

RAPIDAN SERVICE AUTHORITY RUCKERSVILLE, VIRGINIA

COMPREHENSIVE ANNUAL FINANCIAL REPORT YEARS ENDED DECEMBER 31, 2017 AND 2016

Serving Greene, Madison, and Orange Counties, Virginia

Prepared by the Accounting Department

RAPIDAN SERVICE AUTHORITY COMPREHENSIVE ANNUAL FINANCIAL REPORT YEARS ENDED DECEMBER 31, 2017 AND 2016

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RAPIDAN SERVICE AUTHORITY

BOARD MEMBERS

Greene County: James Frydl

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

RAPIDAN SERVICE AUTHORITY 11235 SPOTSWOOD TRAIL PO BOX 148 RUCKERSVILLE, VA 22968 TEL 434-985-7811 FAX 434-985-6075



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

April 13, 2018

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 2017.

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.

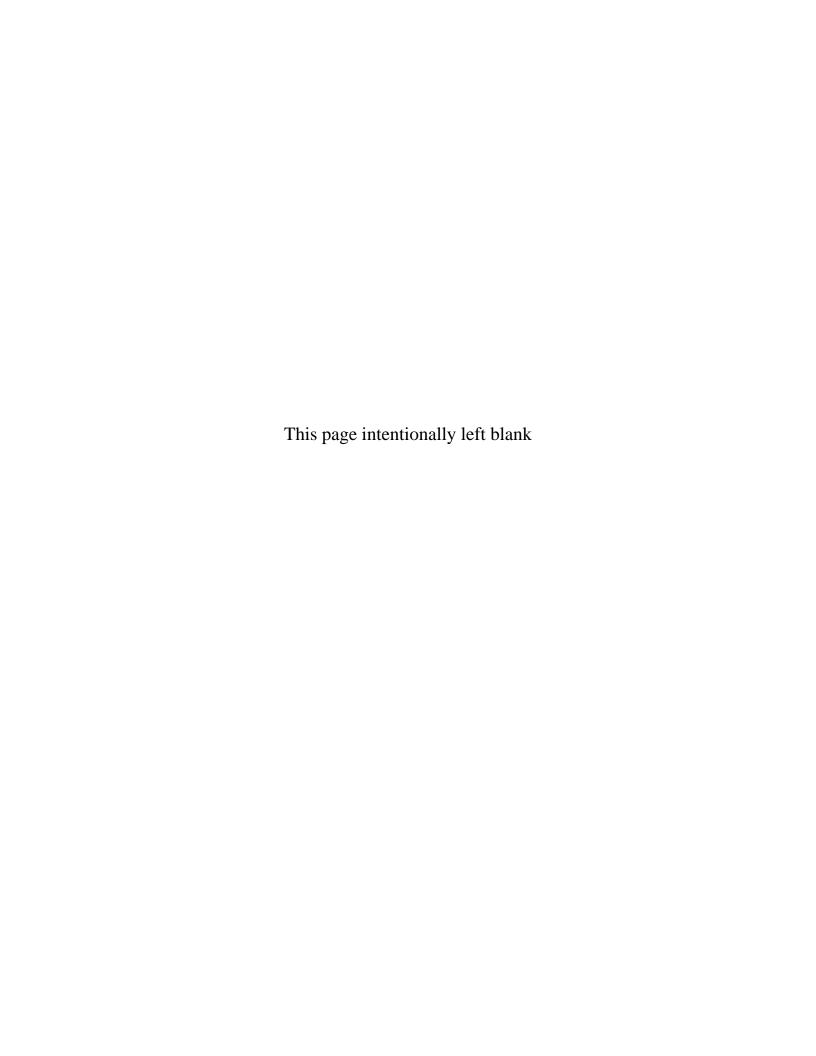
Included in the report you will see the award of the Government Finance Officers Association's Certificate of Achievement for Excellence in Financial Reporting for RSA's 2016 CAFR. RSA has been a consistent recipient of this nationally recognized award. The value of this Certificate cannot be understated, 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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April 13, 2018

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, 2017, 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 2017 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 15% from 2017 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 95% of the RSA's operating revenue in 2017. Water revenue rose 3% from 2016 and sewer revenue increased 5% from 2016. For the year, total operating revenue increased \$248,078 or 3% from 2016.

In 2017, RSA's operating expenses totaled approximately \$8.17 million. Operations and maintenance accounted for 55% of operating expenses, with depreciation representing 33% of the total and administration accounting for 12%. For the year, RSA's total operating expenses increased \$291 thousand, or 4% from 2016.

FY 2017, RSA incurred \$428,859 in operating loss as compared to an operating loss of \$385,481 in 2016.

Debt Administration

Debt service coverage (gross revenue less direct operating expenses) was 1.60 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 \$1,252,103 in FYE 2017 and \$1,133,932 in FYE 2016. Debt payments in 2017 totaled \$1,642,758. At December 31, 2017 long-term outstanding debt totaled \$9,511,850 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 2017. 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, 2016. RSA has received this prestigious award 33 of the last 34 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,

Diringly Clemons GM/RSA

Timothy L. Clemons General Manager



Government Finance Officers Association

Certificate of Achievement for Excellence in Financial Reporting

Presented to

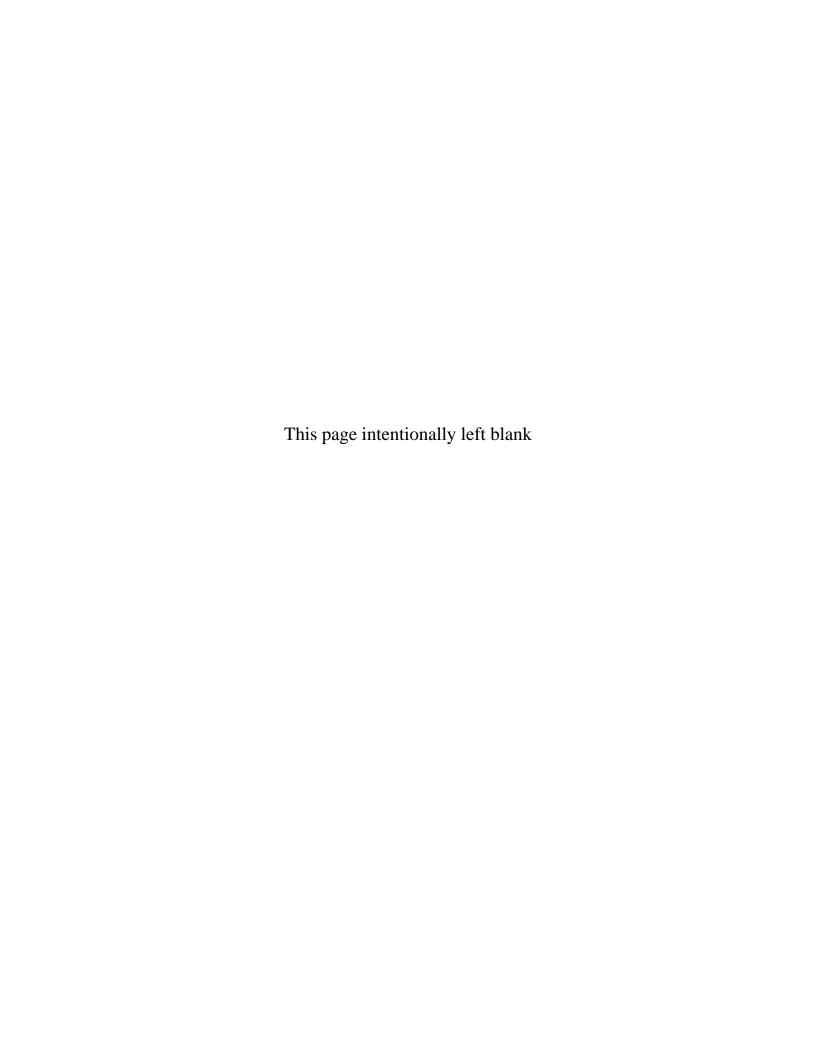
Rapidan Service Authority Virginia

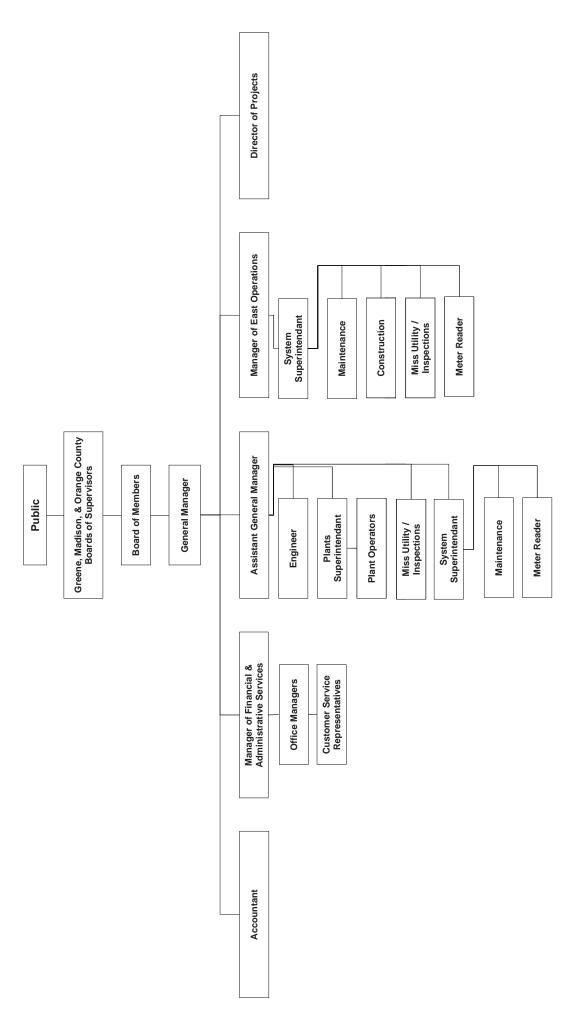
For its Comprehensive Annual Financial Report for the Fiscal Year Ended

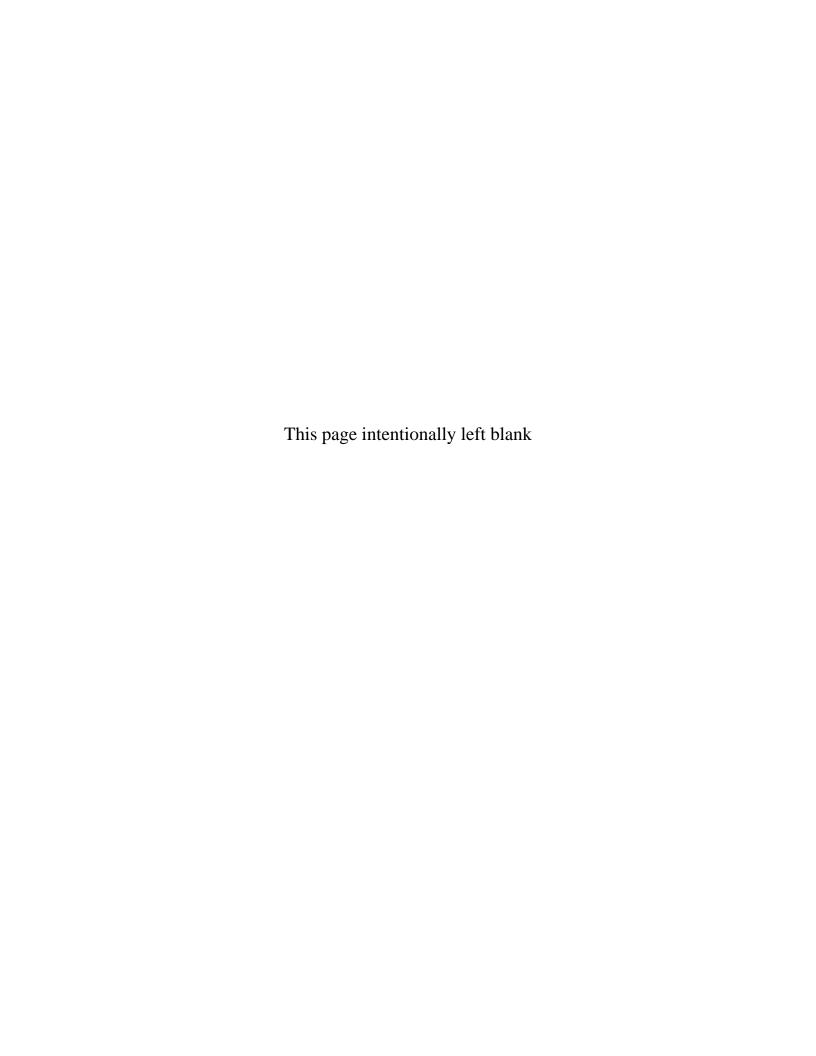
December 31, 2016

Christopher P. Morrill

Executive Director/CEO







ROBINSON, FARMER, COX ASSOCIATES

A PROFESSIONAL LIMITED LIABILITY COMPANY

CERTIFIED PUBLIC ACCOUNTANTS

Independent Auditors' Report

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, 2017 and December 31, 2016, 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, 2017 and 2016, 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.

