TOWN OF BOWLING GREEN TOWN COUNCIL MEETING

AGENDA

Thursday November 07, 2019 7:00 PM

CALL TO ORDER AND QUORUM ESTABLISHED:

PUBLIC HEARINGS:

1. O-2019-005 – Amendment to enhanced speeding fines

DELEGATIONS:

Andy Crocker - SERCAP, Inc.

PUBLIC COMMENTS:

STAFF REPORTS & PRESENTATIONS:

- 3. Police Department Monthly Report to Council October 2019
- 4. Public Works and Utilities Dept. Monthly Report to Council October 2019
- 5. Events & Economic Development Coordinator Monthly Report to Council October 2019
- 6. Town Clerk/Treasurer's Monthly Report to Council October 2019

CONSENT AGENDA:

- October 2019 Bills
- 8. Minutes September 5, 2019 Town Council Meeting
- 9. Minutes October 3, 2019 Town Council Meeting

NEW BUSINESS:

- 10. Request for Water Bill adjustment due to leak
- 11. Source Water Protection Plan
- 12. Text Amendment to R-1, Special Use

REPORT OF COUNCIL COMMITTEES/MEMBER COMMENTS:

INFORMATIONAL ITEMS:

13. Veteran's Day Program Invitation

CLOSED SESSION:

14. Planning Commission Appointment

RECONVENE IN OPEN SESSION

ADJOURNMENT



TOWN OF BOWLING GREEN TOWN COUNCIL MEETING AGENDA ITEM REPORT

AGENDA ITEM: O-2019-005 – Amendment to enhanced speeding fines

ITEM TYPE: Public Hearing - Duly Advertised

PURPOSE OF ITEM: Decision - By Motion

PRESENTER: David Lipscomb, dlipscomb@townofbowlinggreen.com

PHONE: (804) 633-6212

BACKGROUND / SUMMARY:

Ordinance O-2019-004 adding enhanced speeding fines to Town Code is being amended by recommendation of the General District Court Judge.

ATTACHMENTS:

• Advertisement run in Free Lance Star

• O-2019-005

REQUESTED ACTION:

Adopt proposed Ordinance.

Town of Bowling Green, Virginia Notice of Public Hearing

A public hearing will be held by Town Council on Thursday, November 7, 2019, beginning at 7:00 PM in the Bowling Green Town Hall, 117 Butler Street, Bowling Green, Virginia, to receive comments on **ORDINANCE NUMBER O-2019-005 ENHANCED SPEEDING PENALTY ON CERTAIN RESIDENTIAL STREETS**;

SIGNS. The purpose of this ordinance is to implement the enhanced speeding penalties authorized by Code of Virginia, § 46.2-878.2 for operation of a motor vehicle in excess of the maximum speed limit on certain residential streets. The provisions of this ordinance shall apply to Main Street (Route2/301) within the corporate limits of the Town of Bowling Green. All interested persons are encouraged to attend the meeting and provide comments. If special accommodations are needed in order to participate, please contact the Town Manager in advance of the meeting.

A complete copy of **ORDINANCE NUMBER O-2019-005** is posted on the Town's web site at https://www.townofbowlinggreen.com/ and is available for public inspection weekdays from 9:00 AM until 5:00 PM at the Bowling Green Town Hall, 117 Butler Street, Bowling Green, Virginia, 22427. Questions about the ordinance may be directed to A. Reese Peck, Town Manager. 804-633-6212.

Authorized by A. Reese Peck, Town Manager

An Ordinance to amend Sec. 4-470. - Enhanced speeding penalty on certain residential streets; signs.

Sec. 4-470. - Enhanced speeding penalty on certain residential streets; signs.

Purpose. The purpose of this section is to implement the enhanced speeding penalties authorized by Code of Virginia, § 46.2-878.2¹ for operation of a motor vehicle in excess of the maximum speed limit on certain residential streets.

Applicability. The provisions of this section shall apply to Main Street (Route2/301) within the corporate limits of the Town of Bowling Green.

Signs shall be posted on North and South Main Street (Route2/301) indicating the maximum speed along with the penalty.

Criteria. The Town has determined that the 85th percentile speed on such street, highway or other public way or portion thereof is ten miles per hour greater than the posted speed limit.

Violation. Operation of any motor vehicle in excess of a maximum speed limit established for a highway in a residence district of the City, when indicated by signs placed in accordance with the provisions of this section, shall be unlawful and shall constitute a violation of this section.

Penalty. Violation of this section shall constitute a traffic infraction punishable by a fine of <u>not more than</u> \$200.00, in addition to other penalties provided by law.

No portion of the fine shall be suspended unless the court orders 20 hours of community service.

The Commissioner of Highways or any local governing body having jurisdiction over highways shall develop criteria for the overall applicability for the installation of signs. Such criteria shall not exclude highways, functionally classified as minor arterials, serving areas that either (i) were built as residential developments or (ii) have grown to resemble residential developments, provided, in either case, (a) such highways are experiencing documented speeding problems and (b) the local governing body requests the application of this section to such highway.

Such signs may be installed in any town and shall not require the approval of the county within which such town is located.

Any such signs installed in any town shall be paid for by the town requesting the installation of the signs, or out of the county's secondary system construction allocation.

Adopted this 7th day of November, 2019 by the Town Council of Bowling Green, Virginia

Hon. Jason E. Satterwhite, Mayor	
	Melissa Lewis, Clerk of Council

¹ § 46.2-878.2. Maximum speed limits in certain residence districts of counties, cities, and towns; penalty.

Operation of any motor vehicle in excess of a maximum speed limit established for a highway in a residence district of a county, city, or town, when indicated by appropriately placed signs displaying the maximum speed limit and the penalty for violations, shall be unlawful and constitute a traffic infraction punishable by a fine of \$200, in addition to other penalties provided by law.



TOWN OF BOWLING GREEN TOWN COUNCIL MEETING AGENDA ITEM REPORT

AGENDA ITEM: Andy Crocker - SERCAP, Inc.

ITEM TYPE: Presentation

PURPOSE OF ITEM: Information Only

PRESENTER: Reese Peck, townmanager@townofbowlinggreen.com

PHONE: (804) 633-6212

BACKGROUND / SUMMARY:

And Crocker is the Virginia State Manager for Southeast Rural Community Assistance Project, Inc. (SERCAP), an organization that promotes afford able water and wastewater facilities. He will be discussing water distribution systems in communities similar to Bowling Green and setting sustainable rate structures to adequately fund improvements and operations.

Mr. Crocker will also discuss a training course he offers to governing boards in relation to the technical, managerial, and financial capacity of running a utility system.

ATTACHMENTS:

None

REQUESTED ACTION:

None



TOWN OF BOWLING GREEN TOWN COUNCIL MEETING MONTHLY REPORT / PROJECT UPDATE

AGENDA ITEM: Bowling Green Town Council Monthly Report for October 2019

DATE: 11/1/19

PREPARED BY: Chief David Lipscomb

MONTHLY REPORT / PROJECT UPDATE:

Statistical data:

41 Calls for Service (3 reportable)

78 Virginia uniform summonses written

44 Park walk and talk

57 advice calls

14 Motorist assists

3 Assist another agency

2 Motor vehicle crashes

5 Special events

Chief's Report:

Continuing process to have a VCIN/NCIC terminal installed at the office.

Assigned units to work 5 special events.

Assigned all units to work the annual Harvest Festival. There were no major incidents to report.

Assigned units to work Halloween night. This year the town had considerably more foot traffic than observed in years past. No incidents to report.

Started process to have the police department exterior cleaned and painted.

ATTACHMENTS:

See attached letter of thanks from Federal Motor Carrier Safety Administration.

HEADS UP ITEMS:

Police policy manual needs to be passed.



Safety Administration

Virginia Division 400 N. 8th St., Suite 780 Richmond, VA 23219-4827

Complaint ID: 100130852

10/22/2019

David Lipscomb, Police Chief P. O. Box 468 Bowling Green, VA 22427

Dear Police Chief David Lipscomb:

The purpose of this letter is to provide you with an update regarding your complaint concerning BRIGHT TRANSPORTATION LLC.

In response to your allegations, the Federal Motor Carrier Safety Administration (FMCSA) conducted an investigation on 10/18/2019 and violations of the FMCSRs were discovered. An enforcement action, which may include civil penalties against the motor carrier, is being prepared to address the motor carrier's noncompliance.

If you have evidence that these violations continue or other violations are occurring, please contact the FMCSA Division Office at Virginia Division, 400 N. 8th St., Suite 780, Richmond, VA 23219-4827, or call 804-771-8585.

Thank you for your interest in commercial motor vehicle and roadway safety.

Sincerely,

Leland H. McLennan, Jr.

For Craig A Feister

Division Administrator



TOWN OF BOWLING GREEN TOWN COUNCIL MEETING MONTHLY REPORT / PROJECT UPDATE

AGENDA ITEM: Council Monthly Report for October 2019

DATE: October 28, 2019

PREPARED BY: Billy Deavers

MONTHLY REPORT / PROJECT UPDATE:

Water

- Monthly Bac T samples were collected
- Working on getting twenty one more Lead and Copper sites for future testing
- Started hydrant flushing
- Meter reading was done October 21st through October 24th

Wastewater

- Parts are on order for Clarifier #1. Tank will be emptied, cleaned, and inspected.
- New sludge pump ordered to replace existing damaged one
- Operators are still studying and preparing for Wastewater examinations
- The plant is running well, with no exceptions to report
- Sewer project was completed

Public Works

- Applied lime and fertilizer to Town Hall and the Wastewater Plant
- Streets were swept on October 17th
- Normal grass cutting and trimming
- Finished edging sidewalks
- Replaced Town limit sign post on Courthouse Lane
- Set up/take down of Harvest Festival, and working throughout the day to empty trash cans and assist as needed

COMMONWEALTH OF VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) DISCHARGE MONITORING REPORT (DMR)

DEPT. OF ENVIRONMENTAL QUALITY (REGIONAL OFFICE)

Northern Regional Office 13901 Crown Court

Woodbridge, VA 22193

PERMITTEE NAME/ADDRESS (INCLUDE FACILTY NAME/LOCATION IF DIFFERENT)

NAME: ADDRESS:

FACILITY

LOCATION:

219 Anderson Ave Bowling Green, VA 22427

Bowling Green Wastewater Treatment Plant co Town of Bowling Green Bowling Green, VA 22427

VA0020737 PERMIT NUMBER DISCHARGE NUMBER MONITORING PERIOD

FROM 2019 09 01 TO 2019 09 30

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

Parameter		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO.	FREQUENCY	SAMPLE	LAB
	1 Г	AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS	EX.	OF ANALYSIS	TYPE	CODE
FLOW	REPORTD	0.084	0.12		****	****	****		0	CONT	TIRE	
PARAM CODE: 001	REQRMNT	0.25	NL	MGD -	*****	*****	*****	1		CONT	TIRE	
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PARAM CODE: 002	REQRMNT	****	*****	1 1	6.0	****	9.0	SU		I/DAY	GRAB	
TSS	REPORTD	0.38	0.74		****	1.2	2.3		0	3D/W	8HC	
PARAM CODE: 004	REQRMNT	9.5	14	KG/D	****	10	15	MG/L		3D/W	8HC	
DO	REPORTD	****	****	7 1	6.2	****	2222		0	1/DAY	GRAB	
PARAM CODE: 007	REQRMNT	****	****	1 1	5.0	*****	*****	MG/L		1/DAY	GRAB	
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PARAM CODE: 068	REQRMNT	2.8	4.2	KG/D	*****	3.0	4,5	MG/L		3D/W	8HC	
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PARAM CODE: 159	REQRMNT	9.5	14	KG/D	****	10	15	MG/L		3D/W	8HC	

