds</u>	<u>Deferred Refunding</u>	<u>Total Debt (1)</u>	<u>Number of Accounts (2)</u>	<u>Debt per Account</u>
2009	\$ 18,076,291	\$ 260,000	\$ 719,939	\$ (675,650)	\$ 18,380,580	14,046	\$ 1,309
2010	17,022,260	240,000	645,316	(583,699)	17,323,877	14,239	1,217
2011	15,996,829	220,000	572,772	-	16,789,601	14,294	1,175
2012	14,933,733	200,000	503,189	-	15,636,922	14,431	1,084
2013	13,504,470	180,000	491,715	-	14,176,185	14,579	972
2014	12,399,206	160,000	407,699	-	12,966,905	14,662	884
2015	11,237,858	140,000	331,313	-	11,709,171	14,755	794
2016	10,123,926	120,000	265,852	-	10,243,926	14,911	687
2017	8,891,823	100,000	209,567	-	9,201,390	15,507	593
2018	7,686,806	80,000	167,856	-	7,934,662	15,718	505

Data internally compiled from Rapidan Service Authority

- (1) Does not include compensated absences
- (2) Accumulation of water, sewer and non-user accounts



Pledged-Revenue Coverage  
Last Ten Fiscal Years

<u>Period Ended December 31,</u>	<u>Gross Revenues (1)</u>	<u>Operating Expenses (2)</u>	<u>Available for Debt Service</u>	<u>Principal</u>	<u>Debt Service Requirements Interest (3)</u>	<u>Total</u>	<u>Coverage</u>
2009	\$ 6,486,581	\$ 4,678,683	\$ 1,807,898	\$ 827,658	\$ 586,282	\$ 1,413,940	1.28
2010	9,310,121	4,664,695	4,645,426	1,074,031	591,840	1,665,871	2.79
2011	7,917,296	4,943,472	2,973,824	1,045,431	550,630	1,596,061	1.86
2012	7,496,308	4,974,874	2,521,434	1,083,096	749,829	1,832,925	1.38
2013	7,962,556	5,259,201	2,703,355	1,409,264	686,395	2,095,659	1.29
2014	7,071,740	5,072,415	1,999,325	1,125,264	598,304	1,723,568	1.16
2015	7,379,294	5,347,049	2,032,245	1,181,348	550,870	1,732,218	1.17
2016	7,649,081	5,262,176	2,386,905	1,133,932	433,506	1,567,438	1.52
2017	8,124,206	5,493,518	2,630,688	1,252,103	390,655	1,642,758	1.60
2018	9,336,110	6,212,000	3,124,110	1,225,017	344,138	1,569,155	1.99

- (1) Includes availability fees & WQIF Grant funds received
- (2) Excludes depreciation
- (3) Interest does not include cip interest during construction

Demographic and Economic Statistics  
Last Ten Years

<b>Greene County</b>						
<b>Calendar Year</b>	<b>Population (1)</b>		<b>Per Capita Income</b>		<b>Total Personal Income (2)</b>	<b>Unemployment Rate (3)</b>
2009	18,237	\$	36,470	\$	665,105,000	5.9%
2010	18,457		37,330		688,998,000	6.1%
2011	18,669		39,271		733,150,000	5.3%
2012	18,771		40,880		767,362,000	4.9%
2013	19,320		42,112		791,878,000	3.4%
2014	19,618		not available		not available	4.2%
2015	19,840		36,873		701,736,000	3.0%
2016	19,785		39,681		760,363,000	2.9%
2017	19,985		40,175		778,226,000	3.5%
2018	19,959		43,055		844,388,000	2.6%

<b>Madison County</b>						
<b>Calendar Year</b>	<b>Population (1)</b>		<b>Per Capita Income</b>		<b>Total Personal Income (2)</b>	<b>Unemployment Rate (3)</b>
2009	13,358	\$	34,266	\$	457,724,000	0.0%
2010	13,289		34,697		461,095,000	0.0%
2011	13,171		37,558		494,674,000	4.8%
2012	13,200		39,696		523,987,000	4.8%
2013	13,333		40,197		530,597,000	3.5%
2014	13,353		not available		not available	3.8%
2015	13,099		41,194		541,990,000	2.9%
2016	13,099		43,773		574,942,000	2.7%
2017	13,190		47,435		620,349,000	3.2%
2018	13,278		47,022		624,316,000	2.5%