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.

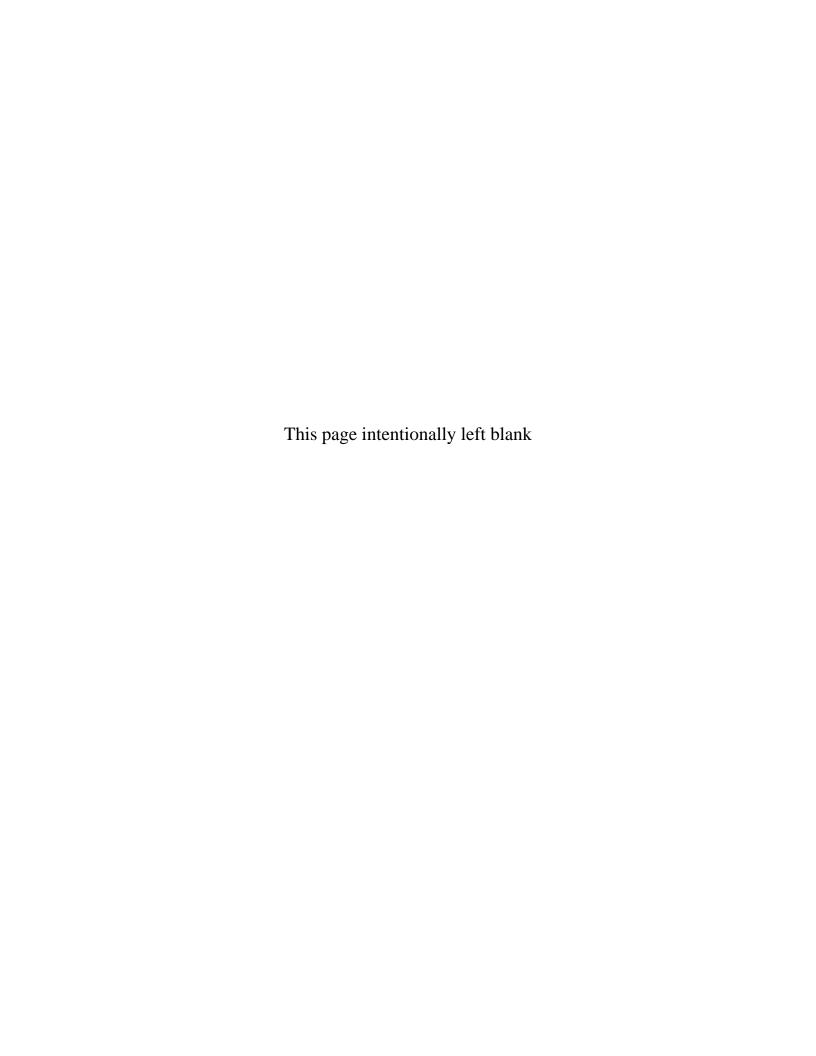
The introductory and statistical sections have not been subjected to the auditing procedures applied in the audit of the basic financial statements and, accordingly, we do not express an opinion or provide any assurance on them.

Other Reporting Required by Government Auditing Standards

In accordance with *Government Auditing Standards*, we have also issued our report dated April 13, 2018, 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 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 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.

Mobinson, farmer Cas Associates Charlottesville, Virginia

April 13, 2018



Management's Discussion and Analysis

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, 2017. 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 54 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 and deferred outflows of resources of the Authority exceeded its liabilities at the close of the most recent fiscal year by \$57,438,284 (net position). Of this amount \$8,117,866 (unrestricted net position) may be used to meet the Authority's ongoing obligations to customers and creditors.
- The Authority's total net position decreased by \$364,991.
- The Authority's restricted assets increased \$2,720 to \$483,326 during the current fiscal year.

Financial Analysis

Net Position

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

The Authority's net position increased by \$184,495 thousand during the fiscal year 2016, which represents a 0.3% increase from the prior fiscal year ending net position. At December 31, 2016, total net position was \$57.80 million as compared to \$57.62 million the previous year.

	Condensed Statements of Net Position									
					Increase Increase					
		2016		2015		(Decrease)	% Change			
Current and other assets	\$				•		%			
Capital assets		8,666,209	\$	8,069,609	\$	596,600	7.4			
	_	60,820,875	_	62,360,044	_	(1,539,169)	(2.5)			
Total assets	\$									
	_	69,487,084	\$_	70,429,653	\$	(942,569)	(1.3)			
Deferred charge on refunding	\$									
Total deferred outflows of resources	\$_	152,706	\$	197,442	\$	(44,736)	(22.7)			
	_	152,706	\$_	197,442	\$	(44,736)	(22.7)			
Total assets and deferred outflows of resources	\$						%			
	_	69,639,790	_	70,627,095	-	(987,305)	(1.4)			
Long-term liabilities outstanding	\$		_		-	_	%			
Other liabilities		9,476,907	\$	10,775,915	\$	(1,299,008)	(12.1)			
	_	2,359,608		2,232,400		127,208	5.7			
Total liabilities	\$									
	_	11,836,515	\$_	13,008,315	\$	(1,171,800)	(9.0)			
Net position:										
Net investment in capital assets	\$									
Unrestricted		50,463,803	\$	50,848,315	\$	(384,512)	(0.8)			
	_	7,339,472	_	6,770,465		569,007	8.4			
Total net position	\$									
	_	57,803,275	\$_	57,618,780	\$	184,495	0.3			
Total liabilities and net position	\$						%			
	_	69,639,790	\$	70,627,095	\$	(987,305)	(1.4)			

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 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 decreased by 2.3% or \$1.1 million from 2016.

In a comparison of 2016-2015, the net position invested in capital assets, net of related debt was \$50.5 million at December 31, 2016 and represents 87% of total net position. The net position invested in capital assets decreased by 0.8% or \$385 thousand from 2015.

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 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.

In a comparison of 2016-2015, unrestricted net position increased \$569 thousand during the fiscal year 2016 to \$7.34 million, an 8.4% increase from the prior year. Unrestricted net position is 13% of the total net position.

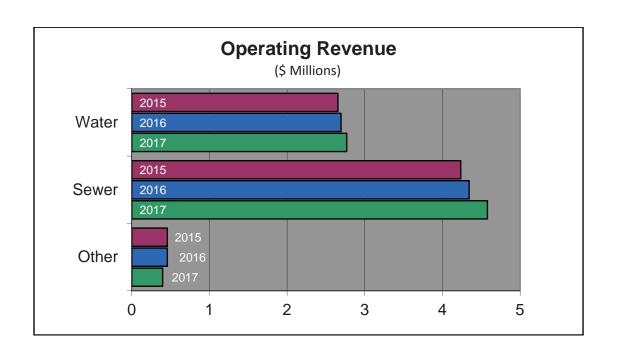
Changes in Revenues, Expenses & Changes in Net Position

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.

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

Condensed Statements of Revenues, Expenses & Change in Net Position

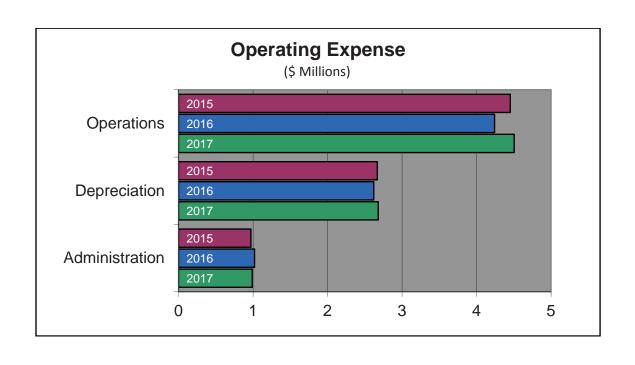
_	Expenses & Change in Net Position									
					Increase					
		2017		2016	_	(Decrease)		% Change		
Revenues:										
Operating revenues	\$	7,744,683	\$	7,496,605	\$	248,078		3.3 %		
Availability fees		540,200		305,000		235,200		77.1		
Other revenue		233,697	_	217,478	_	16,219		7.5		
Total revenues	\$_	8,518,580	\$_	8,019,083	\$_	499,497		6.2		
Expenses:										
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	\$	8,958,571	\$	8,685,594	\$	272,977		3.1		
Income (loss) before capital contributions	\$	(439,991)	\$	(666,511)	\$	226,520	\$	(34.0)		
Capital contributions	\$_	75,000	\$_	851,006	\$_	(776,006)	\$	(91.2)		
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	\$	57,438,284	\$	57,803,275	\$	(364,991)	:	(0.6) %		



The following table summarizes changes in revenues and expenses between fiscal year 2016 and 2015.

Condensed Statements of Revenues, Expenses & Change in Net Position

_	Expenses & Change in Net Position										
						Increase					
		2016	-	2015	-	(Decrease)		% Change			
Revenues:											
Operating revenues	\$	7,496,605	\$	7,348,675	\$	147,930		2.0 %			
Availability fees	Ψ	305,000	Ψ	90,000	Ψ	215,000		238.9			
Other revenue		217,478		213,040		4,438		2.1			
Total revenues	\$	8,019,083	\$	7,651,715	\$	367,368	-	4.8			
Total levellues	Ψ-	0,019,003	Ψ-	7,031,713	Ψ_	307,300	-	4.0			
Expenses:											
Operating expenses	\$	5,262,176	\$	5,423,434	\$	(161,258)		(3.0)			
Depreciation expense		2,619,910		2,667,494		(47,584)		(1.8)			
Interest expense		433,506		474,485		(40,979)		(8.6)			
Other		370,002		272,421		97,581		35.8			
Total expenses	\$	8,685,594	\$	8,837,834	\$	(152,240)	-	(1.7)			
•	-		_		-		-				
Income (loss) before capital contributions	\$	(666,511)	\$	(1,186,119)	\$	519,608	\$	(43.8)			
Capital contributions	\$	851,006	\$	776,497	\$	74,509	\$	9.6			
•	-		-		-	· · · · · · · · · · · · · · · · · · ·	-				
Increase (decrease) in net position	\$	184,495	\$	(409,622)	\$	594,117		(145.0)			
Net position, beginning of year		57,618,780		58,028,402		(409,622)		(0.7)			
Net position, end of year	\$	57,803,275	\$	57,618,780	\$	184,495	-	0.3 %			
	-		-		-		-				



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 2017-2016, operating revenues increased by \$248 thousand or 3.3% to \$7.7 million. Water and sewer revenue increased \$309.4 thousand or 4.4% whereas other revenue, primarily new service installations, decreased \$61 thousand or 13.4% from the year ending 2016.