GENERAL PERMIT REQUIREMENTS OR COMMENTS: OUTFALL-SPECIFIC COMMENTS: PARAMETER-SPECIFIC COMMENTS:

BYPASSES AND	TOTAL OCCURENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)		OPERATOR IN RES	SPONSIBLE CHARGE		
OVERFLOWS			William Dea	vers	1965000877			
certify under pena	ty of law that this docume	nt and all attachments were pre	pared under my direction or	TYPED OR PRINT	ED NAME	CERTI	IFICATE NUMBER	
upervision in accor evaluate the inform	dance with a system desig tion submitted. Based on	ned to assure that qualified pers my inquiry of the person or per ring the information, the inform	sonnel properly gather and sons who manage the system,	PRINCIPAL EXECUTIVE OFFI AGENT	4. 19. 19. 19. 19. 19. 19. 19. 19. 19. 19	TELEPHONE	8042211834	
f my knowledge ar	d belief, true, accurate, an	d complete. I am aware that the possibility of fine and imprisor	ere are significant penalties	TYPED OR PRINTED NAME	SIGNATURE		Date	

Page 1

Address Number	Street Name	Work Type	Description
117	Butler St	Water Sampling	Collect Bac T sample
117	Butler St	General Maintenance	Replace bolt in chair rack dolly
150	Courthouse Ln	Other - PW	Replace Town limit sign
206	N Main St	Landscaping	Water Planters
			252 Milford Street
252	Milford St	Garbage	Resident needs a new trash can and remove the damaged one
148	East Broaddus	Service Connect	Reconnect service
	Dickinson, Meadows, Roper,		
	Chase St., Anderson, Lee		
0	Heritage Circle, Caroline Manor	Meter Read	Read meters 1
104	South Main	Garbage	Clean trash from beside building from harvest festival
106	Cedar Lane	Other - PW	Organize cones and signage in warehouse and move some dirt from driveway
219	Anderson Ave	Landscaping	Apply lime and fertilizer around public works building
	West Broaddus, South Main,		
0	North Main and Milford St.	Special Events Set-up	Put up no parking signs
117	North Main St.	Special Events Set-up	Setup tents with tables and chairs for pumpkin carving
0	North Main and South Main	Other - PW	Deliver cones to block off streets to designated areas
124	South Main	Special Events Set-up	Put up beer garden fence
117	Butler St.	Landscaping	Apply fertilizer and lime to grounds

- ■HURSDAY (8AM 1PM): Coordinate with Waste Management for dumpster placement.
- ERIDAY MORNING: (Cedar Lane): Retrieve pavers and place accordingly:

?North Main (NM); Place at Caroline County Admin Building next to sign.

?Business District (A); Place on corner of Courthouse and Main (Courthouse Lawn)

?South Main (SM); Place at former Flower Fashions (Milford and Main)

- BRIDAY: Rope off "Used Car" property *We need every inch of space for the Car Show.
- ⁴NO PARKING' signs; Signs should state "NO PARKING (FRIDAY 7PM SATURDAY 7PM)
- •图) 'NO PARKING' signs in Rite Aid parking lot, on Broaddus Avenue, for employees.
- Trash cans *Need plenty at the Car Show. In the past, we've had some issues with overflowing trash.

Let's try to make sure that doesn't happen this year. Please have a plan in place to make sure that trash

cans are emptied regularly throughout event day.

- •Street sweeper??
- •᠒) 'Transportation Pick-Up' signs from Cedar Lane.
- •᠒) 'Handicapped Parking' signs *To be placed at Calvary Baptist Church
- Lost & Found' sign to be placed to the side of the courthouse lawn monument's concrete foundation.
- Tractor Display' sign to be placed near the sidewalk on the Verizon property.
- ERIDAY; secure the Beer Garden area with fencing.
- PRIDAY: Entertainment stage is being delivered Friday between 3pm-5pm. I will need for you guys to hang the large sponsorship banner (at Town Hall) and the old McKesson banner (at Cedar Lane) BEFORE the roof of stage is erected.
- (№5) Hay bales at Entertainment Stage
- Dried corn stalks zip tied to Entertainment Stage and Pumpkin Decorating tents.
- •图) 100' heavy duty extension cords located at the Entertainment Stage.
- Beserve 1st row of parking behind Bowling Green Suites for entertainers (Cones and Caution tape)
- Reserve 1st row of parking at Town Hall for sponsors (Need 8 large cones)
- ®Need (4) large cones placed by the radio tower fence line to designate an area for the petting zoo trailer.

375 Roper Drive

Please turn on water

Roper Dr **Customer Complaint**

Special Events Set-up

Thanks

Butler St

117

375

16370 Heritage Pine Circle

16370 Heritage Pines Cir Service Connect

Turn on Water please

219	Anderson Ave	Clean Drying Beds	Getting up drying bed #4
101	Butler St	Mowing	Mow Police Department and playground and well1
17573	AP Hill Blvd	Mowing	Mow intersection of Broaddus and AP Hill Blvd
17573	AP Hill Blvd	Mowing	Mow 301 liftstation
0	North Main and Courthouse	Sewer Blockage - Main	Sewer line are Main and Courthouse is blocked backing up in 911 bathrooms
0	Milford St.	Other - PW	Put out door hangers
0	Cedar Lane warehouse	Other - PW	Test portable generator
219	Anderson Ave	Mowing	by Alan
0	abandon well	Mowing	by Alan
0	Lacey lane	Mowing	by alan
0	vdot	Mowing	by alan
0	rt 2 welcome sign	Mowing	
301	welcome and underpass	Mowing	
207	welcome sign	Mowing	by alan
207	billboard	Mowing	cut grass
301	welcome sign	Mowing	Mow and weedeat welcome sign
219	Anderson Ave	Mowing	
			117 Butler Street
			Toilet issue in the men's BR
117	Butler St	Building Maintenance	Thank you
206	N Main St	Landscaping	Water Planters
119	Butler St	Special Events Set-up	Set up for a meeting
			172 Maury Ave
			take an extra trash can please
172	Maury Ave	Garbage	
125	Lee St.	Service Connect	Cut service on
0	South Main St.	Hydrant Maintenance	Fall maintenance of all hydrants on South Main St.
121	Oak Ridge St.	Hydrant Maintenance	Fall hydrant maintenance
0	Lafayette Ave	Hydrant Maintenance	Fall maintenance of all hydrants on Lafayette
0	Jackson Dr.	Hydrant Maintenance	Fall maintenance of all hydrants on Jackson
0	Harrison Way	Hydrant Maintenance	Fall maintenance of all hydrants on Harrison
0	Harding Drive	Hydrant Maintenance	Fall maintenance of all hydrants on Harding Drive
0	Grant Ct	Hydrant Maintenance	Fall maintenance of all hydrants on Grant Ct.
121	Gill St. and 131 Gill St.	Hydrant Maintenance	Fall hydrant maintenance
1400	Farmer Dr.	Hydrant Maintenance	Fall hydrant maintenance
0	Coolidge Lane	Hydrant Maintenance	Fall hydrant maintenance on all hydrants
242	Milford St.	Hydrant Maintenance	Fall hydrant maintenance

255	Milford St.	Hydrant Maintenance	Fall hydrant maintenance
0	Maury Ave	Hydrant Maintenance	Fall maintenance of hydrants on Maury Avenue
121	Dorsey Lane	Hydrant Maintenance	Hydrant maintenance
117	South Main St.	Hydrant Maintenance	Hydrant maintenance
101	North Main St.	Hydrant Maintenance	Hydrant maintenance
111	Ennis	Hydrant Maintenance	Hydrant maintenance
		•	125 Lee Street
			Dis-connect water service
125	Lee St	Building Maintenance	leasing company's request 10/09/19
0	Bowling Green Meadows liftstation	-	Pump #2 isn't priming need Jimmy to come and check it
0	Edward Rd and Elm St.	Other - PW	Mark utilities
0	Richmond Turnpike	Other - PW	Mark utilities
17405	Jackson Dr.	Other - PW	Mark utilities
107	Butler St	Other - PW	
17573	AP Hill Blvd	Other - PW	Test Generator at 301 liftstation
107	Butler St.	Landscaping	Spread 90 yards of mulch in playground
225	Milford St.	Other - PW	Mark water line for Kelvic
104	North Main	Other - PW	Water planters
0	Well 4	Other - Water Utility	Replace chlorine feed lines they were leaking
117	Butler St	Special Events Breakdown	Town Council meeting TAKEDOWN
117	Butler St	Special Events Breakdown	TOWN COUNCIL Meeting Takedown
117	Butler St.	Special Events Set-up	Setup for Council meeting
17469	Coolidge Lane	Other - PW	Mark utilities
15488	School Rd	Other - PW	Mark utilities
217	Maury Ave	Hydrant Maintenance	Flush and service hydrant
209	Maury Ave	Hydrant Maintenance	Flush and service hydrant
140	Maury Ave	Hydrant Maintenance	Flush and service hydrant
117	Maury Ave	Hydrant Maintenance	Flush and service hydrant
130	South Main	Hydrant Maintenance	Flush and service hydrant
120	Milford St.	Hydrant Maintenance	Flush and service hydrant
117	South Main	Hydrant Maintenance	Flush and Maintenance
101	Ennis St.	Hydrant Maintenance	Flushing and Maintenance
0	Bowling Green Meadows liftstation	Mowing	Mow Bowling Green Meadows liftstation
380	Roper Dr	Mowing	Mow Bowling Green Meadows Park
106	Cedar Ln	Other - PW	Unload pavers of pickup
106	Cedar Ln	Mowing	Mow Well 4
107	Butler St	Mowing	Mow Police Department and playground and well1
		-	• • • •

117	Butler St	Mowing	Mow Town Hall
161	South Main	Trimming	Trim grass around fire hydrant
0	South Main Median	Mowing	Alan completed
0	All Town welcome signs	Trimming	Trim all flowering back
			Get fifteen additional lead and copper testing sites find out year
219	Anderson Ave	Other - Water Utility	range of homes and if pipes have been changed.
			Friendly reminder to adjust schedules for upcoming meter cut offs. Date of cut offs will be
117	Butler St	Other - Water Utility	October 17 & 18
			155 Roper Dr
155	Roper Dr	Meter Re-Read	Meter re-read, customer complaint high usage
			117 Butler Street - 10/01/19
			Please retrieve the 4'x 12' Harvest Festival banner from behind Judy's desk at Town Hall
			and install it at Samson's Used Car dealership on the corner of Broaddus and Main.
			Do not obstruct other signage on the property. Objective is for highest visability for traffic
117	Butler St	Special Events Set-up	headed into Town from Rt. 2. Contact Jo-Elsa with questions. 804-516-5045
219	Anderson Ave	Other - Water	Completed monthly VDH well sheets
219	Anderson Ave	Other - Water	Completed quarterly water withdrawal
-			16370 Heritage Pines Cir
16370	Heritage Pines Cir	Service Disconnect	Please dis-connect utility service effective today 09-30-19
=====			



TOWN OF BOWLING GREEN TOWN COUNCIL MEETING MONTHLY REPORT / PROJECT UPDATE

AGENDA ITEM: Events & Economic Development Coordinator Council Monthly Report for

October 2019

DATE: November 1, 2019

PREPARED BY: Jo-Elsa Jordan

MONTHLY REPORT / PROJECT UPDATE:

• Harvest Festival

Facebook promotion

Review/Approve vendor applications

Update Vendor Spreadsheet

Coordinate with Town Clerk to process vendor payment

Finalize event layout

Finalize vendor assignments

Print/mail vendor assignments, event information and meals tax forms

Number brick pavers with vendor assignments

Coordinate with the VDH for compliance with all participating food vendors

Volunteer recruitment (Vendor check-in, Beer Garden, floaters)

Finalize volunteer assignments

Pre-event meeting with Caroline County first responders, CCSO, volunteers and

Public Works

Coordinate for use of a power source from Caroline Square property owner for Car

Show

Coordinate with Bowling Green Suites property owner for placement of entertainment stage and Beer Garden.