<b>Orange County</b>						
<b>Calendar Year</b>	<b>Population (1)</b>		<b>Per Capita Income</b>		<b>Total Personal Income (2)</b>	<b>Unemployment Rate (3)</b>
2009	33,329	\$	33,794	\$	1,126,317,000	0.0%
2010	33,553		34,618		1,161,546,000	0.0%
2011	33,922		35,906		1,217,991,000	0.0%
2012	34,246		37,141		1,271,937,000	0.0%
2013	34,143		38,149		1,323,344,000	5.1%
2014	34,487		not available		not available	5.3%
2015	34,015		39,190		1,372,657,000	4.0%
2016	33,777		42,166		1,492,044,000	3.7%
2017	34,521		43,679		1,552,063,000	4.4%
2018	35,582		46,293		1,669,934,000	3.3%

(1) Data compiled through the Weldon Cooper Center for Public Service and is subject to changes as estimates are refined  
 (2) Data compiled through the Bureau of Economic Analysis and is subject to change as estimates are refined  
 (3) Data compiled through the Virginia Employment Commission and is subject to changes as estimates are refined

Construction Permits  
Last Ten Calendar Years

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<b>Fiscal Year</b>	<b>Greene</b>	<b>Madison</b>	<b>Orange</b>
2009	101	42	82
2010	228	27	54
2011	83	31	71
2012	76	28	167
2013	76	31	109
2014	76	31	86
2015	98	45	93
2016	98	41	145
2017	67	67	181
2018	139	69	200

Data compiled from Greene, Madison and Orange Counties  
Includes Single Family Residences and Apartments

Principal Employers  
Current Year and Ten Years Ago

		2009		2018	
	Employer	# of Employees	Employer	# of Employees	
<b>Greene County</b>	Greene County School Board	500 - 999 Employees	Greene County School Board	250 - 499 Employees	
	County of Greene	100 - 249 Employees	Wal Mart	100 - 249 Employees	
	Evergreen Nursing Center	100 - 249 Employees	County of Greene	100 - 249 Employees	
	Lowe's Home Improvement	100 - 249 Employees	Lowe's Home Centers, Inc	100 - 249 Employees	
	Blue Ridge School	50 - 99 Employees	Grace Health & Rehab	100 - 249 Employees	
<b>Madison County</b>	1-800-Flowers	250 - 499 Employees	Madison County School Board	250 - 499 Employees	
	Madison County School Board	250 - 499 Employees	Plow & Hearth LLC	250 - 499 Employees	
	Woodberry Forest School	100 - 249 Employees	Woodberry Forest School	100 - 249 Employees	
	County of Madison	100 - 249 Employees	Autumn Corporation	100 - 249 Employees	
	Autumn Corporation	100 - 249 Employees	County of Madison	100 - 249 Employees	
<b>Orange County</b>	Orange County School Board	500 - 999 Employees	Orange County School Board	500 - 999 Employees	
	Von Holtzbrink Publishing	250 - 499 Employees	Samson Properties	500 - 999 Employees	
	County of Orange	250 - 499 Employees	MPS	250 - 499 employees	
	Germanna Community College	100 - 249 Employees	County of Orange	250 - 499 employees	
	Orange County Nursing Home	100 - 249 Employees	Germanna Community College	250 - 499 employees	

Data compiled through Virginia Employment Commission using 3rd quarter 2018 and 3rd quarter 2009 figures

Number of Employees by Identifiable Activity  
Last Ten Fiscal Years

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	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>
Plant Operators	14	14	14	14	15	17	15	14	14	14
Maintenance / Construction	18	18	18	18	15	14	14	13	14	14
Admin/Customer Service/Engineering	12	12	12	12	11	10	10	10	11	12
<b>Total</b>	<b>44</b>	<b>44</b>	<b>44</b>	<b>44</b>	<b>41</b>	<b>41</b>	<b>39</b>	<b>37</b>	<b>39</b>	<b>40</b>