In a comparison of 2016-2015, operating revenues increased by \$148 thousand or 2% to \$7.5 million. Water and sewer revenue increased \$147.9 thousand or 2% whereas other revenue, primarily new service installations, increased \$69 thousand or .02% from the year ending 2015.

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 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.

In a comparison of 2016-2015, other nonoperating revenue increased by \$4.4 thousand or 2.1% to \$217,478. Availability fees were up \$215 thousand or 238.9% to \$305 thousand. Capital contributions for 2016 totaled \$851 thousand, compared to \$776 thousand in 2015.

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.

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.

In a comparison of 2016-2015, operating expenses decreased \$161.3 thousand or 3% to \$5.26 million at the end of 2016. Depreciation expense totaled \$2.62 million at the end of 2016. Interest expense was down \$41 thousand or -8.6% to \$433.5 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, 2017, capital assets net of accumulated depreciation were \$58.4 million, a decrease of \$2.4 million or 4% from FYE 2016. As of December 31, 2016, capital assets net of accumulated depreciation were \$60.8 million, a decrease of \$1.5 million or 2% from FYE 2015.

The following table summarizes the Authority's capital assets, net of accumulated depreciation, and the changes therein for the years ended December 31, 2016 and 2015.

		Capital Assets, Net of Accumulated Depreciation									
		2017		2016		Increase (Decrease)	% Change				
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				
Total capital assets	\$	58,406,895	\$_	60,820,875	\$	(2,413,980)	(4) %				

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, 2016 and 2015.

		Capital Assets, Net of Accumulated Depreciation									
		2016	2015		Increase (Decrease)	% Change					
Land	\$	1,117,306 \$	1,117,306	\$	-	- %					
Water and sewer systems		59,368,896	60,572,659		(1,203,763)	(2)					
Buildings		142,834	155,693		(12,859)	(8)					
Vehicles and equipment		126,144	154,736		(28,592)	(18)					
Office equipment		24,619	18,271		6,348	35					
Construction in progress	_	41,076	341,379		(300,303)	(88)					
Total capital assets	\$	60,820,875 \$	62,360,044	\$	(1,539,169)	(2) %					

Major capital asset activity for the current fiscal year included:

Current Year Projects:	_	2017
East Sewer System Upgrades	\$	15,642
Matthew Mill 12" Water Main		99,369
East WTP Treatment Train		65,260

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 \$9,201,390 in bonds and notes outstanding compared to \$10,509,778 last year, a 13% decrease.

Long-Term Trends:

Connection Growth

New water connections over the last 10 Fiscal Years are located in Table 8 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.

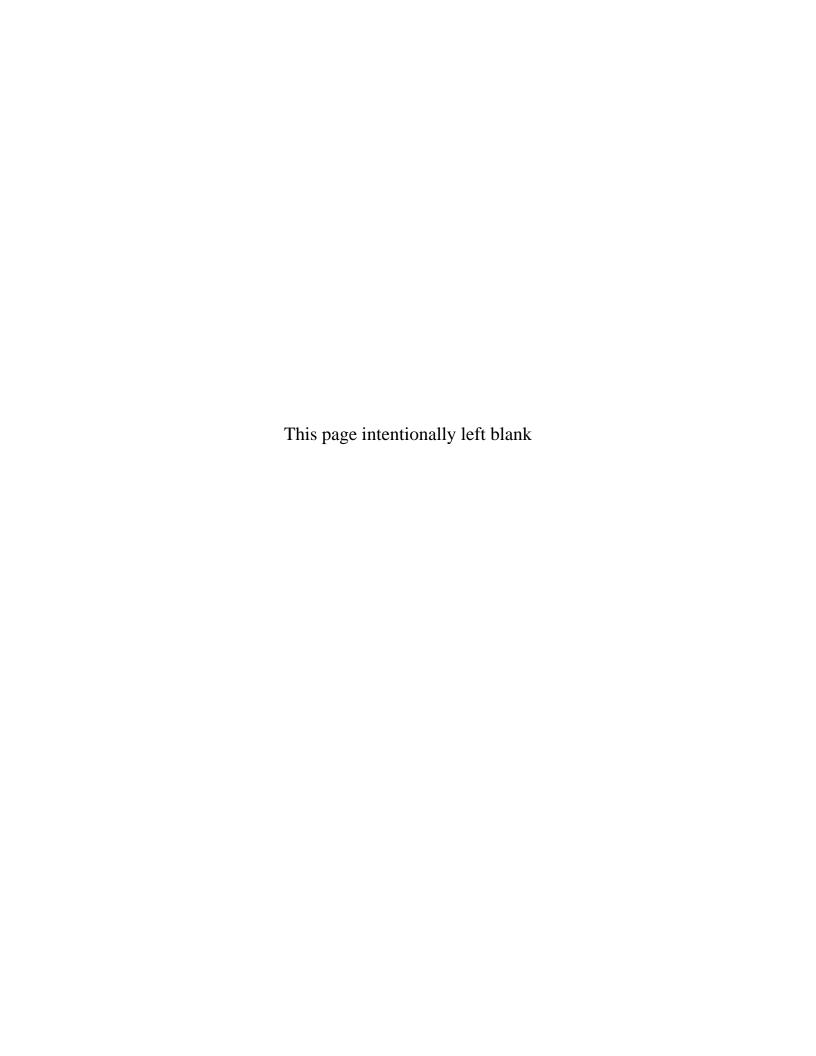
Cash and Cash Equivalents

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



RAPIDAN SERVICE AUTHORITY

Statements of Net Position At December 31, 2017 and 2016

		At December 31,			
	_	2017		2016	
ASSETS					
Current assets:					
Cash and cash equivalents	\$	8,059,581	\$	7,232,672	
Accounts receivable (net of allowance for	Ψ	0,037,301	Ψ	7,232,072	
uncollectible accounts) (Note 2)		696,657		744,213	
Inventory of materials and supplies, at cost		219,601		182,710	
Prepaid items		4,355		26,008	
Restricted current assets:		.,555		20,000	
Cash and cash equivalents (Note 6)		483,326		480,606	
Cash and cash equivalents (1vote 0)	_	405,520	-	400,000	
Total current assets	\$_	9,463,520	\$	8,666,209	
Noncurrent assets:					
Capital assets: (Note 7)					
Land and improvements	\$	1,117,306	\$	1,117,306	
Water and sewer system		97,415,869		97,176,120	
Buildings		378,079		378,079	
Vehicles and equipment		1,354,440		1,423,588	
Office equipment		325,556		314,783	
Accumulated depreciation	_	(42,240,953)		(39,630,077)	
Sub-total	\$	58,350,297	\$	60,779,799	
Construction in progress (Note 8)	Ψ	56,598	Ψ	41,076	
construction in progress (1 (ore o)	_	20,270	-	11,070	
Total net capital assets	\$_	58,406,895	\$	60,820,875	
Total noncurrent assets	\$	58,406,895	\$	60,820,875	
Total Hollowitchie associa	Ψ_	20,100,072	Ψ.	00,020,072	
Total assets	\$_	67,870,415	\$	69,487,084	
DEFERRED OUTFLOWS OF RESOURCES					
Deferred charge on refunding	\$_	114,913	\$	152,706	

Statements of Net Position At December 31, 2017 and 2016 (Continued)

		At December 31,		
		2017		2016
LIABILITIES AND NET POSITION Liabilities:				
Current liabilities:				
Accounts payable	\$	183,180	\$	193,573
Accrued payroll	Ψ	30,396	Ψ	22,548
Accrued payroll taxes		33,707		29,898
Retirement plan and benefits plan payable		12,303		9,264
Due to other governments		132,246		113,484
Unearned revenue		69,140		67,906
Accrued interest payable		90,896		103,928
Compensated absences - current portion (Note 4)		31,046		30,553
Current Liabilities (payable from restricted assets):		31,010		30,333
Customer deposits		483,326		480,606
Bonds and note principal - current portion (Note 4)		1,266,727		1,307,848
Total current liabilities	\$	2,332,967	\$	2,359,608
Noncurrent liabilities:				
Compensated absences - noncurrent portion (Note 4)	\$	279,414	\$	274,977
Bonds and note principal - noncurrent portion (Note 4)		7,934,663		9,201,930
Total noncurrent liabilities	\$	8,214,077	\$	9,476,907
Total liabilities	\$_	10,547,044	\$_	11,836,515
Net position:				
Net investment in capital assets	\$	49,320,418	\$	50,463,803
Unrestricted	_	8,117,866		7,339,472
Total net position	\$	57,438,284	\$_	57,803,275

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, 2017 and 2016

	Year Ended December 31,		
_	2017		2016
Operating revenues:		_	
Water Revenues \$	2,768,061	\$	2,694,009
Sewer Revenues	4,579,082		4,343,752
Other Revenues	397,540		458,844
Total operating revenues \$ _	7,744,683	\$_	7,496,605
Operating expenses:			
Administrative \$	989,339	\$	1,020,263
Operations and maintenance	4,504,179		4,241,913
Depreciation expense	2,680,024		2,619,910
Total operating expenses \$ _	8,173,542	\$	7,882,086
Operating income (loss) \$ _	(428,859)	\$	(385,481)
Nonoperating revenues (expenses):			
Interest income \$	37,807	\$	25,051
Interest expense	(390,655)		(433,506)
Gain on disposal of assets	1,250		1,351
Lease revenue	194,640		191,076
Other income (expenses)	(394,374)		(370,002)
Availability fees	540,200		305,000
Total nonoperating revenues (expenses) \$ _	(11,132)	\$_	(281,030)
Income (loss) before capital contributions \$_	(439,991)	\$	(666,511)
Capital contributions:			
Capital contributions \$	75,000	\$	851,006
Total capital contributions \$_	75,000	\$_	851,006
Change in net position \$	(364,991)	\$	184,495
Net position, beginning of year	57,803,275		57,618,780
Net position, end of year \$ _	57,438,284	\$	57,803,275

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

Statements of Cash Flows Years Ended December 31, 2017 and 2016

		Year Ended	Dec	cember 31,
		2017		2016
Cash flows from operating activities:				
Receipts from customers and users	\$	7,792,239	\$	7,439,180
Payments to suppliers		(3,945,259)		(3,660,806)
Payments to and on behalf of employees	_	(1,731,282)	_	(1,692,827)
Net cash provided by (used for) operating activities	\$_	2,115,698	\$_	2,085,547
Cash flows from capital and related financing activities:				
Purchases of capital assets	\$	(191,044)	\$	(229,735)
Proceeds from sale of assets		1,250		1,351
Principal payments on loans and bonds		(1,252,103)		(1,133,932)
Availability fees		540,200		305,000
Interest payments	_	(422,179)	_	(464,876)
Net cash provided by (used for) capital and related financing activities	\$ _	(1,323,876)	\$_	(1,522,192)
Cash flows from investing activities:		2= 00=	Φ.	
Interest income	\$_	37,807	\$_	25,051
Net cash provided by (used for) investing activities	\$_	37,807	\$ _	25,051
Increase (decrease) in cash and cash equivalents	\$	829,629	\$	588,406
Cash and cash equivalents at beginning of year (including \$480,606				
and \$431,296, respectively reported in restricted accounts)	_	7,713,278	_	7,124,872
Cash and cash equivalents at end of year (including \$483,326 and				
\$480,606 respectively reported in restricted accounts)	\$ _	8,542,907	\$ _	7,713,278
Reconciliation of operating income (loss) to net cash provided by				
(used for) operating activities:	Ф	(420, 050)	ф	(205 401)
Operating income (loss)	\$	(428,859)	\$	(385,481)
Adjustments to reconcile operating income (loss) to net cash				
provided by (used for) operating activities:		2 690 024		2 610 010
Depreciation expense Lease revenue		2,680,024 194,640		2,619,910 191,076
Other income (expenses)		(394,374)		(370,002)
Changes in operating assets and liabilities:		(334,374)		(370,002)
(Increase) decrease in accounts receivable		47,556		(57,425)
(Increase) decrease in due from other governments		-		33,113
(Increase) decrease in prepaid expenses		21,653		664
(Increase) decrease in inventories		(36,891)		15,454
Increase (decrease) in compensated absences		4,930		8,712
Increase (decrease) in payables and accrued expenses		27,019		29,526
Net cash provided by (used for) operating activities	\$	2,115,698	\$	2,085,547
Supplemental Disclosure:	=			
Noncash investing, capital, and financing activities:				
Capital assets contributed	\$ _	75,000	\$ _	851,006

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

Notes to Financial Statements At December 31, 2017 and 2016

NOTE 1-BASIS OF PRESENTATION:

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:

<u>Basis of Accounting</u> - 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.