Secure sponsorship banner for entertainment stage

Coordinate trophy pick-up from MVP Awards

Creating/printing profile cards for Car Show and Motorcycle Show.

Coordinate with Town Treasure for cash banks as needed for the Beer Garden, Car

Show and Bike Show

Coordinate with port-o-pottie vendor on delivery and placement

Coordinate with volunteer for set up of McKesson pumpkin decorating station

Directional signage pick-up and placement

Coordinate with Public Works for securing Car Show area, Beer Garden area, street

closures and "No Parking" signage

Coordinate with VDOT for electronic message boards as needed to detour traffic

Coordinate with Town Treasurer/Clerk for check requests needed on event day

Provide entertainers with information on access, loading, unloading, set times, etc.

Accept stage delivery/placement

Coordinate installation of sponsorship banners on entertainment stage

Measuring/marking Main Street

Locating food vendors night before event

Provide notes for event Emcee

Vendor check-in

Accept beer delivery

Meet each vendor and gauge vendor satisfaction

Coordinate with BGPD vendor exit/opening streets

Misc. troubleshooting

Event clean up (collection of directional signage, etc.)

Create and submit invoice to Caroline County for funding support

Development of After-Action Report for Town Council's review at December meeting

• Economic Development Authority

Accept invoicing from legal counsel and prepare for EDA review.

Accept Façade Improvement Grant application to include in meeting packet Prepare EDA meeting agenda and packet for 10/28/19 meeting; Send to board members via email and publish online.

Attend EDA meeting on 10/28/19; Record minutes

Prepare response to Façade Improvement Grant applicant.

Coordinate site visit for prospect developers on the Rt. 301 Commercial Corridor Coordinate with legal counsel for preparation of documentation for prospect developers

Coordinate with Atlantic Union Bank Real Estate Department on deed transfer for donation of 109 Courthouse Lane.

Coordinate conference call with Atlantic Union Bank Marketing and Public Relations Department to discuss press release and donation plaque.

Bowling Green Christmas Parade of Lights

Update registration form with NEW DATE: Saturday, December 14, 2019 Secure Santa Claus

Prepare/submit VDOT permit application for street closures

Coordinate with Town Clerk for issuance of VDOT permit fee

Secure quote from Deadhand Design Graphic Arts for marketing graphic

Release Deadhand Design on graphic design and printing

Community Relations

Coordinate with Bowling Green Health & Rehabilitation Center for acoustic set by Elvis Presley impersonator prior to performance at Harvest Festival. Create Instagram account for the Town of Bowling Green

Submit reference letter to Fredericksburg Regional Chamber of Commerce for Top10 Next Gen nominee.

Community Heart & Soul; facilitate signatures for Coach Agreement and Grant Agreement

Community Heart & Soul; send demographics for Town of Bowling Green

ATTACHMENTS:

HEADS UP ITEMS:

- 2019 Harvest Festival After Action Report to be presented at December Town Council Meeting
- NEW DATE FOR CHRISTMAS PARADE! Saturday, December 14, 2019



TOWN OF BOWLING GREEN TOWN COUNCIL MEETING MONTHLY REPORT / PROJECT UPDATE

AGENDA ITEM: Town Clerk/Treasurer's Monthly Report to Council October 2019

DATE: October 31, 2019

PREPARED BY: Melissa Lewis

MONTHLY REPORT / PROJECT UPDATE:

Utility Billing:

Prepared handheld meter reader for bi-monthly water meter reading.

Payroll/Human Resources:

- Prepared 2 bi-monthly payrolls, reconciled, and submitted payment to VRS and ICMA-RC for VRS Hybrid Retirement Employees following each payroll.
- Filed quarterly Payroll Tax reports.

Treasurer/Financial:

· Preparing for Audit

Town Clerk:

- Prepared and mailed letters per Invocation Policy
- Completed CEU's for to maintain Zoning Official Certification, working towards Zoning Administrator Certification

Meetings/Training attended:

- Small Group Workshop: Financial Planning for Small Water Systems
- September Town Council Meeting
- 4 weekly staff meetings
- USDA Sewer meeting

Attachments:

- October Town Hall Rental Report
- Revenue and Expense Summary

Heads Up:

SUP for Magnolia Morning Suites is up for review – December Meeting

TOWN HALL RENTALS

October 2019

<u>#USES</u>	NAME OF USER	<u>ACTIVITY</u>	<u>FEES</u>
21	Activities Program	Yoga/Pitaiyo	420.00
1	EDA	Meeting	N/C
1	Chamber of Commerce	Meeting	N/C
1	Planning Commission	Meeting	N/C
1	Town Council	Meeting	N/C
1	Private Party	Party	675.00
1	BGVFD	Dinner	250.00
1	Private Party	Wedding	575.00
1	Private Party	Wedding	575.00

29 Totals \$2495.00

11/04/2019 *GL060AA* TOWN OF BOWLING GREEN PAGE 1 REVENUE SUMMARY TIME 11:44

7/01/2019 - 10/31/2019

ACCT#	DESCRIPTION	BUDGET AMOUNT	APPR. AMOUNT	CURRENT AMOUNT	Y-T-D AMOUNT		% LECTED
UND #-100	***GENERAL FUND REVENUE***						
11010	***REAL ESTATE**	141,500.00	141,500.00	21,364.93	23,004.26	118,495.74	83.74
11020	***PUBLIC SERVICE***	4,500.00	4,500.00	.00	.00	4,500.00 10	00.00
11030	***PERSONAL PROPERTY***	55,500.00	55,500.00	10,111.11	10,526.57	44,973.43	81.03
11060	***PENALTY & INTEREST***	14,000.00	14,000.00	535.97	2,170.23	11,829.77	84.49
15010	INTEREST EARNED	1,000.00	1,000.00	919.86	919.86	80.14	8.01
16099	***REFUSE COLLECTION FEES***	86,700.00	86,700.00	328.46	15,141.25	71,558.75	82.53
120101	SALES TAX	32,000.00	32,000.00	5,089.50	14,420.26	17,579.74	54.93
120201	CONSUMER UTILITY TAX	30,000.00	30,000.00	5,535.43	10,778.33	19,221.67	64.07
120301	BUSINESS LICENSE	85,000.00	85,000.00	1,263.23	1,991.31	83,008.69	97.65
120501	VEHICLE LICENSE FEES	27,650.00	27,650.00	3,859.64	4,708.07	22,941.93	82.97
120601	BANK STOCK TAX	150,000.00	150,000.00	.00	.00	150,000.00 10	00.00
121001	TRANSIENT OCCUPANCY TAX	4,500.00	4,500.00	839.52	1,547.12	2,952.88	65.61
121101	MEALS TAX	230,000.00	230,000.00	41,795.72	85,047.89	144,952.11	63.02
130306	***PERMITS, FEES AND LICENSES***	3,000.00	3,000.00	475.00	545.00	2,455.00	81.83
140101	***FINES AND FORFEITURES***	43,100.00	43,100.00	7,231.78	13,541.28	29,558.72	68.58
140120	***DONATIONS***	.00	.00	.00	500.00	500.00- 10	00.00-
150201	***RENTALS***	26,000.00	26,000.00	8,223.48	10,998.48	15,001.52	57.69
189000	** OTHER LOCAL REVENUE **	2,100.00	2,100.00	.00	50.00	2,050.00	97.61
220108	ROLLING STOCK TAX	.00	.00	.00	43.30	43.30- 10	00.00-
220109	VA 599 POLICE FUNDING	23,000.00	23,000.00	6,369.00	6,369.00	16,631.00	72.30
220110	PPTRA REIMBURSEMENT-STATE	22,000.00	22,000.00	.00	21,907.50	92.50	.42
220111	COMMUNICATIONS TAX	40,000.00	40,000.00	5,771.28	11,292.26		71.76
240407	***GRANTS***	1,034.00	1,034.00	.00	.00		00.00
240412	VIRGINIA FIRE PROGRAMS	10,000.00	10,000.00	.00	.00		00.00
410501	**SAVINGS TRANSFER**	78,544.00	78,544.00	1,991.29	3,892.53		95.04
999999	MISCELLANEOUS	.00	.00	3,096.24	4,428.43	4,428.43- 10	
	FUND TOTAL	1,111,128.00	1,111,128.00	124,801.44	243,822.93	867,305.07	78.05
FUND #-300	** CIP FUND REVENUE **						
15000	** REVENUE FR USE OF MONEY/PROP **	.00	.00	808,173.88	1,337,449.15	1,337,449.15- 10	00.00-
	FUND TOTAL	.00	.00	808,173.88	1,337,449.15	1,337,449.15- 10	00.00-
FUND #-400	***EVENTS AND ACTIVITIES***						
19050	HARVEST FESTIVAL	39,000.00	39,000.00	17,462.31	21,727.31	17,272.69	44.28
410501	GF TRANSFER IN	5,500.00	5,500.00	.00	.00	5,500.00 10	00.00
	FUND TOTAL	44,500.00	44,500.00	17,462.31	21,727.31	22,772.69	51.17
FUND #-420	***DEBT SERVICE***						
410501	USE OF FUND BALANCE	216,000.00	216,000.00	.00	.00	216,000.00 10	00.00
	FUND TOTAL	216,000.00	216,000.00	.00	.00	216,000.00 10	00 00

11/04/2019	*GL060AA*	TOWN OF BOW REVENUE	LING GREEN SUMMARY			TIME	PAGE 11:44	2
		7/01/2019 -	10/31/2019					
		BUDGET	APPR.	CURRENT	Y-T-D			%
ACCT#	DESCRIPTION	AMOUNT	AMOUNT	AMOUNT	AMOUNT		BALANCE UNCO	OLLECTED
FUND #-500 *	**WATER REVENUE***							
16099 *	**WATER REVENUE***	413,662.00	413,662.00	10,737.87	66,743.41		346,918.59	83.86
	FUND TOTAL	413,662.00	413,662.00	10,737.87	66,743.41		346,918.59	83.86
FUND #-520 *	* SEWER OPERATIONS **							
16099 S	SEWER SALES	422,250.00	422,250.00	26,453.82	96,737.86		325,512.14	77.08
	FUND TOTAL	422,250.00	422,250.00	26,453.82	96,737.86		325,512.14	77.08