Data internally compiled from Rapidan Service Authority

Operating and Capital Indicators  
Last Ten Fiscal Years

<b>Drinking Water</b>	<b>2009</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>
<b>Water Produced/Purchased (millions of gallons)</b>										
Greene	202.6	218.2	206.4	205.2	212.6	223.8	220.1	210.4	205.9	203.7
Rte. 15	103.1	113.7	96.2	101.5	99.2	98.0	110.7	101.1	81.0	108.3
Rte 20	7.8	7.7	7.6	7.3	7.2	6.9	7.4	6.5	6.7	7.8
LOW/Wilderness	244.5	270.2	264.0	262.0	265.6	268.3	231.5	282.5	274.8	280.1
Madison	27.5	28.2	27.7	27.0	29.1	24.6	25.9	25.8	28.2	28.1
<b>Water Storage Capacity (gallons)</b>										
Greene	2,512,000	2,512,000	2,512,000	2,512,000	2,512,000	2,512,000	2,512,000	2,512,000	2,512,000	2,512,000
Rte. 15/G'ville	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000
Rte 20	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000
LOW/Wilderness	1,050,000	1,050,000	1,050,000	1,050,000	1,050,000	1,050,000	1,050,000	1,050,000	1,050,000	1,050,000
Madison	500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000
<b>Miles of Water Mains</b>										
Greene	76	76	77	77	77	77	77	77	77	77
Rte. 15/G'ville	13	13	13	13	13	13	13	13	13	13
Rte. 20	5	5	5	5	5	5	5	5	5	5
LOW/Wilderness	71	71	71	71	73	73	73	73	73	73
Madison	8	8	8	8	8	8	8	8	8	8
<b>Number of Treatment Plants</b>	3	3	3	3	3	3	3	3	3	3
<b>Wastewater Treatment</b>										
<b>Miles of Sewer Line</b>										
Greene	40	40	42	42	42	42	42	42	42	42
Gordonsville	17	17	17	18	18	18	18	18	18	18
LOW/Wilderness	88	88	89	89	90	90	90	90	90	90
Madison	3	3	3	3	3	3	3	3	3	3
<b>Number of Treatment Plants</b>	5	5	5	5	5	5	5	5	5	5
<b>Amount Treated Annually (millions of gallons)</b>										
Greene	57.4	63.9	64.3	63.4	64.8	71.0	71.8	66.8	72.0	83.8
Gordonsville	142.7	115.0	116.5	111.4	155.3	126.6	126.0	112.1	87.0	200.9
LOW/Wilderness	247.3	257.9	287.3	282.5	321.9	291.9	282.9	260.2	273.6	295.8
Madison	19.2	17.4	19.3	16.2	19.1	18.1	22.6	25.3	25.1	34.7

Data internally compiled from Rapidan Service Authority

## **Fact Sheet**

The Rapidan Service Authority (RSA) presently employs 40 personnel and maintains two administrative offices. The West office is located on Route 33 in Ruckersville. Located on Route 3, the East office is one-half mile west of the Lake of the Woods subdivision. The General Manager's administrative staff includes a West Manager, East Manager, two (2) Office Managers, two (2) Customer Service Representatives, Accountant, and Financial and Administrative Services Manager. Engineering staff includes the Director of Projects and Engineering Technician. The West Manager and East Manager oversee the operations of all treatment facilities and the maintenance of the water and wastewater systems. RSA East and West maintain separate storage facilities for inventory and equipment.

In Greene County, RSA owns and operates the Greene Water Treatment Plant which has a capacity of 1,200,000 gallons per day (gpd) as well as a county-wide distribution system. The Lydia Springs were abandoned in 2009. The county-wide distribution system consists of five water storage tanks: a 1,000,000 gallon elevated tank on Preddy Creek Road, a 1,000,000 gallon steel ground tank located on Amicus Road west of Quinque, a 300,000 gallon steel ground storage tank on Gilbert Road, a 112,000 gallon concrete ground tank in Stanardsville, and a 100,000 gallon steel elevated tank located on Spotswood Trail west of Quinque. The distribution mains are PVC and DI pipe sized from 2" and smaller up to 20", plus some cast iron pipe in Stanardsville, and when combined along with 262 fire hydrants, equal approximately 79 miles of mains. The Greene County water system serves over 2,900 connections in 45 subdivisions and the Town of Stanardsville. The water treatment plant consists of two identical 600,000 gpd Neptune Microfloc Plants placed into service in December 1988 and October 2001.