<u>Financial Reporting</u> - 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.

<u>Budgetary Control</u> - 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.

Notes to Financial Statements At December 31, 2017 and 2016 (Continued)

NOTE 2-SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES: (Continued)

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

<u>Cash and Cash Equivalents</u> - 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.

<u>Investments</u> – 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.

<u>Accounts Receivable</u> - Accounts receivable consist of water and sewer billings. The provision for uncollectibility was \$66,013 of gross receivables of \$762,670 in 2017 and \$11,839 of gross receivables of \$756,052 in 2016.

<u>Capital Assets and Depreciation</u> - 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.

Notes to Financial Statements At December 31, 2017 and 2016 (Continued)

NOTE 2-SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES: (Continued)

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

Items	Years
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, 2017 and 2016 amounted to \$2,680,024 and \$2,619,910 respectively.

<u>Legal Compliance</u> - 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.

Notes to Financial Statements At December 31, 2017 and 2016 (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.

<u>Interest on Indebtedness</u> – 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 2017 nor 2016. Other interest costs of the Authority are treated as nonoperating expenses. All interest on indebtedness will be expensed as a nonoperating expense.

<u>Prepaid Expenses</u> – Certain payments to vendors reflect costs applicable to future accounting periods and are recorded as prepaid items in both government-wide and 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 1-1/4 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.

Liability For	 2017	2016
Annual Leave Sick Leave	\$ 196,469 \$ 113,991	194,473 111,057
Total Compensated Absences	\$ 310,460 \$	305,530

<u>Restricted Assets</u> – 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.

Notes to Financial Statements At December 31, 2017 and 2016 (Continued)

NOTE 2-SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES: (Continued)

<u>Deferred Charge</u> on Refunding:

In fiscal year 2017, the Authority amortized \$37,793 of deferred refunding on revenue bonds. The deferred charge on refunding remaining at December 31, 2017 is \$114,913.

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 when applicable will 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 only 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.

In addition to liabilities, the statement of financial position when applicable will 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, 2017.

Notes to Financial Statements At December 31, 2017 and 2016 (Continued)

NOTE 3-UTILITY PLANT IN SERVICE:

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 is recorded at market 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 fair market value at date of donation as basis for valuation.

NOTE 4-LONG-TERM LIABILITIES:

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

Year Ending	 Revenue	Bonds	Rever	Note	
December 31,	Principal	 Principal	_	Interest	
2018	\$ 1,205,017	449,725	\$ 20,000	\$	-
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		-
2023-2027	2,730,064	1,108,027	-		-
2028-2032	1,700,000	538,586	-		-
2033-2034	 775,000	69,218	 _	_	
Total	\$ 8,891,823	3,604,222	\$ 100,000	\$_	_

Notes to Financial Statements At December 31, 2017 and 2016 (Continued)

NOTE 4-LONG-TERM LIABILITIES: (Continued)

Long-term liabilities include the following at December 31:

		2017		2016
	_	Principal		Principal
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.	\$	5,045,000	\$	5,250,000
\$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.		3,196,823		3,520,176
\$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		483,000
\$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		865,000
\$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 5.5%. The proceeds were used to advance refund the 1993 revenue bonds.		2,000		5,750
Premiums on Bonds Issued		209,567		265,852
Total revenue bonds	\$	9,101,390	\$	10,389,778
Revenue note—Virginia Resource Authority:	-		_	
\$400,000 note at a rate of 0% interest for 20 years	\$_	100,000	\$_	120,000
Compensated Absences	\$	310,460	\$	305,530
Total long-term obligations	\$	9,511,850	\$_	10,815,308

Notes to Financial Statements At December 31, 2017 and 2016 (Continued)

NOTE 4-LONG-TERM LIABILITIES: (Continued)

Changes in Long-term Liabilities for the years ended December 31, 2017 and 2016:

		Balance nuary 1, 2017		Increases/ Issuances	_	Decreases/ Retirements	_	Balance December 31, 2017	Amount Due Within One Year
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	\$ 10),549,456	\$	166,357	\$	1,413,530	\$	9,302,283 \$	1,256,063
Premiums on Bonds Issued		265,852			-	56,285	-	209,567	41,710
Total obligations for financial statement presentation	\$ <u>10</u>),815,308	\$	166,357	\$_	1,469,815	\$	9,511,850 \$	1,297,773
		Balance		T		December		Balance	Amount Due
	Ja	nuary 1, 2016		Increases/ Issuances		Decreases/ Retirements		December 31, 2016	Within One Year
Revenue Bonds	\$ 11	,237,858	•	_	\$	1,113,932	- \$	10,123,926 \$	1,232,100
Revenue Note	ΨΙΙ	140,000		_	Ψ	20,000	Ψ	120,000	20,000
Compensated Absences		296,818		196,793		188,081		305,530	30,553
Totals	\$ 11	,674,676	•	196,793	\$	1,322,013	\$	10,549,456 \$	1,282,653
Premiums on Bonds Issued		331,313			_	65,461	_	265,852	55,748
Total obligations for financial									

Notes to Financial Statements At December 31, 2017 and 2016 (Continued)

NOTE 4-LONG-TERM LIABILITIES: (Continued)

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

	_	2017	_	2016
Revenue Note Payable:	.	100.000		1.00000
Revenue Note	\$	100,000	\$	120,000
Less Current Portion	_	(20,000)	_	(20,000)
Long Term Revenue Note Payable	\$_	80,000	\$_	100,000
Revenue Bonds:				
2002 Series	\$	2,000	\$	5,750
Unamortized Premium		-		
Current Portion		(2,000)		(3,750)
Total	\$	-	\$	2,000
2009B Series	\$	5,045,000	\$	5,250,000
Unamortized Premium		84,576		93,498
Current Portion		(215,000)		(205,000)
Total	\$	4,914,576	\$	5,138,498
2009A Series	\$	3,196,823	\$	3,520,176
Unamortized Premium		116,470		143,893
Current Portion		(340,017)	_	(323,350)
Total	\$_	2,973,276	\$_	3,340,719
2013 Series	\$	445,000	\$	865,000
Unamortized Premium	Ψ	6,833	Ψ	22,769
Current Portion		(445,000)		(420,000)
Total	\$	6,833	\$	467,769
1000	Ψ=	0,022	=	107,705
2008 Series	\$	203,000	\$	483,000
Unamortized Premium		1,688		5,692
Current Portion		(203,000)	_	(280,000)
Total	\$_	1,688	\$_	208,692

Notes to Financial Statements At December 31, 2017 and 2016 (Continued)

NOTE 4-LONG-TERM LIABILITIES: (Continued)

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, 2017 and 2016, there were no bonds outstanding that are considered defeased.

(1) <u>Assumption of Debt:</u>

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 45.

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, 2017.

NOTE 5-RETIREMENT PLAN:

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 2017 was \$1,750,908. The payroll for those covered by the plan was \$1,299,604.

Notes to Financial Statements At December 31, 2017 and 2016 (Continued)

NOTE 5-RETIREMENT PLAN: (Continued)

The Rapidan Service Authority contributed \$61,020 for its covered employees or 4.70% of the covered payroll. The employees contributed \$99,114, 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.

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

NOTE 6-DEPOSITS AND INVESTMENTS:

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).

Notes to Financial Statements At December 31, 2017 and 2016 (Continued)

NOTE 6-DEPOSITS AND INVESTMENTS: (Continued)

Custodial Credit Risk (Investments)

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

The Authority's investments at December 31, 2017 and 2016 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, 2017 and 2016 were rated by Standard and Poor's using Standard and Poor's rating scale.

Authority's Dated Doht Investments 2017

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7

Notes to Financial Statements At December 31, 2017 and 2016 (Continued)

NOTE 6-DEPOSITS AND INVESTMENTS: (Continued)

Interest Rate Risk

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

Investment Maturities - 2017*

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

^{*} Weighted average maturity in years

Investment Maturities - 2016*

Investment Type	 Fair Value	Less Than 1 Year	1-5 Years
Local Government Investment Pool VACO/VML Virginia Investment Pool	\$ 2,298 \$ 4,511,934	2,298	4,511,934
Total	\$ 4,514,232 \$	2,298 \$	4,511,934

^{*} 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.

Notes to Financial Statements At December 31, 2017 and 2016 (Continued)

NOTE 7-CAPITAL ASSETS:

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

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

Notes to Financial Statements At December 31, 2017 and 2016 (Continued)

NOTE 7-CAPITAL ASSETS: (Continued)

Details of changes in capital assets for the year ended December 31, 2016 are as follows:

	_	Balance January 1, 2016	Increases	Decreases	Balance December 31, 2016
Capital assets not being depreciated:					
Land and improvements	\$	1,117,306 \$	- \$	- \$	1,117,306
Construction in progress Total capital assets not being	_	341,379	229,775	530,078	41,076
depreciated	\$_	1,458,685 \$	229,775 \$	530,078 \$	1,158,382
Capital assets, being depreciated:					
Water system	\$	33,378,783 \$	250,775 \$	- \$	33,629,558
Accumulated depreciation		(16,452,739)	(874,763)	-	(17,327,502)
Total	\$	16,926,044 \$	(623,988) \$	- \$	16,302,056
Sewer system	\$	62,452,450 \$	1,094,112 \$	- \$	63,546,562
Accumulated depreciation	_	(18,805,835)	(1,673,887)		(20,479,722)
Total	\$	43,646,615 \$	(579,775) \$	- \$	43,066,840
Buildings	\$	378,079 \$	- \$	- \$	378,079
Accumulated depreciation	_	(222,386)	(12,859)		(235,245)
Total	\$	155,693 \$	(12,859) \$	- \$	142,834
Vehicles and equipment	\$	1,421,658 \$	18,779 \$	16,849 \$	1,423,588
Accumulated depreciation	_	(1,266,922)	(47,371)	(16,849)	(1,297,444)
Total	\$	154,736 \$	(28,592) \$	- \$	126,144
Office equipment	\$	297,405 \$	17,378 \$	- \$	314,783
Accumulated depreciation	_	(279,134)	(11,030)		(290,164)
Total	\$	18,271 \$	6,348 \$	- \$	24,619
Capital assets, net	\$_	62,360,044 \$	(1,009,091) \$	530,078 \$	60,820,875

Notes to Financial Statements At December 31, 2017 and 2016 (Continued)

NOTE 8-CONSTRUCTION IN PROGRESS:

Details of construction work 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

Details of construction in progress for the year ended December 31, 2016 are as follows:

Description	Balance January 1, 2016	Cost of Construction	Expense/ Transfer to Capital assets	Balance December 31, 2016
Gordonsville Wastewater Treatment				
Plant Upgrade Study \$	114,881	\$ -	\$ 114,881 \$	-
Gordonsville Wastewater Treatment	-	96,901	96,901	-
East Sewer System Upgrades	8,322	128,888	115,324	21,886
Greene Water Treatment Plant Intake Repair	24,300	-	24,300	-
Route 15 Water System Infrastructure	19,004	66	-	19,070
Sage Accounting Software Upgrade	13,577	3,800	17,377	-
Matthew Mill 12" Water Main	-	120	-	120
Route 20 Well #2	161,295		161,295	
Total \$	341,379	\$ 229,775	\$ 530,078 \$	\$41,076

Notes to Financial Statements At December 31, 2017 and 2016 (Continued)

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.