987,629.32 1,766,480.66

441,059.34 19.97

2,207,540.00 2,207,540.00

--FINAL TOTAL--

11/04/2019	*GL060AA*	TOWN OF BOWLING GREEN			PAGE	3	
		EXPENDITURE SUMMARY	TIME	11:44			

7/01/2019 - 10/31/2019

ACCT#	DESCRIPTION	BUDGET AMOUNT	APPR. AMOUNT	CURRENT AMOUNT	Y-T-D AMOUNT	ENCUMBRANCE AMOUNT		% EMAINING
 FUND #-100	***GENERAL FUND EXPENDITURES***							
12110	**COUNCIL AND ADMINSTRATOR EXPENSES		275,169.00	35,619.20	85,962.51	.00	189,206.49	68.76
12410	***TREASURER'S EXPENSES***	211,874.00	211,874.00	52,670.41	88,770.26	.00	123,103.74	58.10
31100	***POLICE DEPT. EXPENSES***	131,581.00	131,581.00	21,577.75	46,669.29	.00	84,911.71	64.53
31200	***POLICE DEPT RESTRICTED FUNDS***	3,000.00	3,000.00	.00	.00	.00	3,000.00	100.00
32000	***DONATIONS***	13,000.00	13,000.00	.00	.00	.00	13,000.00	100.00
43100	***PUBLIC WORKS***	289,055.00	289,055.00	47,744.77	98,281.68	.00	190,773.32	65.99
410501	***TRANSFERS OUT***	187,500.00	187,500.00	.00	.00	.00	187,500.00	100.00
	FUND TOTAL	1,111,179.00	1,111,179.00	157,612.13	319,683.74	.00	791,495.26	71.23
FUND #-300	***CIP EXPENDITURES***							
300100	***CAPITAL PROJECTS FUND(GF)***	.00	.00	818,321.86	1,083,710.39	.00	1,083,710.39-	100.00
	FUND TOTAL	.00	.00	818,321.86	1,083,710.39	.00	1,083,710.39-	100.00
FUND #-400	***EVENTS AND ACTIVITIES***							
71200	EVENTS COORDINATOR	44,450.00	44,450.00	20,410.20	25,261.55	.00	19,188.45	43.16
	FUND TOTAL	44,450.00	44,450.00	20,410.20	25,261.55	.00	19,188.45	43.16
FUND #-420	***DEBT SERVICE***							
500400	***DEBT SERVICE***	216,000.00	216,000.00	35,876.00	71,752.00	.00	144,248.00	66.78
	FUND TOTAL	216,000.00	216,000.00	35,876.00	71,752.00	.00	144,248.00	66.78
FUND #-500	***WATER EXPENDITURES***							
500100	***WATER OPERATIONS***	397,388.00	397,388.00	34,353.02	98,339.66	.00	299,048.34	75.25
	FUND TOTAL	397,388.00	397,388.00	34,353.02	98,339.66	.00	299,048.34	75.25
FUND #-520	***SEWER OPERATIONS***							
500100	***SEWER OPERATIONS***	422,250.00	422,250.00	77,559.42	140,095.19	.00	282,154.81	66.82
	FUND TOTAL	422,250.00	422,250.00	77,559.42	140,095.19	.00	282,154.81	66.82
	FINAL TOTAL	2,191,267.00	2,191,267.00	1,144,132.63	1,738,842.53	.00	452,424.47	20.64

		EXPENDITUR 7/01/2019 -	E SUMMARY 10/31/2019			TIME	11:44	
"		BUDGET	APPR.	CURRENT	Y-T-D	ENCUMBRANCE	UNENCUMBERED	
ACCT#	DESCRIPTION	AMOUNT	AMOUNT	AMOUNT	AMOUNT	AMOUNT	BALANCE	REMAINING
	FINAL TOTAL	.00	.00	.00	.00	.00		.00

PAGE 4

TOWN OF BOWLING GREEN

11/04/2019

GL060AA





CERTIFICATE OF ATTENDANCE

Melissa Lewis

completed 6 hours of training for

Small Group Workshop: Financial Planning for Small Water Systems

Hosted by the Environmental Finance Center Network
Paul D. Camp Community College Workforce Development Center, Franklin, VA
October 24, 2019

Stephen Lapp, UNC Environmental Finance Center	10/24/2019	stephen Japp
EFCN Training Sponsor	Date	Signature



TOWN OF BOWLING GREEN TOWN COUNCIL MEETING AGENDA ITEM REPORT

AGENDA ITEM: October 2019 Bills

ITEM TYPE: Consent Agenda

PURPOSE OF ITEM: Decision - By Motion

PRESENTER: Melissa Lewis, towntreasurer@townofbowlinggreen.com

PHONE: (804) 633-6212

BACKGROUND / SUMMARY:

Invoices for items purchased and services rendered in October 2019

ATTACHMENTS:

Check Reports:

- 10/02/19
- 10/11/19
- 10/17/19
- 10/18/19
- 10/21/19
- 10/25/19
- 10/31/19

REQUESTED ACTION:

Approve invoices.

		24769 24770 24771 24771 24772 24773 24773 24774 24775 247776 247776 2999999	CHECK# VEND#	AP100B 10/02/2019 TOWN OF BOWLING TIME-10:35:49
CHECK	ACH TOTAL	CONSOLIDATED PIPE & SUPJOHNSON'S EXTERMINATING LEWIS MELISSA LINDSEY SHIRLEY REID ENGINEERING CO INC STAPLES ADVANTAGE VERIZON WIRELESS WHITTAKER DENNIS CLASS	VENDOR	TOWN OF BOWLING GREEN
CHECK TOTAL	OTAL	TO 000000000000000000000000000000000000	CLASS	A/
		10/02/2019 10/02/2019 10/02/2019 10/02/2019 10/02/2019 10/02/2019 10/02/2019 10/02/2019 10/02/2019	DATE	A/P CHECK REGISTER Check Date - 10/02/2019
13.016.81	.00	186.80 1,259.00 116.00 150.00 10,147.98 383.82 174.22 448.99 150.00	AMOUNT	ER 0/02/2019
			DISCOUNT	
				ActPd - 2019/10

I HEREBY APPROVE THIS REGISTER FOR PAYMENT WITH EXCEPTIONS LISTED BELOW OR PREVIOUSLY DOCUMENTED. 13,016.81- EQUALS THE WEEKLY LOG SHEET TOTALS AS ADJUSTED.

EPY TOTAL FINAL TOTAL

13,016.81

.00

.00

DATE

TOWN MANAGER

28

AP100 10/02/2019 TOWN OF BOWLING GREEN

A/P CHECK REGISTER

TIME-10:35:49 ActPd - 2019/10

		0000000 999999 WHITTAKER DENNIS DISC. TOTAL .00	000000 000256 VERIZON 0000000 000256 0000000 000256 0000000 000256 0000000 000256 0000000 000256 0000000 000256	0000000 000019 VERIZON 0000000 000019 DISC. TOTAL	0000000 000918 STAPLES 0000000 000918 0000000 000918 0000000 000918 0000000 000918 0000000 000918 0000000 000918 0000000 000918 0000000 000918	0000000 000880 REID ENG DISC. TOTAL	0000000 999999 LINDSEY SHIRLEY DISC. TOTAL .00	0000000 999999 LEWIS MELISSA DISC. TOTAL .0	0000000 000546 JOHNSON'S 0000000 000546 0000000 000546 0000000 000546 0000000 000546 0000000 000546 0000000 000546	0000000 001020 CONSOLIDATED FIFE DISC. TOTAL .00	P.O. VENDOR VE
.00	.00	BR DENNIS	VERIZON WIRELESS	. 00	STAPLES ADVANTAGE	ENGINEERING .	SHIRLEY	ELISSA .00	'S EXTERMINATING .00 CHECK	DATED PIPE	VENDOR NAME
CHECK TOTAL	CHECK TOTAL	CHECK TO	СНВСК ТО	201 201 CHECK TOTAL	CHECK TO	CO INC 071	THD CHECK TOTAL	201 CHECK TOTAL	TO	& SUP	
		THDR 2019-09-28 TOTAL 150	9838450551 9838450551 9838450551 9838450551 9838450551 9838450551 70TAL	2019-10 2019-10 TAL	7300450730001 7300450730001 730045073001 730045073011 730045073011 730053210801 730053210801 730053210801 730053210801 730053210801	93631	THDR 2019-09-14	20191002 TAL	10022019 2019-09 2019-09 2019-09 2019-09 2019-09 2019-09 2019-09	6291132000000 TOTAL	INVOICE NO.
13,016.81	13,016.81	0.0	10, 10, 10, 10, 10, 10,	10, 10, 174.22	ω ω ω	10, 10,147.98		10, 116.00	10 10 10 10 10 10 10 10 10	186.8	г. Н
ACH PM	ACH PM	10/02/2019 00 ACH PMT	10/02/2019 10/02/2019 10/02/2019 10/02/2019 10/02/2019 10/02/2019 10/02/2019 10/02/2019	10/02/2019 10/02/2019 2 ACH PM	10/02/2019 10/02/2019 10/02/2019 10/02/2019 10/02/2019 10/02/2019 10/02/2019 10/02/2019 10/02/2019 10/02/2019	10/02/2019 8 ACH PM	10/02/2019 0 ACH PMT	10/02/2019 0 ACH PMT	10/02/2019 10/02/2019 10/02/2019 10/02/2019 10/02/2019 10/02/2019 10/02/2019 0 ACH PMT	10/02/2019 0 ACH PM	DATE
PMT TOTAL	PMT TOTAL	TOTAL	TOTAL	2019 4 2019 4 ACH PMT TOTAL	TOTAL	2019 4 ACH PMT TOTAL	T TOTAL	TOTAL	TOTAL	2019 4 ACH PMT TOTAL	A/P ACCRL
		100-000200-3500-	4100-031100-5230- 4100-043100-5230- 4100-012110-5250- 4100-012410-5230- 4100-012410-5230- 4520-500100-5230- .00 C	4500-500100-5230- 4500-500100-5230-	4100-043100-6001- 4500-500100-6001- 4520-500100-6001- 4520-500100-6001- 4500-500100-6001- 4100-043100-6005- 4500-500100-6005- 4500-500100-6005- 4500-500100-6005-	4300-300100-8700-	100-000200-3500-	4100-012410-5540-	4100-043100-7200- 4100-031100-3320- 4100-043100-7120- 4100-043100-7200- 4100-043100-7200- 4100-043100-7200- 4100-043100-7300- 4520-500100-3320- .00 C	4500-500100-6050-	AC
.00 CPA PMT TOTAL	.00 СРА РМТ	3500- .00 CPA PMT	5230- 5250- 5250- 5230- 5230- 5230- 5230-	5230- 5230- .00 CPA PMT TOTAL	PA	8700- .00 CPA PMT TOTAL	3500- .00 CPA PMT	5540- .00 CPA PMT	7200- 3320- 7120- 7200- 7200- 73320- .00 CPA PMT TOTAL	6050- .00 CPA PMT TOTAL	ACCOUNT NO.
TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	PMT TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	
.00 EPY PMT TOTAL	.00 EPY PMT TOTAL	150.00 24777 .00 BPY PMT TOTAL	62.64 24776 106.21 24776 47.64 24776 20.08 24776 106.21 24776 106.21 24776 .00 BPY PMT TOTAL	16.26 24775 157.96 24775 .00 EPY PMT TOTAL	60.11 24774 60.12 24774 60.11 24774 73.79 24774 73.79 24774 37.84 24774 37.84 24774 37.88 24774 89.97 24774	10,147.98 24773 .00 BPY PMT TOTAL	150.00 24772 .00 EPY PMT TOTAL	116.00 24771 .00 EPY PMT TOTAL	275.00 24770 50.00 24770 75.00 24770 65.00 24770 80.00 24770 289.00 24770 425.00 24770 .00 RPY PMT TOTAL	186.80 24769 .00 EPY PMT TOTAL	NET CHECK ACH ACH AMOUNT NO. PMT PMT
.00 TO	.00 TO	REFUNDS PAYABLE TO:	TELECOMMUNICATIONS TELECOMMUNICATIONS TELECOMMUNICATIONS TELECOMMUNICATIONS TELECOMMUNICATIONS TELECOMMUNICATIONS TELECOMMUNICATIONS TODO	TELECOMMUNICATIONS TELECOMMUNICATIONS .00 TO	OFFICE SUPPLIES & PRINTING OFFICE SUPPLIES/BQUIPMENT OFFICE SUPPLIES/ OFFICE SUPPLIES/BQUIPMENT OFFICE SUPPLIES/BQUIPMENT OFFICE SUPPLIES/BQUIPMENT JANITORIAL SUPPLIES OFFICE/MBETING SUPPLIES & OFFICE/MBETING SUPPLIES &	REFINANCING AND USDA PROJECTS00768	REFUNDS PAYABLE .00 TO	EDUCATION/TRAINING .00 TO	TOWN HALL EXPENSES PROFESSIONAL SERVICES PARK MAINTENANCE TOWN HALL EXPENSES	METER/FIRE HYDRANTS	CH MT G/L ACCOUNT DESC.
TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	PRINTING PUIPMENT PUIPMENT S S S S PLIES & PRI TOTAL	DA PROJECTS TOTAL	TOTAL	TOTAL	CES CES	TOTAL	
13,016.81	13,016.81	00768 THDR 2019-09-28 150.00	00768 PC 00768 PW 00768 TM 00768 TC 00768 WATER 00768 SEWER 448.99	00768 **** 00768 **** 174.22	OFFICE SUPPLIES & PRINTING 00768 PAPER, INK, SORTER OFFICE SUPPLIES 00768 PAPER, INK, SORTER 00768 SAPER, INK, SORTER OFFICE SUPPLIES/EQUIPMENT 00768 INK OFFICE SUPPLIES/EQUIPMENT 00768 INK JANITORIAL SUPPLIES 00768 PT, TP, CLOROX, SO OFFICE/MEETING SUPPLIES 4 PRIO0768 3 HOLE PAPER, CLEAN OFFICE/MEETING SUPPLIES 4 PRIO0768 3 HOLE PAPER, CLEAN 383.82	300768 10,147.98	00768 THDR 2019-09-14 150.00	00768 MILEAGE TO VA20 CO 116.00	00768 SET UP BREAK DOWN 00768 PC 00768 PLAYGROUND 00768 TH 00768 COURTHOUSE LAWN 00768 MONTHLY CLEANING 00768 PW 1,259.00	00768 RISERS 186.80	BATCH INV.DESCRIPTION