RSA owns and operates an 180,000 gpd wastewater treatment plant in Stanardsville that is a land application system with two primary aerated lagoons and a 120 day storage pond. The collection system consists of a mix of low pressure sewer, using home grinder pump stations and a gravity system, with 5 major pump stations. In 2006 RSA began operating the Rapidan Publicly Owned Treatment Works (POTW) that has a capacity of 0.6 million gallons per day which features an oxidation ditch, two clarifiers, two digesters, a sludge centrifuge and an aerated discharge to the Rapidan River at Route 29. The Rapidan POTW collection system has seven major pump stations and serves the Ruckersville area. There are approximately 979 sewer customers in Greene County with 44 miles of sewer mains.

RSA owns and maintains the water distribution system on Route 15, between Orange and Gordonsville. The Town of Orange supplies the Route 15 system water via contract. In 2001, Orange County approved RSA to operate the Thomas E. Lee Industrial Park water system. In 2002, Orange County installed a one million gallon storage tank with 12" and 16" mains between the new tank and the Lee Industrial Park with RSA operating the new system. The RSA Route 15 line consists of about 13 miles of PVC and asbestos-cement pipe and a 500,000-gallon steel ground storage tank located on the Sedwick's farm on Route 15 south of Orange. This system serves 117 customers including the Lee Industrial Park, EDM, MPS, the Town of Gordonsville, and includes 28 fire hydrants.

The Route 20 water system East of Orange is supplied by a well at the storage tank site on Porter Road. It was deeded to RSA in 1993, contains approximately 5 miles of line, a 150,000-gallon steel elevated storage tank, a 30 gpm well at the tank site, and 22 fire hydrants. RSA installed a corrosion inhibitor system in 1993. In 2014 RSA installed a new well on May Lane and its capacity is 40 gpm. This system serves 149 customers.

From November 1, 1984 through June 30, 1990, RSA contracted with the Town of Madison to operate their water and sewer treatment plants. On March 1, 1993, RSA became the owner of these systems. The Madison water plant has a rated capacity of 250,000 gpd and serves 289 connections. The water distribution system contains 8 miles of mains with a 500,000 gallon concrete ground tank. The 75,000 gallon steel elevated tank was removed in 2003. White Oak Lake reservoir is owned and maintained by RSA. The wastewater treatment plant has a licensed capacity of 80,000 gpd. In 2003, an additional concrete digester and three new solids drying beds were added to the wastewater treatment plant. The gravity sewer system includes 3 miles of 8" concrete & PVC pipe, two pump stations and serves 176 customers.

In August 1985, the Town of Gordonsville transferred ownership of the Gordonsville sewer treatment plant and collection system to RSA. The plant was under a State Water Control Board order to upgrade and meet more stringent discharge limitations. A new Wastewater Treatment Plant, costing three million dollars, was put into service in July 1988 with a licensed capacity of 667,000 gpd. The new plant utilizes all facets of the old plant, but adds two storage ponds, three pump stations, approximately forty-five acres of spray terraces using overland flow treatment, and a final discharge. A post aeration system was added in 1994. In 2003, the 12" gravity sewer interceptor line was relined from Main Street to High Street and in 2006 Faulconer Street's sewer main was relined. The collection system consists of approximately 18 miles of PVC and concrete main, with approximately 190 manholes and three pump stations.

On November 1, 1987, RSA acquired ownership of the Lake of the Woods (LOW) water and sewer system. The original LOW system has been expanded and now includes Wilderness Shores, Somerset Farms, Germanna Community College, Germanna Heights and commercial development along Route 3. The RSA East system is located 15 miles west of Fredericksburg, Virginia on State Route 3.