NOTE 10-UNEARNED REVENUE:

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

Source		2017	2016		
Water tower rental	\$_	69,140	\$	67,906	
Total	\$_	69,140	\$	67,906	

NOTE 11-OPERATING LEASE AGREEMENTS:

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:

Statement No. 75, Accounting and Financial Reporting for Postemployment Benefits Other Than Pension, improves accounting and financial reporting by state and local governments for postemployment benefits other than pensions (other postemployment benefits or OPEB). This Statement replaces the requirements of Statements No. 45, Accounting and Financial Reporting by Employers for Postemployment Benefits Other Than Pensions, as amended, and No. 57, OPEB Measurements by Agent Employers and Agent Multiple Employer Plans, for OPEB. Statement No. 74, Financial Reporting for Postemployment Benefit Plans Other Than Pension Plans, establishes new accounting and financial reporting requirements for OPEB plans. This Statement is effective for fiscal years beginning after June 15, 2017.

Statement No. 81, Irrevocable Split-Interest Agreements, improves accounting and financial reporting for irrevocable split-interest agreements by providing recognition and measurement guidance for situations in which a government is a beneficiary of the agreement. The requirements of this Statement are effective for financial statements for periods beginning after December 15, 2016, and should be applied retroactively.

Notes to Financial Statements At December 31, 2017 and 2016 (Continued)

NOTE 12-UPCOMING FINANCIAL REPORTING PRONOUNCEMENTS: (CONTINUED)

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.

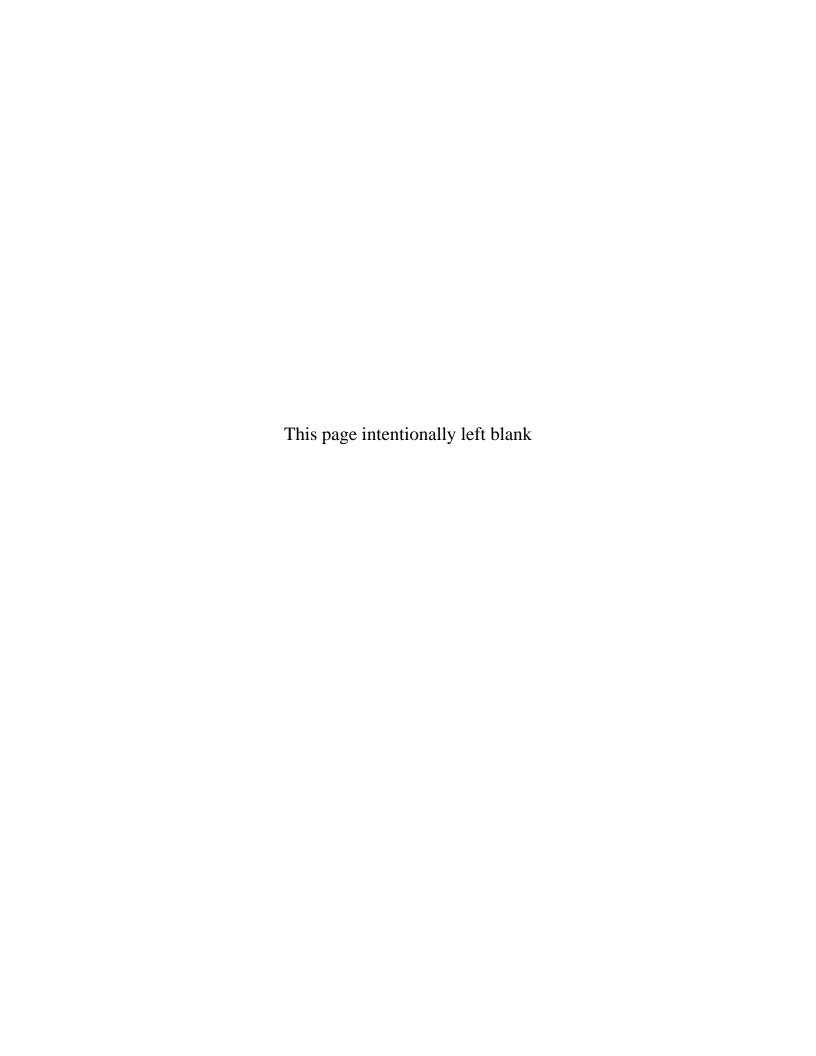
Statement No. 84, Fiduciary Activities, establishes criteria for identifying fiduciary activities of all state and local governments. The focus of the criteria generally is on (1) whether a government is controlling the assets of the fiduciary activity and (2) the beneficiaries with whom a fiduciary relationship exists. Separate criteria are included to identify fiduciary component units and postemployment benefit arrangements that are fiduciary activities. This Statement describes four fiduciary funds that should be reported, if applicable: (1) pension (and other employee benefit) trust funds, (2) investment trust funds, (3) private-purpose trust funds, and (4) custodial funds. This Statement also provides for recognition of a liability to the beneficiaries in a fiduciary fund when an event has occurred that compels the government to disburse fiduciary resources. The requirements of this Statement are effective for reporting periods beginning after December 15, 2018.

Statement No. 86, Certain Debt Extinguishment Issues, improve consistency in accounting and financial reporting for in-substance defeasance of debt by providing guidance for transactions in which cash and other monetary assets acquired with only existing resources—resources other than the proceeds of refunding debt—are placed in an irrevocable trust for the sole purpose of extinguishing debt. This Statement also improves accounting and financial reporting for prepaid insurance on debt that is extinguished and notes to financial statements for debt that is defeased in substance. The requirements of this Statement are effective for reporting periods beginning after June 15, 2017.

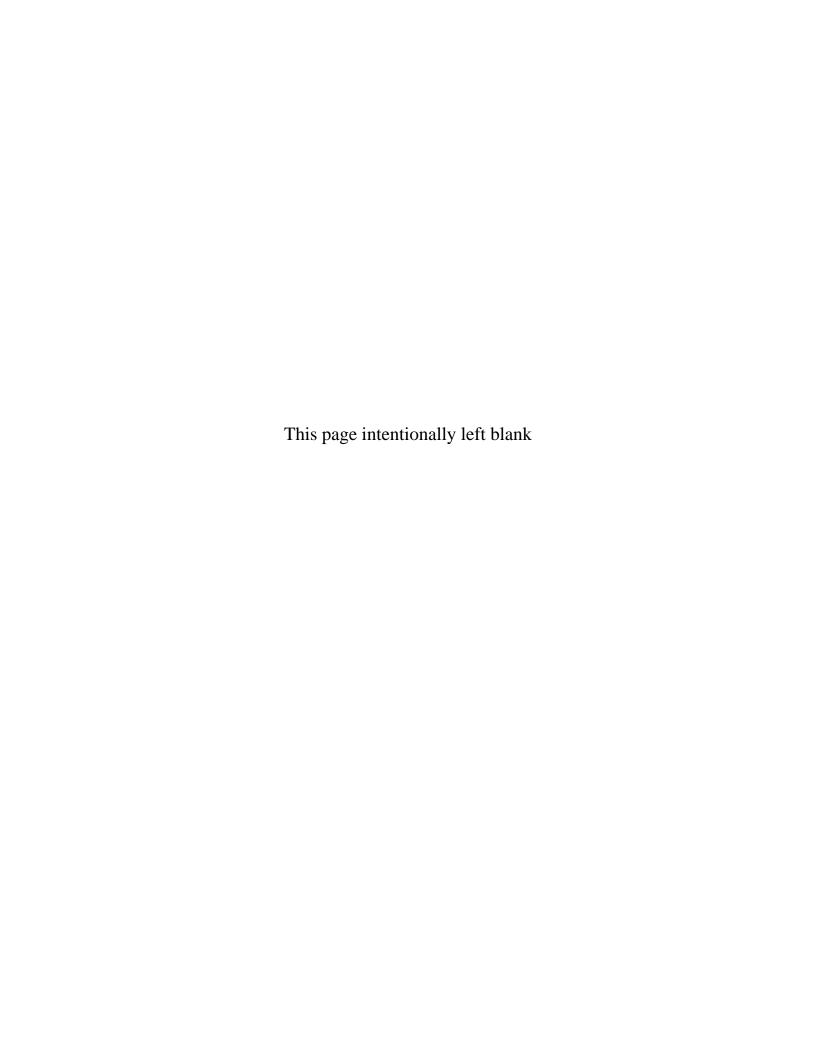
Statement No. 87, Leases, increases the usefulness of governments' financial statements by requiring recognition of certain lease assets and liabilities for leases that previously were classified as operating leases and recognized as inflows of resources or outflows of resources based on the payment 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.

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

Other Supplementary Information

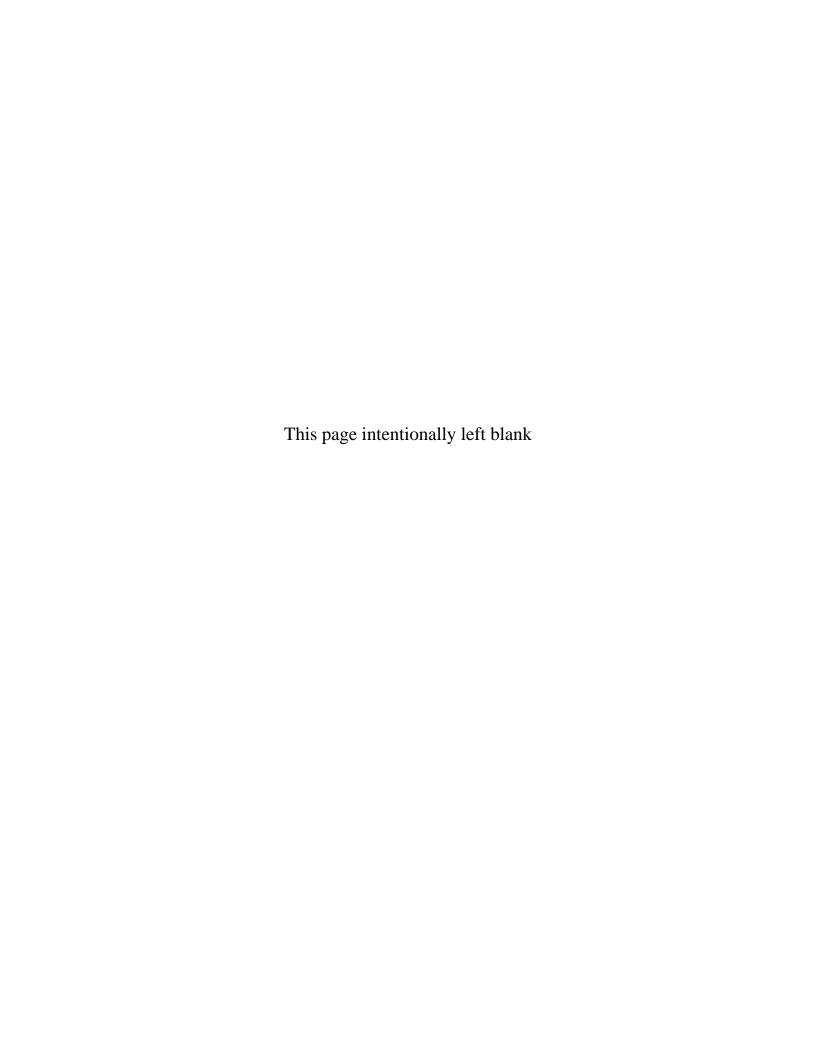


Supporting Schedules



Comparative Schedule of Revenues--Budget and Actual Years Ended December 31, 2017 and 2016