I HERBBY APPROVE THIS REGISTER FOR PAYMENT WITH EXCEPTIONS LISTED BELOW OR PREVIOUSLY DOCUMENTED. THE TOTAL 13,016.81- EQUALS THE WEEKLY LOG SHEET TOTALS AS ADJUSTED.

				24778	CHECK#	AP100B 10/ TIME-13:53:
FINAL	EPY TOTAL	CHECK	ACH TOTAL	1040 KELVIC CONSTRUCTION CO	VEND# VENDOR	AP100B 10/02/2019 TOWN OF BOWLING GREEN TIME-13:53:26
FINAL TOTAL	OTAL	CHECK TOTAL	OTAL	CLASS TOTAL	CLASS	A/
				10/02/2019	DATE	A/P CHECK REGISTER Check Date - 10/02/2019
467,849.72	.00	467,849.72	.00	467,849.72 467,849.72	AMOUNT	TER 10/02/2019
.00					DISCOUNT	
						ActPd - 2019/10

I HEREBY APPROVE THIS REGISTER FOR PAYMENT WITH EXCEPTIONS LISTED BELOW OR PREVIOUSLY DOCUMENTED. THE TOTAL 467,849.72- EQUALS THE WEEKLY LOG SHEET TOTALS AS ADJUSTED.

DATE

TOWN MANAGER

		00000	P.O.	AP100
		0000000 001040 KELVIC CONSTRUCTION CO 12 DISC. TOTAL .00 CHECK TOTAL	VENDOR NO.	0 10/02/2019
.00	. 00	VIC CONSTRUCTI	VENDOR NAME	TOWN OF BOWLING GREEN
CHECK TOTAL	CHECK TOTAL	TRUCTION CO 12	INVOICE NO.	LING GREEN
467,849.72	467,849.72	10 467,849.72		A/P
ACH	ACH	10/02/2019 2 ACH	INVOICE	A/P CHECK REGISTER
ACH PMT TOTAL	ACH PMT TOTAL	02/2019 ACH PMT TOTAL	A/P ACCRL	BGISTER
.00 CPA PMT TOTAL	.00 CPA PMT TOTAL	4300-300100-8700- .00 CPA PMT TOTAL	ACCOUNT NO.	TIME-13:53:26 ActPd - 2019/10
.00 BPY PMT TOTAL	.00 BPY PMT TOTAL	467,849.72 24778 .00 EPY PMT TOTAL	NET CHECK ACH ACH	9/10
.00	. 00	REFINANCING AND USDA PROJECTS00769	CHECK ACH ACH NO. PMT PMT G/L ACCOUNT DESC.	
TOTAL	TOTAL	USDA PROJ TOTAL		
467,849.72	467,849.72	BCTS00769 467,849.72	BATCH INV.DESCRI	

I HEREBY APPROVE THIS REGISTER FOR PAYMENT WITH EXCEPTIONS LISTED BELOW OR PREVIOUSLY DOCUMENTED. TOTAL 467,849.72- EQUALS THE WEEKLY LOG SHEET TOTALS AS ADJUSTED.

TOWN MANAGER

DATE

31

2247782 2247782 2247782 22477883 224477885 224477886 22447799 2447799 954	CHECK#
534 534 897 99991 99991 6881 2949 2949 4124 512	VEND#
ATLANTIC BROADBAND / CAS SEVERN CINTAS CORPORATION DOMINION VIRGINIA POWER FOLEY HEATHER GAINES TAMMIE HARDWOOD MULCH CORP SIGMA CONSULTING AND SOSMETAL PRODUCTS INC ULINE USA BLUE BOOK UUPS WASTE MANAGEMENT XEROX CORPORATION CLASS	VENDOR
R 0000 0000 0000 0000 0000 0000 0000 00	CLASS
1100/11/11/11/11/11/11/11/11/11/11/11/11	DATE
194.40 114.23 5,807.75 2,250.00 1,608.00 450.00 316.47 419.16 8,209.85 8,209.85 8,209.85 1263.31	AMOUNT
	DISCOUNT

AP100B 10/11/2019 TOWN OF BOWLING GREEN TIME- 9:39:06

	451	12	44	291	949	659	881	947	999999	813	10	897	536	944
CLASS	CORPORATION	WASTE MANAGEMENT	VUPS	USA BLUE BOOK	ULINE	SOSMETAL PRODUCTS INC	SIGMA CONSULTING AND	OOD MUL	GAINES TAMMIE	FOLEY HEATHER	DOMINION VIRGINIA POWER	CINTAS CORPORATION	CAS SEVERN	ATLANTIC BROADBAND /
TOTAL	000	000	000	000	000	000	000	000	000	000	000	000	000	000
	0/11/201	0/11/201	0/11/201	10/11/2019	0/11/201	0/11/201	0/11/201	0/11/201	/11/201	10/11/2019	10/11/2019	/11/201		10/11/2019
20,255.17	263.31	09.4	38.85	419.16	226.47	310.82	450.00	1,608.00	279.74	, 250	. 7	84.23		194.40

EPY TOTAL ACH TOTAL FINAL TOTAL CHECK TOTAL 20,255.17 20,255.17 .00 .00

I HEREBY APPROVE THIS REGISTER FOR PAYMENT WITH EXCEPTIONS LISTED BELOW THE TOTAL 20,255.17- EQUALS THE WEEKLY LOG SHEET TOTALS AS ADJUSTED. OR PREVIOUSLY DOCUMENTED.