The East system consists of 2½" to 12" PVC and AC mains and 145 fire hydrants. Water storage consists of a 300,000 gallon ground steel storage tank with a booster pump station rated at 250 gpm, and a 500,000 gallon elevated steel tank. In 1991, a 1.6 million gpd water treatment plant was put into service, consisting of dual train Neptune Microfloc treatment units, with a 250,000 gallon elevated storage tank. The water source is the Rapidan River intake pump station with two 2,000 gpm pumps and one 1,100 gpm pump. The plant is connected to the LOW subdivision via 12' PVC transmission main along the Route 3. In 2002, RSA installed 12" PVC water main along Lakeview Parkway from Fairfax Lane to Gold Valley Road to enhance the transfer of water throughout the subdivision. In 2004, a new 500,000 gallon concrete clearwell tank and high service pump station were placed in service at the Wilderness Water Treatment Plant. In 2012, Orange County installed a new 500,000 gallon elevated water tank on the middle school site and upgraded 4,700 feet of 12" water main on Confederate Drive and Yorktown Boulevard. The water system consists of approximately 74 miles of water mains. There are approximately 4,680 connections on the East system including 5 subdivisions and 3 shopping centers.

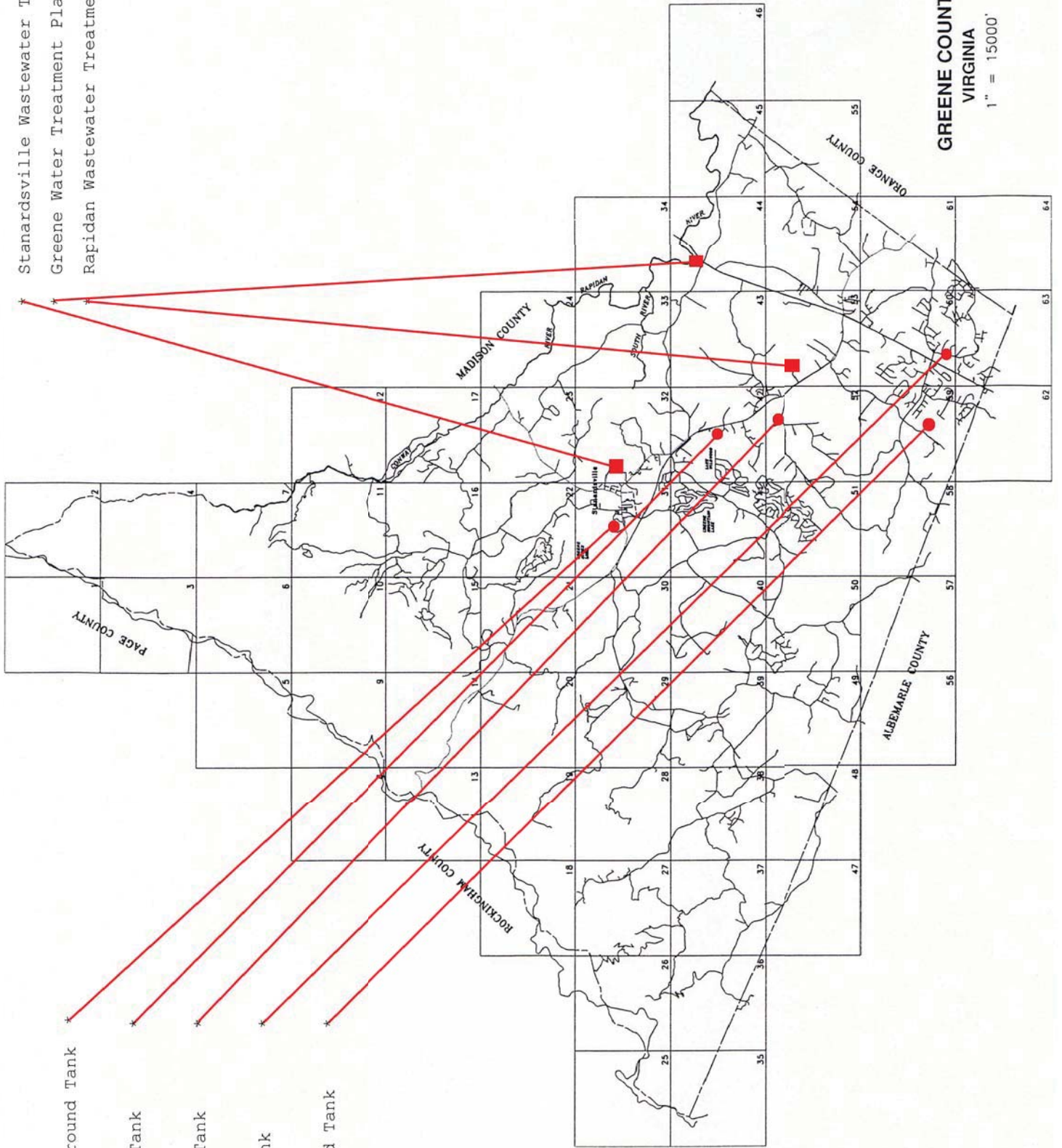
The LOW sewer system consists of a vacuum collection system with 13 vacuum stations and three lift stations. The system contains 4" to 10" vacuum mains, 10" concrete gravity mains, 3" to 8" PVC force mains and approximately 1,600 holding tanks. Sewage is held in these tanks until the vacuum pumps collect and transport the waste to the treatment plant. The previously existing 250,000 gpd treatment facility was in service until 1992. RSA also upgraded the trunk collection mains including 6" to 10" PVC, and 69 plug valves. The sewer system consists of approximately 91 miles of sewer mains. In 1992 and 1993, all thirteen vacuum stations were completely renovated. RSA continues to upgrade the vacuum system every year.