			2017		-	2016						
	-	Budget	Actual	Variance Favorable (Unfavorable)	-	Budget	Actual	Variance Favorable (Unfavorable)				
Water Sales & Penalties	\$	2,722,307 \$	2,768,061 \$	45,754	\$	2,775,475 \$	2,694,009 \$	(81,466)				
Sewer Operations		4,289,145	4,579,081	289,936		4,306,176	4,343,752	37,576				
Sale of Materials & Supplies		14,000	10,633	(3,367)		14,000	28,285	14,285				
Maintenance Revenue		12,500	-588	(13,088)		12,500	6,787	(5,713)				
Inspection Fees		5,000	6,462	1,462		5,000	3,004	(1,996)				
Miscellaneous/Other		130,900	129,291	(1,609)		122,400	169,157	46,757				
Service Installations		136,080	177,350	41,270		152,880	135,600	(17,280)				
Lake of The Woods Non-User Fees		116,500	74,393	(42,107)	-	122,000	116,011	(5,989)				
Totals	\$	7,426,432 \$	7,744,683 \$	318,251	\$	7,510,431 \$	7,496,605 \$	(13,826)				



Comparative Schedule of Operating Expenses--Budget and Actual Years Ended December 31, 2017 and 2016

			2017			2016	
	_			Variance			Variance
				Favorable			Favorable
	_	Budget	Actual	(Unfavorable)	Budget	Actual	(Unfavorable)
Administrative:		*					
Personnel	\$	557,717 \$	556,790		556,950 \$	555,421	
Maintenance		21,700	22,570	(870)	21,200	23,652	(2,452)
Miscellaneous		100	250	(150)	100	36	64
Insurance Billing and Collection		163,089 142,784	135,342	27,747 21,334	148,100 137,300	155,309 110,780	(7,209)
Audit and Consulting		25,000	121,450 23,770	1,230	23,000	39,492	26,520 (16,492)
Wtr/Swr Regulatory Fees		49,300	46,240	3,060	47,300	47,146	154
Legal/Bond/Bank Fees		32,200	17,079	15,121	26,200	17,866	8,334
Depreciation		19,502	19,502	13,121	23,620	23,620	0,554
Board Member Compensation		8,000	7,861	139	8,000	7,800	200
State Unemployment Tax		9,750	7,265	2,485	9,950	7,658	2,292
Training and Education		8,800	8,140	660	9,200	6,845	2,355
Office Supplies and Postage		9,000	5,910	3,090	9,000	7,111	1,889
Utilities		8,500	4,609	3,891	8,500	6,721	1,779
Communications		42,400	39,511	2,889	42,400	40,466	1,934
Advertising		1,700	922	778	1,700	492	1,208
Transportation Vehicle Expense		5,100	2,754	2,346	9,100	3,190	5,910
Total Adminsitrative	\$	1,104,642 \$	1,019,965	\$ 84,677 \$	1,081,620 \$	1,053,605	\$ 28,015
Greene, Route 15 and Route 20							
Water Operations:							
Operating Labor	\$	283,753 \$	239,391	\$ 44,362 \$	286,400 \$	274,817	\$ 11,583
Engineering and Design	Ψ	54,190	21,776	32,414	55,715	26,107	29,608
Maintenance		194,800	269,277	(74,477)	201,400	187,399	14,001
Treatment Supplies and Materials		30,600	28,366	2,234	30,600	28,661	1,939
Vehicle Expense/Gas and Oil		6,500	5,704	796	7,900	5,902	1,998
Utitlities		107,800	82,433	25,367	107,800	86,735	21,065
Purchased Water		271,476	253,738	17,738	313,867	304,274	9,593
Testing		15,000	9,802	5,198	12,600	9,619	2,981
Depreciation		485,191	485,191	-	480,833	480,833	-
Total Greene, Route 15 and Route 20	_						
Water Operations	\$	1,449,310 \$	1,395,678	\$ 53,632 \$	1,497,115 \$	1,404,347	\$ <u>92,768</u>
Greene Sewer Operations:							
Operating Labor	\$	144,400 \$	94,471	\$ 49,929 \$	139,940 \$	107,585	\$ 32,355
Engineering and Design	Ψ	7,064	8,912	(1,848)	6,892	8,922	(2,030)
Maintenance		241,288	250,460	(9,172)	235,972	205,569	30,403
Treatment Supplies and Materials		26,000	14,423	11,577	25,000	21,092	3,908
Vehicle Expense/Gas & Oil		7,650	4,959	2,691	7,750	6,088	1,662
Utilities		90,000	88,248	1,752	88,000	85,630	2,370
Testing/Biosolids Mgmt		46,000	46,323	(323)	42,000	52,042	(10,042)
Depreciation		669,230	669,230	-	629,230	629,230	-
Total Greene Sewer Operations	\$	1,231,632 \$	1,177,026	\$ 54,606 \$	1,174,784 \$	1,116,158	\$ 58,626
Madison Water & Sewer Operations:							
Operating Labor	\$	111,395 \$	134,395	\$ (23,000)\$	120,934 \$	120,182	\$ 752
Engineering and Design	Ψ	2,852	909	1,943	2,140	1,651	489
Maintenance		74,266	63,760	10,506	72,600	58,766	13,834
Vehicle Expense/Gas & Oil		2,900	3,000	(100)	2,900	3,135	(235)
Utilities Utilities		41,500	33,118	8,382	39,500	35,838	3,662
Treatment Supplies & Materials		12,500	20,592	(8,092)	14,000	13,206	794
Testing Biosolids Mgmt		15,600	11,299	4,301	12,200	11,059	1,141
Depreciation		106,200	106,200	-	99,247	99,247	-
Total Madison Water & Sewer Operations	\$	367,213 \$	373,273	\$ (6,060) \$	363,521 \$	343,084	\$ 20,437
_	_			· -			

Comparative Schedule of Operating Expenses-Budget and Actual Years Ended December 31, 2017 and 2016 (Continued)

			2017					2016		
					ariance					Variance
		Pudget	Actual		avorable favorable)	Rudget		Actual	(Favorable Unfavorable)
Gordonsville Sewer Operations:	_	Budget	Actual	(UII	<u> </u>	Budget	_	Actual		Omavorable)
Operating Labor	\$	79,323 \$	48,722	©	30,601 \$	74,491	Φ	49,128	Φ	25,363
Engineering and Design	φ	2,843	5,252	φ	(2,409)	5,000	Ψ	3,175	φ	1,825
Maintenance		83,000	47,953		35,047	59,000		89,664		(30,664)
Treatment Supplies & Materials		8,000	6,884		1,116	5,000		6,332		(1,332)
Vehicle Expense/Gas & Oil		3,000	1,935		1,065	2,500		3,715		(1,332) $(1,215)$
Purchased Water		500	428		72	500		3,713		(1,213)
Utilities		52,000	46,437		5,563	52,000		48,268		3,732
Testing Biosolids Mgmt		13,000	12,564		436	10,000		15,403		(5,403)
Depreciation		99,795	99,795		430	95,402		95,402		(3,403)
	\$	341,461 \$	269,970	Φ	71,491 \$	303,893	φ_	311,531	Φ_	(7 (29)
Total Gordonsville Sewer Operations	D _	341,401 \$	209,970	» <u>—</u>	71,491 5	303,893	D _	311,531	_ _⊅ _	(7,638)
Engineering:										
Operating Labor	\$	77,886 \$	56,301	\$	21,585 \$	74,794	\$	66,535	\$	8,259
Engineering & Design		160,958	52,718		108,240	159,717		53,991		105,726
Maintenance		32,265	33,144		(879)	31,779		31,996		(217)
Vehicle Expense/Gas & Oil		5,000	5,797		(797)	7,000		3,996		3,004
Engineering Allocation		(191,450)	(87,776)		(103,674)	(194,884)		(85,897))	(108,987)
Depreciation		3,857	3,857		-	3,760		3,760		_
Total Engineering	\$	88,516 \$	64,041	\$	24,475 \$	82,166	\$	74,381	\$	7,785
Maintenance:										
Operating Labor	\$	66,319 \$	49,614	\$	16,705 \$	67,875	\$	52,024	\$	15,851
Maintenance	Ψ	146,462	100,798	Ψ	45,664	150,111	Ψ	92,466	Ψ	57,645
Materials for Resale		8,300	7,220		1,080	8,300		16,387		(8,087)
Utilities		4,000	2,551		1,449	5,800		2,205		3,595
Vehicles		10,000	5,790		4,210	15,000		3,266		11,734
Gas and Oil		8,500	7,687		813	12,500		4,962		7,538
Maintenance Allocation		(136,319)	(91,666)		(44,653)	(133,613)		(83,586)	١	(50,027)
Depreciation Depreciation		21,428	21,428		(11,033)	24,218		24,218	'	(30,027)
Total Maintenance	\$	128,690 \$	103,422	\$	25,268 \$	150,191	<u>\$</u>	111,942	\$	38,249
	-	··			··		_	,		
Orange East Water & Sewer Operations: Operating Labor	\$	556,813 \$	501,425	c	55,388 \$	657,437	Φ	568,085	Ф	20.252
Engineering and Design	φ	60,219	10,363	Φ	49,856	59,627	Φ		φ	89,352 46,712
								12,915		
Maintenance New Service Installations		629,500	792,688 75,295		(163,188) (20,295)	654,241		486,177		168,064 19,310
		55,000			48,842	57,800		38,490 359,762		
Treatment Supplies & Materials Utilities		395,800	346,958 550,269		48,842 124,731	393,000				33,238 75,421
		675,000				691,000		615,579		
Vehicle Expense/Gas & Oil		62,000	58,555		3,445	66,000		53,385		12,615
Testing/Biosolids Mgmt		175,000	159,793 1,274,821		15,207	71,000		69,045		1,955
Depreciation Total Orange East Water & Sewer Operations	φ_	1,274,821 3,884,153 \$	3,770,167		113,986 \$	1,263,600 3,913,705	φ_	1,263,600 3,467,038	- _{\$} -	446,667
•	φ_	J,004,133 D	3,770,107	Ψ	113,700 D	3,713,703	Ψ_	3,407,030	φ	
TOTALS	\$_	8,595,617 \$	8,173,542	\$	422,075 \$	8,566,995	\$_	7,882,086	\$_	684,909

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 61 through 65

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 66 through 71

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 72 through 73

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 74 through 76

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

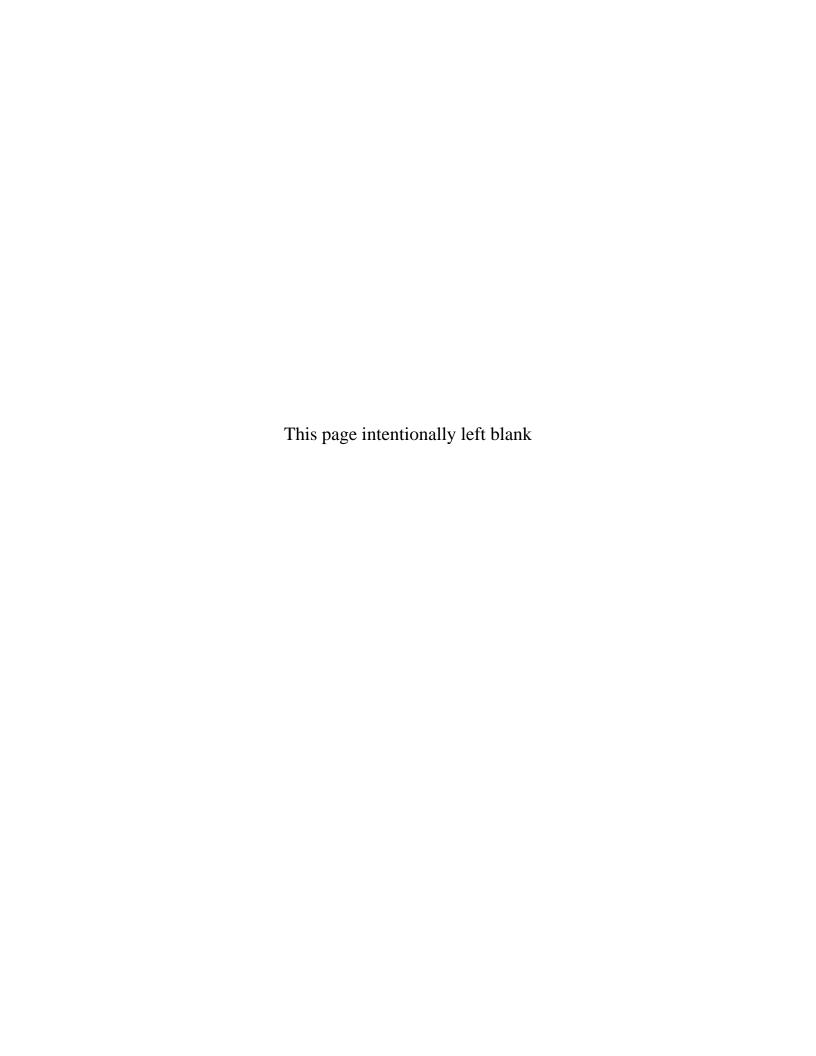
Tables 17 through 18

Pages 77 through 78

These schedules contain 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.