TOWN MANAGER

DATE

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00770 WWTP	PROFESSIONAL SERVICES	87.10 24794	4520-500100-3320-	10/11/2019	r 269805602811	0000000 000012 WASTE MANAGEMENT	0000000 00001
00770 TRANSMISSIONS 38.85	MISS UTILITY COSTS	38.85 24793 .00 EPY PMT TOTAL	.00 CPA PMT TOTAL	10/11/2019 38.85 ACH PMT TOTAL	09190454 CHBCK TOTAL	A VUPS .00	0000000 000044 VUPS DISC. TOTAL
00770 PRIMARY CHLORINE 00770 DEDIA / DEDIB 00770 SETTLING AGENT 419.16	TESTING SUPPLIES/CHEMICALS TESTING SUPPLIES/CHEMICALS LAB SUPPLIES/CHEMICALS .00 TOTAL	49.95 24792 95.36 24792 273.85 24792 .00 BPY PMT TOTAL	4500-500100-6021- 4500-500100-6021- 4520-500100-6004- .00 CPA PMT TOTAL	10/11/2019 10/11/2019 10/11/2019 10/11/2019 419.16 ACH PMT TOTAL	021659 021659 021659 CHBCK TOTAL	OI USA BLUE BOOK	0000000 000291 0000000 000291 0000000 000291 DISC. TOTAL
00770 TRASH BAGS 226.47	JANITORIAL SUPPLIES .00 TOTAL	226.47 24791 .00 BPY PMT TOTAL	4100-043100-6005- .00 CPA PMT TOTAL	10/11/2019 226.47 ACH PMT TOTAL	112518090 CHECK TOTAL	PAL .00	0000000 000949 ULINE DISC. TOTAL
00770 HD CHAIN LUBE 310.82	REPAIR/ MAINTENANCE .00 TOTAL	310.82 24790 .00 BPY PMT TOTAL	4520-500100-6007- .00 CPA PMT TOTAL	10/11/2019 310.82 ACH PMT TOTAL	TS INC 1387866 CHBCK TOTAL	0000000 000659 SOSMETAL PRODUCTS DISC. TOTAL .00	0000000 000659 DISC. TOTAL
00770 OSHA 3 PEOPLE 450.00	EDUCATION/TRAINING/LICENSES	450.00 24789 .00 BPY PMT TOTAL	4500-500100-5540- .00 CPA PMT TOTAL	10/11/2019 450.00 ACH PMT TOTAL	G AND 84838 CHBCK TOTAL	0000000 000881 SIGMA CONSULTING AND DISC. TOTAL .00 CH	0000000 000881 DISC. TOTAL
00770 PLAYGROUND MULCH 1,608.00	PARK MAINTENANCE .00 TOTAL	1,608.00 24788 .00 BPY PMT TOTAL	4100-043100-7120- .00 CPA PMT TOTAL	10/11/2019 1,608.00 ACH PMT TOTAL	CORP 121112 CHBCK TOTAL	0000000 000947 HARDWOOD MULCH CORP DISC. TOTAL .00 CT	0000000 000947 DISC. TOTAL
E00770 VML CONFERENCE 279.74	CONFRENCE EXPENSES/TRAINING E00770 VML CONFERENCE .00 TOTAL 279.74	279.74 24787 .00 EPY PMT TOTAL	4100-012110-5545- .00 CPA PMT TOTAL	10/11/2019 279.74 ACH PMT TOTAL	20191011 CHECK TOTAL	0000000 999999 GAINES TAMMIE DISC. TOTAL .00	0000000 999999 DISC. TOTAL
00770 FY18 2,250.00	PROFESSIONAL SERVICES - CPA .00 TOTAL	2,250.00 24786 .00 EPY PMT TOTAL	4100-012410-3150- .00 CPA PMT TOTAL	10/11/2019 2,250.00 ACH PMT TOTAL	2019-09 CHECK TOTAL	0000000 000813 FOLEY HEATHER DISC. TOTAL .00	0000000 000813 DISC. TOTAL
00770 WWTP 194.40 00770 DAILY BACK UP ISSU 113.00 00770 FIRST AID 84.23 00770 PC 00770 PC 00770 BUT/CHASE ST LIGHTS 00770 BUT/CHASE ST LITES 00770 BUT/CHASE WIR TWR 00770 BUT/CHASE WIR TWR 00770 BUT/CHASE WIR TWR 00770 WWTP 00770 WGLL #5 00770 ROGER CRK PMP STAT 00770 CHOOL RD PMP STAT	TELECOMMUNICATIONS .00 TOTAL OFFICE EQUIPMENT .00 TOTAL UNIFORMS/ SAFETY EQUIPMENT .00 TOTAL TOWN HALL EXPENSES ELECTRICITY ELECTRICITY-STREETLIGHTS ELECTRICITY-STREETLIGHTS ELECTRICITY	74.20 24782 .00 EPY PWT TOTAL 113.00 24783 .00 EPY PWT TOTAL 84.23 24784 .00 EPY PWT TOTAL 442.36 24785 64.84 24785 1,670.58 24785 1,570.58 24785 1,570.58 24785 1,135.06 24785 1,135.06 24785 2,123.73 24785 1,14.93 24785 1,14.93 24785 1,14.93 24785 1,14.93 24785 1,14.93 24785 1,14.93 24785 1,14.93 24785 1,14.93 24785 1,14.93 24785 1,14.93 24785 1,14.93 24785	4520-500100-5230- LL .00 CPA PMT TOTAL 4100-012410-331000 CPA PMT TOTAL 4520-500100-601100 CPA PMT TOTAL 4520-500100-5110- 4100-043100-5110- 4100-043100-5110- 4100-043100-5110- 4500-500100-5110- 4500-500100-5110- 4500-500100-5110- 4500-500100-5110- 4500-500100-5110- 4500-500100-5110- 4520-500100-5110- 4520-500100-5110- 4520-500100-5110- 4520-500100-5110-	10/11/2019 194.40 ACH PWT TOTAL 10/11/2019 113.00 ACH PWT TOTAL 97 10/11/2019 10/11/2019 10/11/2019 10/11/2019 10/11/2019 10/11/2019 10/11/2019 10/11/2019 10/11/2019 10/11/2019 10/11/2019 10/11/2019 10/11/2019 10/11/2019 10/11/2019 10/11/2019 10/11/2019 10/11/2019 10/11/2019	CHECK TOTAL 435023 CHECK TOTAL TON 80404323197 CHECK TOTAL IA POWER 2019-09 2019-09 2019-09 2019-09 2019-09 2019-09 2019-09 2019-09 2019-09 2019-09 2019-09 2019-09 2019-09 2019-09	DISC. TOTAL .00 CHECK 0000000 000536 CAS SEVERN .00 CHECK 0000000 000897 CINTAS CORPORATION DISC. TOTAL .00 CHECK 0000000 000010 DOMINION VIRGINIA POWER 0000000 000010 0000000 000010 0000000 000010 0000000 000010 0000000 000010 0000000 000010 0000000 000010 0000000 000010 0000000 000010 0000000 000010 0000000 000010 0000000 000010 0000000 000010 0000000 000010	DISC. TOTAL 0000000 000010 DISC. TOTAL 0000000 000010 0000000 000010 0000000 000010 0000000 000010 0000000 000010 0000000 000010 0000000 000010 0000000 000010 0000000 000010 0000000 000010 0000000 000010 0000000 000010 0000000 000010 0000000 000010 0000000 000010 0000000 000010 0000000 000010
BATCH INV.DESCRIPTION	ACH ACH PMT PMT G/L ACCOUNT DESC. TELECOMMUNICATIONS	NET CHECK ACH ACH ACH AMOUNT NO. PMT PMT	ACCOUNT NO. 4100-012410-5230-	INVOICE A/P DATE ACCRL 10/11/2019	INVOICE NO	P.O. VENDOR VENDOR NAME NO. NO. VENDOR NAME 0000000 000944 ATLANTIC BROADBAND	P.O. VENDOR NO. NO

AP100 10/11/2019 TOWN OF BOWLING GREEN

A/P CHECK REGISTER

TIME- 9:39:06 ActPd - 2019/10

	0000000 000451 DISC. TOTAL	0000000 000012 0000000 000012 0000000 000012 DISC. TOTAL	P.O. VENDOR NO. NO.	AP100 10/11/2019
00	0000000 000451 XEROX CORPORATION DISC. TOTAL .00	. 00	VENDOR NAME	2019 TOWN OF BOWLING GREEN
CHECK TOTAL	CHECK TOTAL	269832402813 269888102812 338799024249 CHECK TOTAL	INVOICE NO.	WLING GREEN
20,255.17	10/11/2019 263.31 ACH	813 10/11/2019 812 10/11/2019 849 10/11/2019 8,209.44 ACH PMT TOTAL	INVOICE	A/P CHE
ACH PMT TOTAL	PMT TOTAL		CCB A/P B ACCRL	A/P CHECK REGISTER
.00 CPA	4100-012410-3310- .00 CPA	4100-043100-7130- 4520-500100-3180- 4100-043100-7130- .00 CPA	ACCOUNT NO.	TIME- 9:39:06
.00 CPA PMT TOTAL	3310- .00 CPA PMT TOTAL	7130- 3180- 7130- .00 CPA PMT TOTAL		ActPd - 2019/10
.00 BPY PMT TOTAL	263.31 24795 .00 EPY PMT TOTAL	1,317.91 24794 841.33 24794 5,963.10 24794 .00 EPY PMT TOTAL	NET CHECK ACH A AMOUNT NO. PMT P	
00	OFFICE EQUIPMENT	REFUSE COLLECTION SLUDGE REMOVAL REFUSE COLLECTION .00	ACH ACH PMT G/L ACCOUNT DESC.	
TOTAL	TOTAL	TOTAL		
20,255.17	00770 2019-09 263.31	00770 DUMPSTER 00770 SLUDGE 00770 RESIDENTS TRASH 8,209.44	BATCH INV. DESCRIPTION	L

I HEREBY APPROVE THIS REGISTER FOR PAYMENT WITH EXCEPTIONS LISTED BELOW OR PREVIOUSLY DOCUMENTED. THE TOTAL 20,255.17- EQUALS THE WEEKLY LOG SHEET TOTALS AS ADJUSTED.

TOWN MANAGER

DATE

	AP100B 10/17/2019 TOWN OF BOWLING GREEN TIME-15:30:27
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HINITOMA	A/P CHECK REGISTER Check Date - 10/17/2019
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					22479 22479 22479 224879 224800 224800 224800 224800 224800 224800 224810 224810	CHECK#
THE					10338 10335 1035 1035 1035 1035 1035 1038 1038 1038	VEND#
I HEREBY APPROVE THIS RETOTAL 14,610.39-	FINAL	T Ada	CHECK	ACH T	BEAZLEY A W CAROLINE COUNTY CAROLINE HIGH SCHOOL FFA CASH CHAPMAN STEWART CHENAULT FRANKIE COLEMAN WICK FRENCH BILL LAWHORNE RIK MAIN STAGE PRODUCTIONS MEMORABLE MOMENTS MIGHTY MUSIC, LLC MVP AWARDS VA EAGLE DISTRIBUTING WOOD RICHARD A CLASS	VENDOR
REGISTER EQUALS	FINAL TOTAL	EPY TOTAL	CHECK TOTAL	TOTAL	TO 17AL	CLASS
FOR					10/17/2019 10/17/2019 10/17/2019 10/17/2019 10/17/2019 10/17/2019 10/17/2019 10/17/2019 10/17/2019 10/17/2019 10/17/2019 10/17/2019 10/17/2019 10/17/2019 10/17/2019 10/17/2019	DATE
PAYMENT WITH EXCEPTIONS WEEKLY LOG SHEET TOTALS	14,610.39	.00	14,610.39	.00	1,500.000 1,500.000 1,500.000 1,500.000 1,500.000 1,700.000 1,7100.000 1,5113.000 1,5153	AMOUNT
LISTED BELOW AS ADJUSTED.	.00					DISCOUNT
OR PREVIOUSLY DOCUMENTED.						