Station R was constructed to transfer wastewater from the old plant to the new plant. The Wilderness Shores 15" gravity collection system was installed and the Germanna College sewer pump station and force main was completed. In 1999, Somerset Farms contributed a 12" water main and various water distribution mains along with a sewer pump station, 8" force main and 8" gravity mains to serve this 320 lot subdivision. In 1999, a new liner was installed in the original treatment pond on Route 3. This facility currently acts as a backup holding pond in the event of a system failure at the primary pump station. In 2000, the plant was re-rated to 715,000 gpd based on existing treatment. In 2001, vacuum stations in LOW were upgraded and equipped with primary and backup pumps. There are a total of 13 pump stations inside the Lake of the Woods development and 10 outside of Lake of the Woods with a total of 4,684 connections.

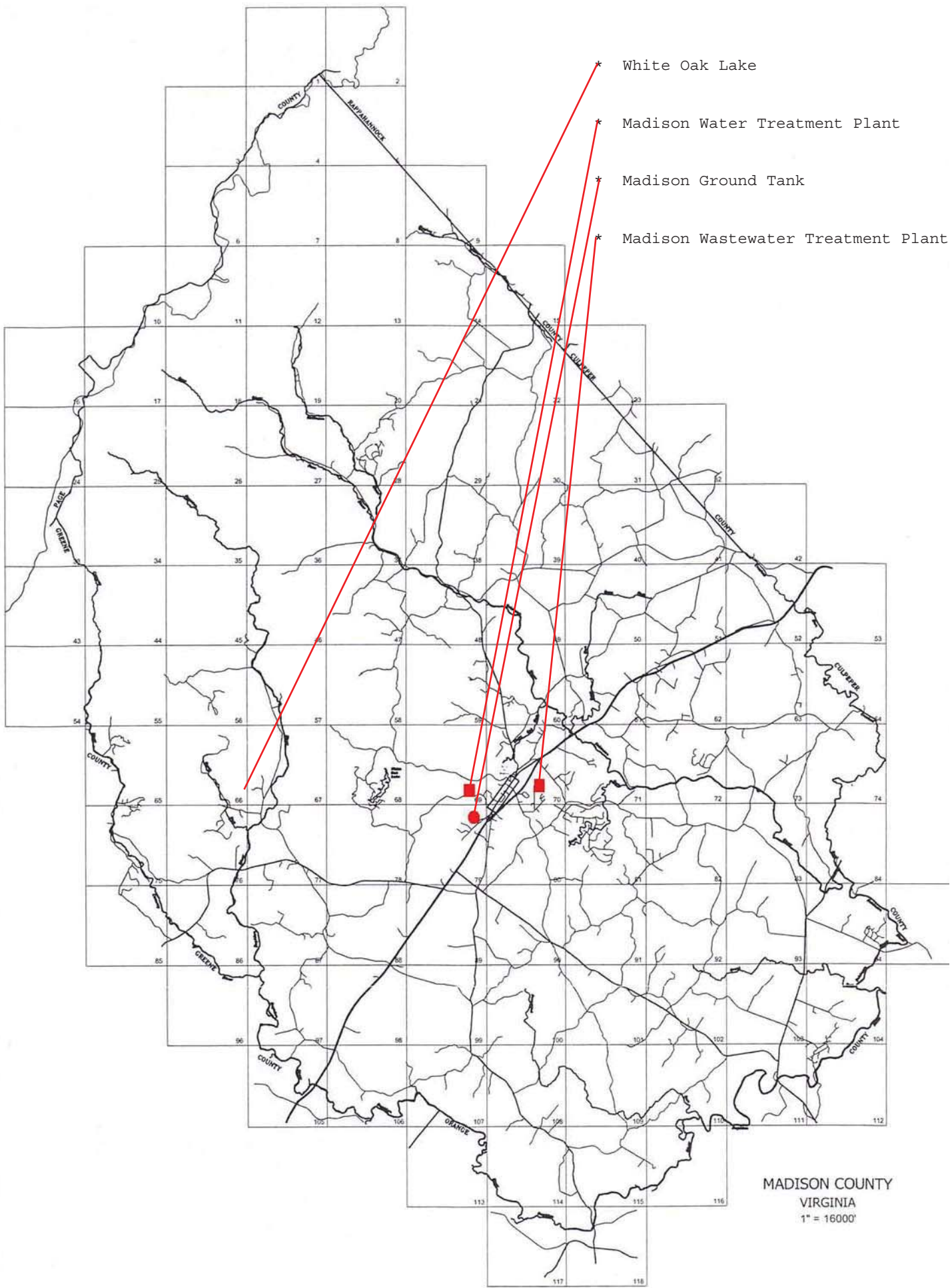
In 2012, RSA completed the Wilderness wastewater treatment plant upgrade with an expanded capacity to 2.0 MGD, using state of the art treatment processes. This upgrade was required to meet the stringent Chesapeake Bay regulations for total nitrogen and total phosphorus removal. The treatment processes include a three train five stage Bardenpho process contained in cast-in-place concrete tanks with common walls and individual tank mixers and fine bubble diffusers plus dechlorination for the two aerobic zones. Three Clarifiers capture the solids followed by a rapid mix flocculation tank, and a continuous backwashing tertiary sand filtration system. Finally, the effluent is disinfected using a hypochlorite solution and aerated by coarse bubble diffusers before being discharged to the Rapidan River. The treatment's captured solids are thickened and sent to two aerobic digesters in concrete tanks and pressed through a new plate and frame press. The entire treatment processes are controlled by an integrated monitoring and control system using PLC logic through a SCADA system accessible from two computer servers and five local stations at the important treatment units.

Stanardsville Wastewater Treatment Plant  
 Greene Water Treatment Plant  
 Rapidan Wastewater Treatment Plant



Stanardsville Ground Tank  
 -  
 Route 33 Water Tank  
 -  
 Quingue Ground Tank  
 -  
 Preddy Creek Tank  
 -  
 Route 644 Ground Tank