Net Position by Component Last Ten Fiscal Years

Primary Government	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Net investment in capital assets	\$ 39,536,518	\$ 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
Unrestricted	7,127,923	7,483,019	5,610,948	7,312,379	7,457,077	7,844,403	6,639,933	6,770,465	7,339,472	8,117,866
Total primary government net position	\$ 46,664,441	\$ 52,723,797	\$ 55,110,971	\$ 57,659,149	\$ 57,247,142	\$ 57,830,466	\$ 57,804,243	\$ 57,618,780	\$ 57,803,275	\$ 57,438,284

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

Fiscal Year	Operating Revenues	Operating Expenses	Total Nonoperating Revenues/ (Expenses)	Income/(Loss) before Capital Contributions	Capital Contributions	Change in Net Position
2008	5,231,349	6,507,710	636	(1,275,725)	3,075,606	1,799,881
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)

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

Fiscal Year	Water Revenues	Sewer Revenues	Other Revenues	Total
2008	2,037,847	2,870,225	323,277	5,231,349
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

Fiscal Year	Employment Costs	Operations	Utilities	Administrative	Subtotal, Expenses before Depreciation	Depreciation	Total Operating Expenses
2008	2,329,683	1,185,894	771,235	451,658	4,738,470	1,769,240	6,507,710
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

Nonoperating Revenues and Expenses Last Ten Fiscal Years

Fiscal Year	Interest Earned	Interest Expense	Gain on Disposal of Assets	Other Costs	Other Income	Lease Income	Availability Income	Total Nonoperating Income/(Expenses)
2008	405,303	(590,304)	1,050	672	71,129	112,786	-	636
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)

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

Water Consumed and Wastewater Treated Last Ten Fiscal Years

Fiscal Year	Gallons of Water Purchased/ Treated (Millions)	Gallons of Wastewater Treated (Millions)
2008	603.5	422.2
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

Data internally compiled from Rapidan Service Authority.

Annual Number of EDU's Purchased Last Ten Fiscal Years

Fiscal Year	Water EDUs*	Sewer EDUs*	Total EDUs*
2000	21	22	62
2008	31	32	63
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

^{*} Equivalent Dwelling Units Data internally compiled from Rapidan Service Authority

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

					Wa	iter					
			Reside	ntial			1	Non-Resi	dential		
Fiscal		Rte 15		LOW/			Rte 15		LOW/	<u> </u>	
Year	Greene	G'ville	Rte 20	Wilderness	Madison	Greene	G'ville	Rte 20	Wilderness	Madison	Total
•				4.000			4.0			100	- 400
2008	2,281	93	132	4,250	175	269	19	12	68	109	7,408
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

					Se	ewer					
			Reside	ntial			1	Non-Resi	dential		
Fiscal		Rte 15		LOW/			Rte 15		LOW /		
Year	Greene	G'ville	Rte 20	Wilderness	Madison	Greene	G'ville	Rte 20	Wilderness	Madison	Total
2008	568	686	0	4,281	90	105	14	0	69	84	5,897
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

Fiscal Year	Greene County	LOW / Wilderness
2008	38	577
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

Non-Users

Water and Sewer Rates Last Ten Years

	_			W	ater Rate	per 1,000 (Gallons				
	-	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Greene County	\$	3.30 \$	3.30 \$	3.30 \$	3.30 \$	3.30 \$	3.30 \$	3.30 \$	3.47 \$	3.47 \$	3.47
Rte 15		4.20	4.20	4.20	4.20	5.10	5.10	5.10	5.10	5.10	6.12
Rte 20		1.97	1.97	1.97	2.36	2.36	2.36	2.36	2.36	2.36	2.83
LOW/Wilderness		3.08	3.08	3.08	3.08	3.08	3.08	3.08	3.08	3.08	3.70
Madison County		3.85	3.85	3.85	3.85	3.85	4.62	5.08	5.59	5.59	5.59
Gordonsville (Contract)		3.14	3.15	3.06	3.26	3.83	3.83	4.30	4.30	4.30	5.16

Sewer Rate per 1,000 Gallons

	-	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Greene County	\$	6.58 \$	7.24 \$	7.60 \$	7.98 \$	7.98 \$	7.98 \$	7.98 \$	8.38 \$	8.38 \$	8.38
Gordonsville		6.83	6.83	6.83	6.83	6.83	6.83	6.83	6.83	6.83	8.54
LOW/Wilderness		7.35	7.35	11.39	11.39	11.39	11.39	11.39	11.39	11.39	12.53
Madison County		7.20	7.20	7.20	7.20	7.20	8.64	9.50	10.45	10.45	10.45

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, 2017

		Water	 Sewer
Greene County Water & Sewer Systems	_		
Minimum Monthly Charge 0-2000 gal.	\$	9.94	\$ 24.82
Rate Per 1000 Gallons	\$	3.47	\$ 8.38
% of Water Usage			100%
Non-Residential (Existing Accounts Only)	150%	of above rates	
Unmetered Accounts - Flat Fee			\$ 58.34
Availability Fee Per EDU	\$	10,000.00	\$ 10,000.00
Greene County Facility Fee - Res/NonRes		\$10.00/20.00	\$10.00/20.00
Orange County, Rte. 15 Water System	_		
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	\$	5.16	
Orange County, Rte. 20 Water System			
Minimum Monthly Charge 0-2000 gal.	\$	8.66	
Rate Per 1000 Gallons:	\$	2.83	
Availability Fee Per EDU	\$	10,000.00	
Gordonsville Sewer System			
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
Lake Of The Woods/Wilderness Water & Sewer Systems			
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
Madison Water & Sewer Systems			
Minimum Monthly Charge 0-2000 gal.	\$	14.18	\$ 23.90
Rate Per 1000 Gallons	\$	5.59	\$ 10.45
% of Water Usage			90%
Availability Fee Per EDU	\$	10,000.00	\$ 10,000.00
Unmetered Accounts - Flat Fee			\$ 61.52
Summer Conservation Surcharge (All water systems)			
Water billed for usage over 6000 gallons (July-October)	Addition	al \$1.00/1000 Gallons	

Five Largest Customers Current Year and Ten Years Ago

2008

Customer	Туре	Annual Consumption
Customer 1	Municipality	75,026,500
Customer 2	Greene County Public School System	4,840,900
Customer 3	Nursing Home Facility	4,558,900
Customer 4	Commercial Complex	4,247,600
Customer 5	Homeowners Association	4,116,100

2017

Customer	Type	Annual Consumption		
Customer 1	Municipality	68,940,800		
Customer 2	Nursing Home	4,762,500		
Customer 3	Greene County Public School System	4,351,900		
Customer 4	Madison County Public School System	3,385,800		
Customer 5	Mobile Home Park	3,027,200		

Ratio of Outstanding Debt Last Ten Fiscal Years

Fiscal Year	Revenue Bonds	Revenue Note	Premium on Bonds	Deferred Refunding	Total Debt (1)	Number of Accounts (2)	Debt per Account
2008	12,615,298	280,000	190,175	(364,500)	12,720,973	13,920	914
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	-	10,509,778	14,911	705
2017	8,891,823	100,000	209,567	-	9,201,390	15,507	593

⁽¹⁾ Does not include compensated absences

⁽²⁾ Accumulation of water, sewer and non-user accounts

Pledged-Revenue Coverage Last Ten Fiscal Years

Period Ended December 31,	Gross Revenues (1)	Operating Expenses (2)	Available for Debt Service	Principal	Debt Service Requirements Interest (3)	Total	Coverage
2008	6,315,617	4,737,798	1,577,819	786,689	590,304	1,376,993	1.15
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

⁽¹⁾ Includes availability fees & WQIF Grant funds received

⁽²⁾ Excludes depreciation

⁽³⁾ Interest does not include CIP interest during construction

		Greene	County	
Calendar Year	Population (1)	Per Capita Income	Total Personal Income (2)	Unemployment Rate (3)
2008	18,131	35,893	650,774,000	3.3%
2009	18,237	36,470	665,105,000	5.9%
2010	18,457	37,330	688,998,000	6.1%
2010	18,669	39,271	733,150,000	5.3%
2011	18,771	40,880	767,362,000	4.9%
2012	19,320	42,112	791,878,000	3.4%
2013	19,618	not available	not available	4.2%
2014	19,840	36,873	701,736,000	3.0%
2016	19,785	39,681	760,363,000	2.9%
2017	19,785	40,175	778,226,000	3.5%
2017	17,703			3.370
	D 1.0	Madison	· ·	TT 1
Calendar	Population	Per Capita	Total Personal	Unemployment
Year	(1)	Income	Income (2)	Rate (3)
2008	13,332	34,758	463,398,000	0.0%
2009	13,358	34,266	457,724,000	0.0%
2010	13,289	34,697	461,095,000	0.0%
2010	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%
	,			
Calendar	Population	Orange Per Capita	Total Personal	Unemployment
Year	(1)	Income	Income (2)	Rate (3)
2008	33,077	34,109	1,128,207,000	0.0%
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%
	34,015	39,190	1,372,657,000	4.0%
2015	57,015	,		
2015 2016	33,777	42,166	1,492,044,000	3.7%

⁽¹⁾ Data compiled through the Weldon Cooper Center for Public Service and is subject to changes as estimates are refined

⁽²⁾ Data complied 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

Fiscal					
Year	Greene	Madison	Orange		
2008	96	45	104		
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		

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

Principal Employers Current Year and Ten Years Ago

	2008		2017				
	Employer	# of Employees	Employer	# of Employees			
Greene County	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			
	Blue Ridge School	50 - 99 Employees	Sunland Employee Leasing LLC	100 - 249 Employees			
	Food Lion, Inc	50 - 99 Employees	Lowe's Home Centers, Inc	100 - 249 Employees			
Madison County	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	250 - 499 Employees			
	County of Madison		Autumn Corporation	100 - 249 Employees			
	Autumn Corporation	100 - 249 Employees	County of Madison	100 - 249 Employees			
Orange County	Orange County School Board	500 - 999 Employees	Orange County School Board	500 - 999 Employees			
g	County of Orange	1 *	American Woodmark Corp	250 - 499 Employees			
	Von Holtzbrink Publishing		Von Holtzbrink Publishing	250 - 499 employees			
	Germanna Community College	250 - 499 Employees	9	250 - 499 employees			
	Food Lion, Inc		Germanna Community College	250 - 499 employees			