TOWN MANAGER

DATE

ActPd - 2019/10

NET CHECK ACH ACH ACH AMOUNT NO. EMT ENT 6 600.00 24796 .00 EPY PMT TOTAL 600.00 24797 .00 EPY PMT TOTAL 500.00 24799 300.00 24799 200.00 24799 200.00 24799 200.00 24799 200.00 EPY PMT TOTAL 1,500.00 24800 .00 EPY PMT TOTAL 100.00 24802 .00 EPY PMT TOTAL 500.00 24803 .00 EPY PMT TOTAL 550.00 24804 .00 EPY PMT TOTAL 550.00 24804 .00 EPY PMT TOTAL 550.00 24806 .00 EPY PMT TOTAL 550.00 24806 .00 EPY PMT TOTAL 550.00 24807 .00 EPY PMT TOTAL 550.00 24808 .00 EPY PMT TOTAL 1,113.00 24808 .00 EPY PMT TOTAL 550.00 EPY PMT TOTAL 1,113.00 24809 .00 EPY PMT TOTAL 550.00 EPY PMT TOTAL 550.00 EPY PMT TOTAL 2,400.00 24809 .00 EPY PMT TOTAL 1,113.00 24809 .00 EPY PMT TOTAL 550.00 EPY PMT TOTAL 2,047.39 24810 2,047.39 24810	0000000 001038 VA EAGLE DISTRIBUTING 20191017 10/17/2019 4400-071200-1210- DISC. TOTAL .00 CHECK TOTAL 2,047.39 ACH PMT TOTAL .00 CPA PMT TOTAL	0000000 000593 NEAL CHAD 20191017 10/17/2019 4400-071200-1210- DISC. TOTAL .00 CHECK TOTAL 550.00 ACH PMT TOTAL .00 CPA PMT TO	0000000 000651 MVP AWARDS 17882 10/17/2019 4400-071200-1210- DISC. TOTAL .00 CHECK TOTAL 1,113.00 ACH PMT TOTAL .00 CPA PMT TO	0000000 001069 MIGHTY MUSIC, LLC 20191017 10/17/2019 4400-071200-1210- DISC. TOTAL .00 CHECK TOTAL 1,700.00 ACH PMT TOTAL .00 CPA PMT TO	0000000 000515 MEMORABLE MOMENTS 20191017 10/17/2019 4400-071200-1210- DISC. TOTAL .00 CHECK TOTAL 500.00 ACH PMT TOTAL .00 CPA PMT TO	0000000 000416 MAIN STAGE PRODUCTIONS 20191017 10/17/2019 4400-071200-1210- DISC. TOTAL .00 CHECK TOTAL 2,400.00 ACH PMT TOTAL .00 CPA PMT TOTAL	0000000 000846 LAWHORNE RIK 20191017 10/17/2019 4400-071200-1210- DISC. TOTAL .00 CHECK TOTAL 550.00 ACH PMT TOTAL .00 CPA PMT TO	0000000 000805 FRENCH BILL 20191017 10/17/2019 4400-071200-1210- DISC. TOTAL .00 CHECK TOTAL 500.00 ACH PWT TOTAL .00 CPA PWT TO	0000000 000550 COLEMAN WICK 20191017 10/17/2019 4400-071200-1210- DISC. TOTAL .00 CHECK TOTAL 100.00 ACH PWT TOTAL .00 CPA PWT TO	0000000 001035 CHENAULT FRANKIE 20191017 10/17/2019 4400-071200-1210- DISC. TOTAL .00 CHECK TOTAL 600.00 ACH PMT TOTAL .00 CPA PMT TO	0000000 001072 CHAPMAN STEWART 20191017 10/17/2019 4400-071200-1210- DISC. TOTAL .00 CHECK TOTAL 1,500.00 ACH PMT TOTAL .00 CPA PMT TO	0000000 000865 CASH 20191017 10/17/2019 4400-071200-1210- 0000000 000865 20191017 10/17/2019 4400-071200-1210- 0000000 000865 20191017 10/17/2019 4400-071200-1210- 0000000 000865 20191017 10/17/2019 4400-071200-1210- DISC. TOTAL .00 CHBCK TOTAL 850.00 ACH PMT TOTAL .00 CPA PMT TV	0000000 001070 CAROLINE HIGH SCHOOL FFA 20191017 10/17/2019 4400-071200-1210- DISC. TOTAL .00 CHECK TOTAL 500.00 ACH PMT TOTAL .00 CPA PMT TO	0000000 000621 CAROLINE COUNTY 20191017 10/17/2019 4400-071200-1210- DISC. TOTAL .00 CHECK TOTAL 600.00 ACH PMT TOTAL .00 CPA PMT TO	0000000 000477 BEAZLEY A W 20171017 10/17/2019 4400-071200-1210- DISC. TOTAL .00 CHECK TOTAL 600.00 ACH PMT TOTAL .00 CPA PMT TOTAL	P.O. VENDOR NAME INVOICE INVOICE A/P ACCOUNT NO. NO. VENDOR NAME NO. DATE ACCRL NO.
	2,047.39 24810 HARVE: .00 EPY PMT TOTAL	24809 HARVES Y PMT TOTAL	24808 HARVES	24807 HARVES	00.00 24806 HARVES	2,400.00 24805 HARVES .00 EPY PMT TOTAL	24804 HARVES PY PMT TOTAL	24803 HARVES	24802 HARVES Y PMT TOTAL	24801 HARVES	24800 HARVES PY PMT TOTAL	24799 HARVES 24799 HARVES 24799 HARVES 9Y PMT TOTAL	24798 HARVES	24797 HARVES PY PMT TOTAL	600.00 24796 HARVES	CHECK NO.

AP100 10/17/2019 TOWN OF BOWLING GREEN

A/P CHECK REGISTER

TIME-15:30:27 ActPd - 2019/10

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					24812 24813 24814 24815	CHECK#	AP100B 10/: TIME-15:09:2
I HEREBY APPROVE THIS REGISTER TOTAL 2,019.50- EQUALS	FINA	EPY	CHEC	ACH	297 HALEY SCOTT 546 JOHNSON'S EXTERMINATING 1049 WEX BANK 451 XEROX CORPORATION CLASS	VEND# VENDOR	AP100B 10/18/2019 TOWN OF BOWLING GREEN TIME-15:09:26
EGISTER EQUALS	FINAL TOTAL	EPY TOTAL	CHECK TOTAL	ACH TOTAL	000 000 000 S TOTAL	CLASS	A/
FOR PAYMENT WI					10/18/2019 10/18/2019 10/18/2019 10/18/2019 10/18/2019	DATE	A/P CHECK REGISTER Check Date - 10/18/2019
PAYMENT WITH EXCEPTIONS WEEKLY LOG SHEET TOTALS	2,019.50	.00	2,019.50	.00	100.00 750.00 1,153.50 16.00 2,019.50	AMOUNT	ER 0/18/2019
LISTED BELOW OF AS ADJUSTED.	.00					DISCOUNT	
BELOW OR PREVIOUSLY DOCUMENTED. JSTED.							ActPd - 2019/10

DATE TOWN MANAGER

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BATCH INV.DESCRIPTION

AP100 10/18/2019 TOWN OF BOWLING GREEN

A/P CHECK REGISTER

TIME-15:09:26 ActPd - 2019/10

.00 СН	0000000 000451 XEROX CORPORATION DISC. TOTAL .00 CH	0000000 001049 WEX BANK 0000000 001049 0000000 001049 0000000 001049 DISC. TOTAL .00 CH	0000000 000546 JOHNSON'S EXTERMINATING DISC. TOTAL .00 CHECK	0000000 000297 HALBY SCOTT .00 CH	P.O. VENDOR VENDOR NAME
CHECK TOTAL	162468792 CHECK TOTAL	61700744 61700744 61700744 61700744 61700744 CHECK TOTAL	TATING 20191018 CHECK TOTAL	20191018 CHECK TOTAL	INVOICE NO.
2,019.50 ACH PMT TOTAL 2,019.50 ACH PMT TOTAL	/0000 16.00 ACH PMT TOTAL	10/18/2019 10/18/2019 10/18/2019 10/18/2019 10/18/2019 1,153.50 ACH PMT TOTAL	/0000 750.00 ACH PMT TOTAL	10/18/2019 100.00 ACH PMT TOTAL	INVOICE A
TOTAL					A/P ACCRL
.00 CPA PMT TOTAL	4100-012410-3310- .00 CPA PMT TOTAL	4100-031100-6008- 4100-043100-6008- 4500-500100-6008- 4520-500100-6008- .00 CPA PWT TOTAL	4100-043100-7200- .00 CPA PMT TOTAL	4400-071200-1210- .00 CPA PWT TOTAL	ACCOUNT NO.
.00 EPY PMT TOTAL	16.00 24815 .00 EPY PMT TOTAL	366.86 24814 262.22 24814 262.21 24814 262.21 24814 262.21 24814 .00 BPY PMT TOTAL	750.00 24813 .00 BPY PMT TOTAL	100.00 24812 .00 EPY PMT TOTAL	NET CHRCK ACH ACH AMOUNT NO. PMT PMT
.00 TO	OFFICE EQUIPMENT TO	VEHICLE FUEL/OIL VEHICLE FUEL/ OIL VEHICLE FUEL & OIL VEHICLE FUEL & OIL .00 TO	TOWN HALL EXPENSES	HARVEST FESTIVAL .00 TO	ACH ACH PMT PMT G/L ACCOUNT DESC.
TOTAL 2,019.50 TOTAL 2,019.50	00773 TOTAL 16.00	00773 PC 00773 PW 00773 WATER 00773 SEWER 7077AL 1,153.50	00773 TOTAL 750.00	00773 TOTAL 100.00	BATCH INV.DESCR

I HEREBY APPROVE THIS REGISTER FOR PAYMENT WITH EXCEPTIONS LISTED BELOW OR PREVIOUSLY DOCUMENTED. THE TOTAL 2,019.50- EQUALS THE WEEKLY LOG SHEET TOTALS AS ADJUSTED.

TOWN MANAGER

DATE

CHECK#

24816

TOWN MANAGER

DATE

I HEREBY APPROVE THIS REGISTER FOR PAYMENT WITH EXCEPTIONS LISTED BELOW OR PREVIOUSLY DOCUMENTED. THE TOTAL 1,254.71- EQUALS THE WEEKLY LOG SHEET TOTALS AS ADJUSTED.

1,254.71

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FINAL TOTAL

PAG 39

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		1G 000000	P.O. NO.
		0000000 000257 ON SITE PC DISC. TOTAL	VENDOR NO.
.00	.00	SITE PC	VENDOR NAME
CHECK TOTAL	CHECK TOTAL	4462 CHBCK TOTAL	INVOICE NO.
1,254.71	1,254.71	10/21 1,254.71	INVOICE
ACH PMT TOTAL	ACH PMT TOTAL	10/21/2019 71 ACH PMT TOTAL	ICE A/P E ACCRL
TAL .00 CPA PMT TOTAL	TAL .00 CPA PMT TOTAL	4100-012410-3320- TAL .00 CPA PMT TOTAL	ACCOUNT L NO.
.00 EPY PMT TOTAL .00 TO	.00 EPY PMT TOTAL .00 TO	1,254.71 24816 COMPUTER LICENSES/SUPPORT .00 EPY PMT TOTAL .00 TOTAL	NET CHECK ACH ACH AMOUNT NO. PMT PMT G/L ACCOUNT DESC.
TOTAL 1,254.71	TOTAL 1,254.71	SUPPORT 00774 REESE NEW COMPUTER TOTAL 1,254.71	BATCH INV.DESCRIPTION
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AP100 10/21/2019 TOWN OF BOWLING GREEN

A/P CHECK REGISTER

TIME-14:43:56 ActPd - 2019/10

I HEREBY APPROVE THIS REGISTER FOR PAYMENT WITH EXCEPTIONS LISTED BELOW OR PREVIOUSLY DOCUMENTED. TOTAL 1,254.71- EQUALS THE WEEKLY LOG SHEET TOTALS AS ADJUSTED.

DATE TOWN MANAGER

	22222222222222222222222222222222222222	CHECK#	AP100B 10/25/2019 TIME-11:43:56
ACH TOTAL CHECK TOT	47 CAROLINE GARAGE 1020 CONSOLIDATED PIPE & SUP 1058 DIAMOND SPRINGS 341 DOMINION CHEMICAL CO 1052 ENCO UTILITY SERVICES FLO 743 LOCAL SERVICES 48 MID-ATLANTIC LAB 1042 OMNIGO SOFTWARE 919 PRO SHRED SECURITY 11 RAPPAHANNOCK ELEC COOP 1030 RED WING SHOES 861 THE UPS STORE #6358 CLASS	VEND# VENDOR	25/2019 TOWN OF BOWLING GREEN
ACH TOTAL CHECK TOTAL	TOTAL	CLASS	A/
	10/225/20019 10/225/20019 10/225/20019 10/225/20019 10/225/20019 10/225/20019 10/25/20019 20019 10/25/20019	DATE	P CHECK REGISTER Check Date - 10/
.00	186.80 58.15 384.75 3756.44 1,200.00 2,483.52 1356.96 456.96 6,817.98	AMOUNT	TER 10/25/2019
		DISCOUNT	
			ActPd - 2019/10

TOWN MANAGER

I HEREBY APPROVE THIS REGISTER FOR PAYMENT WITH EXCEPTIONS LISTED BELOW OR PREVIOUSLY DOCUMENTED. THE TOTAL 6,817.82- EQUALS THE WEEKLY LOG SHEET TOTALS AS ADJUSTED.