**GREENE COUNTY**  
 VIRGINIA  
 1" = 15000'



Wilderness Wastewater Treatment Plant

Wilderness Water Treatment Plant

Route 601 Water Tank

Fairway Drive Water Tank

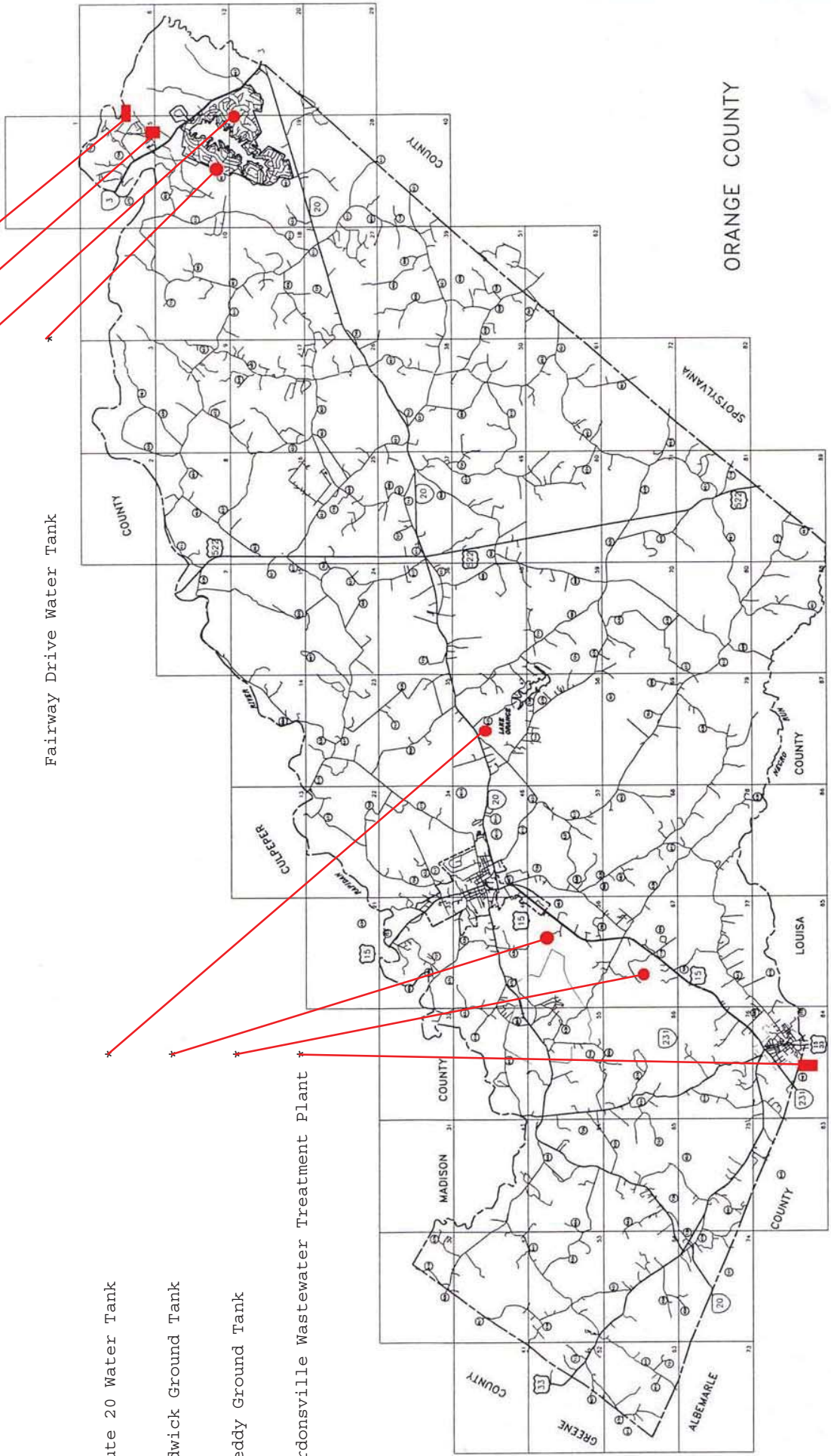
Route 20 Water Tank

Sedwick Ground Tank

Preddy Ground Tank

Gordonsville Wastewater Treatment Plant

ORANGE COUNTY



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**Independent Auditors' 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***

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**To the Board of Directors  
Rapidan Service Authority  
Ruckersville, Virginia**

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 the *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 Rapidan Service Authority as of and for the year ended December 31, 2018, and the related notes to the financial statements, which collectively comprise the Rapidan Service Authority's basic financial statements and have issued our report thereon dated March 15, 2019.

## **Internal Control Over Financial Reporting**

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

## Compliance and Other Matters

As part of obtaining reasonable assurance about whether Rapidan 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 determination of financial statement amounts. However, providing an opinion on compliance with those provisions was not an objective of our audit, and accordingly, we do not express such an opinion. The results of our tests disclosed no instances of noncompliance or other matters that are required to be reported under *Government Auditing Standards*.

### 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.

*Robinson, Farmer, Cox Associates*  
Charlottesville, Virginia  
March 15, 2019