Data compiled through Virginia Employment Commission using 3rd quarter 2017 and 3rd quarter 2008 figures

Number of Employees by Identifiable Activity Last Ten Fiscal Years

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Plant Operators	14	14	14	14	14	15	17	15	14	14
Maintenance / Construction	18	18	18	18	18	15	14	14	13	14
Admin/Customer Service/Engineering	12	12	12	12	12	11	10	10	10	11
Total		44	44	44	44	41	41	39	37	39

RAPIDAN SERVICE AUTHORITY

Operating and Capital Indicators Last Ten Fiscal Years

Drinking Water	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Water Produced/Purchased										
(millions of gallons)	214.4	202.6	210.2	206.4	205.2	212.6	222.0	220.1	210.4	205.0
Greene Rte. 15	214.4 103.0	202.6 103.1	218.2 113.7	206.4 96.2	205.2 101.5	212.6 99.2	223.8 98.0	220.1 110.7	210.4 101.1	205.9 81.0
Rte 20	7.7	7.8	7.7	7.6	7.3	7.2	98.0 6.9	7.4	6.5	6.7
LOW/Wilderness	251.0	7.8 244.5	270.2	264.0	262.0	265.6	268.3	231.5	282.5	274.8
Madison	27.4	27.5	28.2	204.0	27.0	203.0	208.5	251.5	25.8	28.2
Wadison	27.4	21.3	20.2	21.1	27.0	29.1	24.0	23.9	23.6	20.2
Water Storage Capacity										
(gallons)										
Greene	2,532,000	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
Miles of Water Mains										
Greene	74	76	76	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	71	73	73	73	73	73
Madison	8	8	8	8	8	8	8	8	8	8
N I CO 4 ADI 4	2	2	2	2	2	2	2	2	2	2
Number of Treatment Plants	3	3	3	3	3	3	3	3	3	3
Wastewater Treatment										
Miles of Sewer Line										
Greene	34	40	40	42	42	42	42	42	42	42
Gordonsville	17	17	17	17	18	18	18	18	18	18
LOW/Wilderness	88	88	88	89	89	90	90	90	90	90
Madison	3	3	3	3	3	3	3	3	3	3
Number of Treatment Plants	5	5	5	5	5	5	5	5	5	5
Amount Treated Annually (millions of gallons)										
Greene	50.5	57.4	63.9	64.3	63.4	64.8	71.0	71.8	66.8	72.0
Gordonsville	112.0	142.7	115.0	116.5	111.4	155.3	126.6	126.0	112.1	87.0
LOW/Wilderness	238.9	247.3	257.9	287.3	282.5	321.9	291.9	282.9	260.2	273.6
Madison	20.8	19.2	17.4	19.3	16.2	19.1	18.1	22.6	25.3	25.1

Fact Sheet

The Rapidan Service Authority (RSA) presently employs 39 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 six 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 250 fire hydrants, equal approximately 78 miles of mains. The Greene County water system serves over 2,866 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 971 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 148 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.

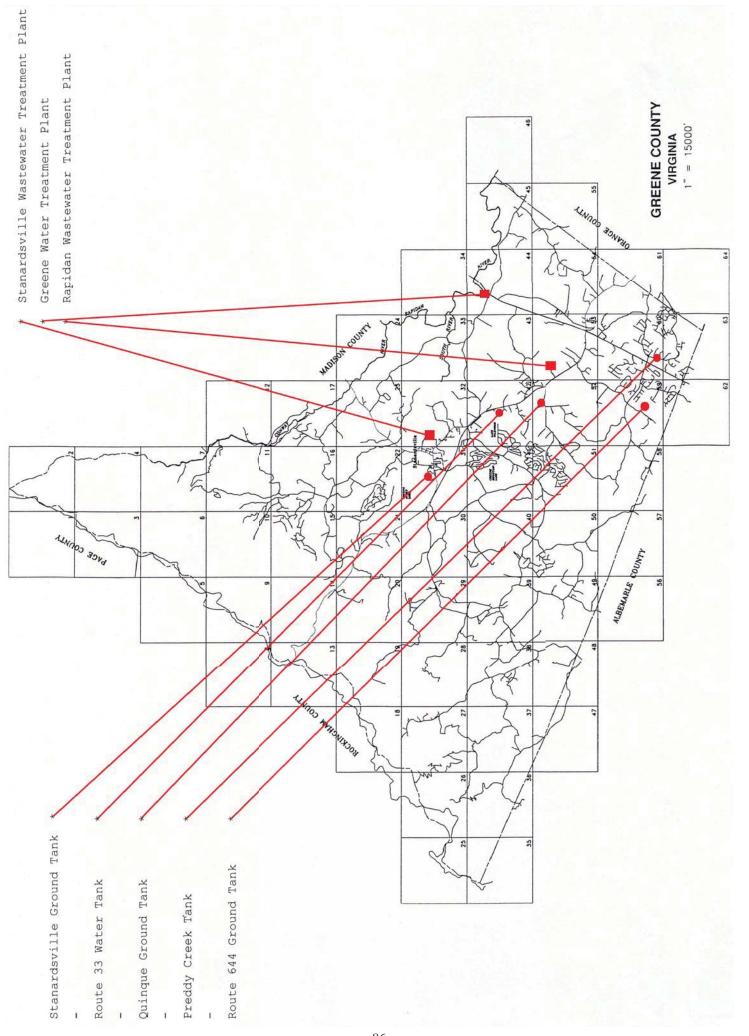
On November 1, 1987, RSA acquired ownership of the Lake of the Woods (LOW) water and sewer system. The original LOW system has been expanded and now includes Wilderness Shores, Somerset Farms, Germanna Community College, Germanna Heights and commercial development along Route 3. The RSA East system is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

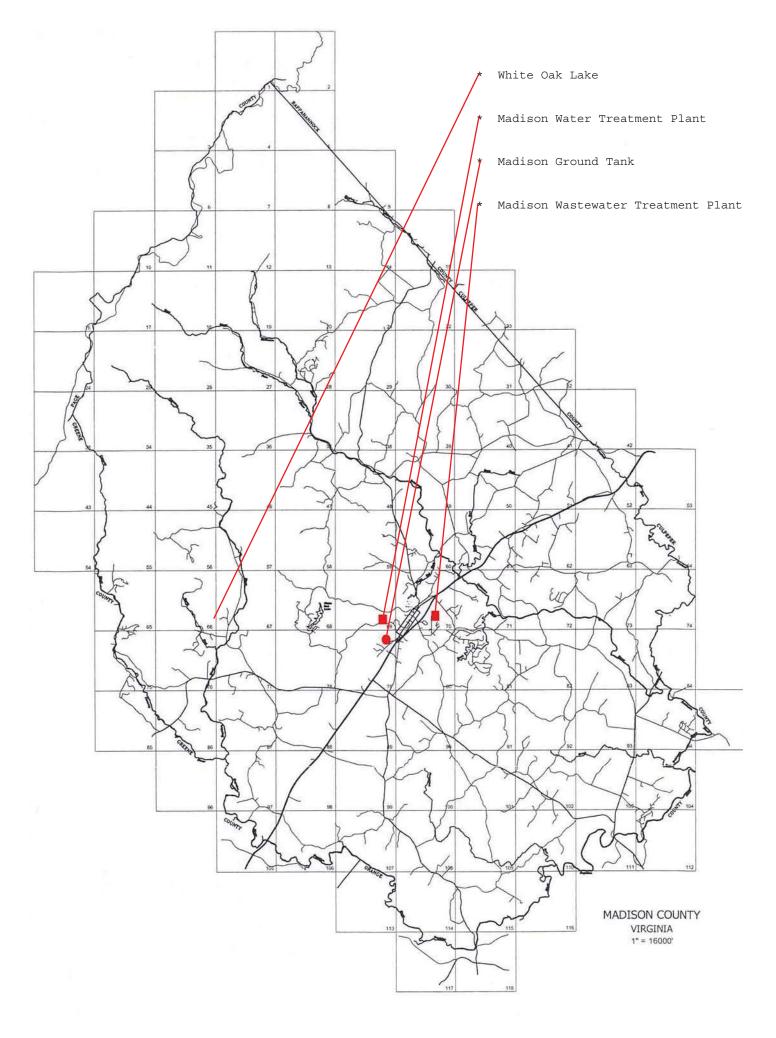
The East system consists of 2½" to 12" PVC and AC mains and 144 fire hydrants. Water storage consists of a 300,000 gallon ground steel storage tank with a booster pump station rated at 250 gpm, and a 500,000 gallon elevated steel tank. In 1991, a 1.6 million gpd water treatment plant was put into service, 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 4,600 connections on the East system including 5 subdivisions and 3 shopping centers.

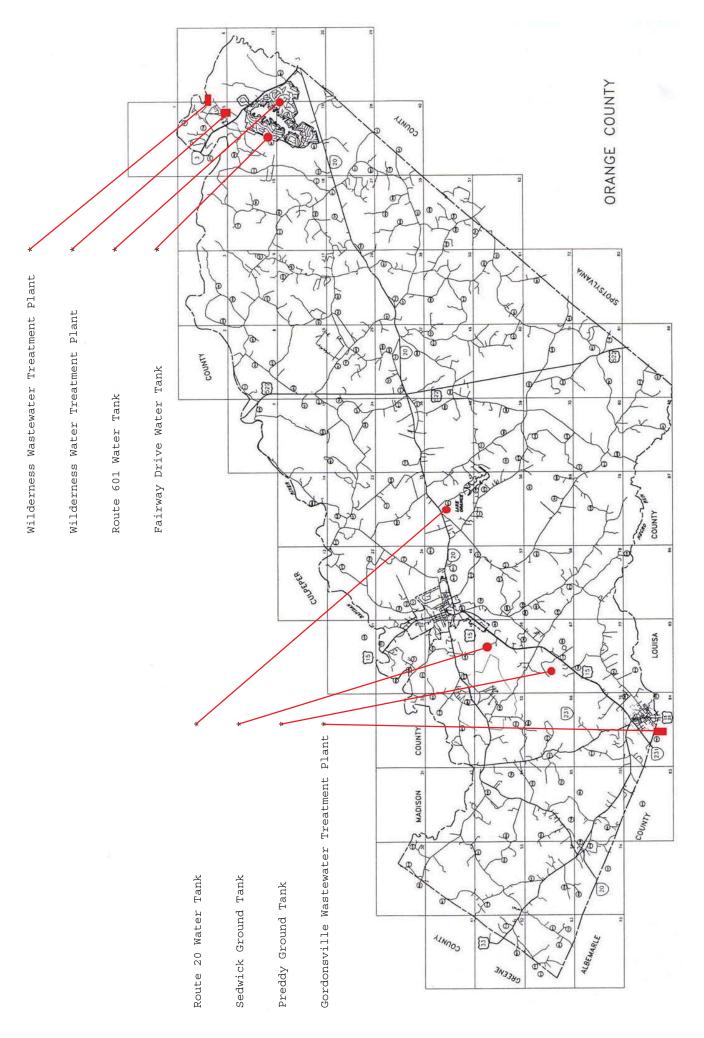
The LOW sewer system consists of a vacuum collection system with 13 vacuum stations and three lift stations. The system contains 4" to 10" vacuum mains, 10" concrete gravity mains, 3" to 8" PVC force mains and approximately 1,600 holding tanks. Sewage is held in these tanks until the vacuum pumps collect 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 plugvalves. 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 4,635 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 dechlorinated for the two aerobic zones. Also, 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.







ROBINSON, FARMER, COX ASSOCIATES

A PROFESSIONAL LIMITED LIABILITY COMPANY

CERTIFIED PUBLIC ACCOUNTANTS

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

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, 2017, 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 April 13, 2018.

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, Cas Associates Charlottesville, Virginia

April 13, 2018