6,817.82

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EPY TOTAL FINAL TOTAL

0000000 000861 THE UPS STORE #6358	0000000 001030 RED WING SHORS 0000000 001030 0000000 001030 0000000 001030 0000000 001030 0000000 001030 DISC. TOTAL .00	0000000 000011 RAPPAHANNOCK ELEC COOP 0000000 000011 0000000 0000011 0000000 000011 0000000 000011 0000000 000011 01SC: TOTAL .00 CHEC	0000000 000919 PRO SHRED SECURITY 0000000 000919 0000000 000919 DISC. TOTAL .00	0000000 001042 OMNIGO SOFTWARE DISC. TOTAL .00	0000000 000048 MID-ATLANTIC LAB	0000000 000743 LOCAL SERVICES DISC. TOTAL .00	0000000 001052 ENCO UTILITY SERVICES 0000000 001052 0000000 001052 DISC. TOTAL .00 CHE	0000000 000341 DOMINION CHEMICAL DISC. TOTAL .00	000000 001058 DIAMOND SPRINGS 0000000 001058 0000000 001058 0000000 001058 DISC. TOTAL .00	0000000 001020 CONSOLIDATED PIPE DISC. TOTAL .00	0000000 000047 CAROLINE GARAGE DISC. TOTAL .00	P.O. VENDOR VENDOR NAME
358 5037	20191025 20191025 20191025 20191025 20191025 20191025 20191025 CHECK TOTAL	2 COOP 2019-09 2019-09 2019-09 2019-09 2019-09 2019-09 CHECK TOTAL	25240 25728 28304 CHECK TOTAL	IOS003222 CHECK TOTAL	15218 CHECK TOTAL	48846 CHECK TOTAL	FICES PLO 5381 5382 5383 CHECK TOTAL	CHECK TOTAL	20191011 20191011 20191011 20191011 CHBCK TOTAL	& SUP 6291244000000 CHECK TOTAL	24020 CHECK TOTAL	INVOICE NO.
10/25/2019 4	10/25/2019 4: 10/25/2019 4: 10/25/2019 4: 10/25/2019 4: 10/25/2019 4: 10/25/2019 4: 10/25/2019 4: 707.98 ACH PWT TOTAL	10/25/2019 4: 10/25/2019 4: 10/25/2019 4: 10/25/2019 4: 10/25/2019 4: 10/25/2019 4: 10/25/2019 4: 456.96 ACH PWT TOTAL	10/25/2019 43 10/25/2019 43 10/25/2019 41 135.00 ACH PMT TOTAL	10/25/2019 41 2,483.52 ACH PMT TOTAL	10/25/2019 45 60.00 ACH PMT TOTAL	10/25/2019 44 1,200.00 ACH PMT TOTAL	10/25/2019 41 10/25/2019 41 10/25/2019 41 756.44 ACH PMT TOTAL	10/25/2019 45 384.75 ACH PMT TOTAL	10/25/2019 41 10/25/2019 41 10/25/2019 45 10/25/2019 45 58.15 ACH PWT TOTAL	10/25/2019 186.80 ACH PMT TOTAL	10/25/2019 41 93.22 ACH PMT TOTAL	INVOICE A/P DATE ACCRL
4400-071200-1210-	4500-500100-6011- 4520-500100-6011- 4520-500100-6011- 4520-500100-6011- 4520-500100-6011- 4520-500100-601100 CPA PMT TOTAL	4100-043100-5110- 4500-500100-5110- 4500-500100-5110- 4520-500100-5110- 4520-500100-5110- 4520-500100-5110- .00 CPA PMT TOTAL	4100-012110-3140- 4100-012110-3140- 4100-012110-3140- .00 CPA PMT TOTAL	4100-031100-6010- .00 CPA PMT TOTAL	4500-500100-6022- .00 CPA PMT TOTAL	4400-071200-1210- .00 CPA PMT TOTAL	4100-012410-5210- 4100-012410-5210- 4100-012410-5210- .00 CPA PMT TOTAL	4520-500100-6004- .00 CPA PMT TOTAL	4100-043100-5840- 4100-043100-7200- 4500-500100-5840- 4520-500100-5840- .00 CPA PMT TOTAL	4500-500100-6050- .00 CPA PMT TOTAL	4100-031100-3310- .00 CPA PMT TOTAL	ACCOUNT NO.
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AP100 10/25/2019 TOWN OF BOWLING GREEN

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I HEREBY APPROVE THIS REGISTER FOR PAYMENT WITH EXCEPTIONS LISTED BELOW OR PREVIOUSLY DOCUMENTED. THE TOTAL 6,817.82- EQUALS THE WEEKLY LOG SHEET TOTALS AS ADJUSTED.

DATE TOWN MANAGER

43

PAGE 2

I HEREBY APPROVE THIS REGISTER TOTAL 8,533.90- EQUALS FOR PAYMENT WITH EXCEPTIONS WEEKLY LOG SHEET TOTALS LISTED BELOW AS ADJUSTED. OR PREVIOUSLY DOCUMENTED.

TOWN MANAGER

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AP100 10/31/2019 TOWN OF BOWLING GREEN

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AP100 10/31/2019 TOWN OF BOWLING GREEN

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I HEREBY APPROVE THIS REGISTER FOR PAYMENT WITH EXCEPTIONS LISTED BELOW OR PREVIOUSLY DOCUMENTED.

THE TOTAL 8,533.90- EQUALS THE WEEKLY LOG SHEET TOTALS AS ADJUSTED.

DATE

TOWN MANAGER



TOWN OF BOWLING GREEN TOWN COUNCIL MEETING AGENDA ITEM REPORT

AGENDA ITEM: N	/linutes - Se _l	ptember 5, 2	2019 7	Fown Coun	ıcil Meeting
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ITEM TYPE: Consent Agenda

PURPOSE OF ITEM: Decision - By Motion

PRESENTER: Melissa Lewis, towntreasurer@townofbowlinggreen.com

PHONE: (804) 633-6212

BACKGROUND / SUMMARY:

Transcribed Minutes from the September 5, 2019 Town Council Meeting.

ATTACHMENTS:

Minutes and bills approved at the 9/05/2019 meeting

REQUESTED ACTION:

Approve Minutes.

TOWN OF BOWLING GREEN TOWN COUNCIL MEETING

MINUTES

Thursday September 05, 2019 7:00 PM

CALL TO ORDER AND QUORUM ESTABLISHED:

The Mayor called the meeting to order and noted a quorum was present.

PRESENT

Mayor Jason Satterwhite
Vice-Mayor Glenn McDearmon
Council Member Valarie Coyle
Council Member Jean Davis
Council Member Mark Gaines
Council Member Tammie Gaines
Council Member Deborah Howard

ABSENT

Council Member Otis Wright

PUBLIC HEARINGS:

Notice of Application to USDA for Loan/Grant Funds - The Mayor stated that the town had applied for a combination loan/grant package through the USDA to fund water system improvements. Notice of application was published in the Free-Lance Star on August 20, 2019. The Mayor called for public comments on the matter. Hearing none he closed the Public Hearing.

PUBLIC COMMENTS:

<u>Patricia Ernest, 218 Maury Ave.</u> - Ms. Ernest expressed her concern about standing water in front of her house caused by recent utility repairs. She felt that the VDOT contractor did a poor resurfacing job on Maury Ave. near her house.

<u>Bonnie Cannon, 123 S. Main St.</u> - Ms. Cannon asked that VDOT install a storm water drain in front of her house to address standing water. She stated she was unhappy with the crown of the road on S. Main St. and the drivers in the work zone at the intersection of Milford and Main Streets.

STAFF REPORTS & PRESENTATIONS:

The following staff reports were noted:

Bowling Green Police Department Town Council Report August 2019 -

The Police Chief recognized TAC/301 Airsoft Group for its generous donation to the Police Department.

Sgt. Cecil was commended for his efforts in assisting in the search for a detainee that escaped from the local detention center.

Public Works and Utilities Department Council Monthly Report for August 2019

Events Coordinator Council Monthly Report for August 2019

Town Clerk/Treasurer's Monthly Report to Council August 2019

Town Manager's Monthly Report for August 2019

CONSENT AGENDA:

The following Consent Agenda was presented:

August 2019 Bills (attached to these minutes)

August 1, 2019 Town Council Meeting Minutes

Traffic Calming Program Guide

Recommendation of Donation to CCPS Education Foundation

Motion made by Council Member Gaines, Seconded by Council Member Coyle to approve the Consent Agenda as presented.

Voting Yea: Vice-Mayor McDearmon, Council Member Coyle, Council Member Davis, Council Member M. Gaines, Council Member T. Gaines, Council Member Howard

Motion passed.

NEW BUSINESS:

Invocation Parameters - The Town attorney presented Council with a draft policy regarding invocation at Town Council Meetings. The Mayor directed staff to add the policy to October's agenda to give Council time to read and consider the proposed policy for adoption.

REPORT OF COUNCIL COMMITTEES/MEMBER COMMENTS:

<u>Council member T. Gaines</u> – stated that the Utilities, Streets Sidewalks, Building and Grounds Committee had met and discussed the Davis Ct. sewer line replacement project, marking of lines at Main St. and Broaddus Ave., and repair if Maury Ave. resurfacing.

<u>Council member Howard</u> – stated that the Budget, Policy, Personnel, and Ordinances Committee had met and discussed the future of the Town's water system.

Council member Davis – had no comments.

<u>Vice Mayor McDearmon</u> - stated that the EDA has received interest in a project on the Route 301 corridor.

<u>Council member M. Gaines</u> - stated that the Budget, Policy, Personnel, and Ordinances Committee had met and discussed a plan to fund repayment of a loan for water system improvements.

<u>Council member Coyle</u> – stated that the Planning Commission had not in September, its next meeting is scheduled for October.

<u>Mayor Satterwhite</u> - stated that he'd like to display a LOVE sign in Town and asked that staff contact the Virginia Tourism Corporation.

CLOSED SESSION:

Amendment to Town Manager's Contract - In accordance with Section 2.2-3711(A)(1) of the Code of Virginia, motion was made to convene in closed Meeting to consider a personnel matter involving the Town Manager's employment contract.

Motion made by Council Member M. Gaines, Seconded by Vice-Mayor McDearmon. Voting Yea: Vice-Mayor McDearmon, Council Member Coyle, Council Member Davis, Council Member M. Gaines, Council Member T. Gaines, Council Member Howard Motion passed.

RECONVENE IN OPEN SESSION

Motion made by Council Member M. Gaines, Seconded by Council Member T. Gaines to reconvene in Open Meeting.

Voting Yea: Vice-Mayor McDearmon, Council Member Coyle, Council Member Davis, Council Member M. Gaines, Council T. Member Gaines, Council Member Howard.

Motion passed.

CERTIFICATION

Only public business matters lawfully exempted from open meeting requirements in accordance with Section 2.2-3711 (A)(1) of the Code of Virginia and only such public business matters as were identified in the motion by which the closed meeting was convened were heard, discussed or considered.

Certifying Yea: Vice-Mayor McDearmon, Council Member Coyle, Council Member Davis, Council Member M. Gaines, Council Member T. Gaines, Council Member Howard.

Motion made by Council Member M. Gaines, Seconded by Council Member Howard to approve the extension of the Town Manager's employment contract.

Voting Yea: Vice-Mayor McDearmon, Council Member Coyle, Council Member Davis, Council Member M. Gaines, Council Member T. Gaines, Council Member Howard

Motion passed.

<u>ADJOURNMENT</u>

Motion made by Council Member Gaines, Seconded by Vice-Mayor McDearmon to adjourn. Voting Yea: Vice-Mayor McDearmon, Council Member Coyle, Council Member Davis, Council Member M. Gaines, Council Member T. Gaines, Council Member Howard

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TOWN OF BOWLING GREEN TOWN COUNCIL MEETING AGENDA ITEM REPORT

AGENDA ITEM:	Minutes -	October 3, 2019	Town Counci	il Meeting
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ITEM TYPE: Consent Agenda

PURPOSE OF ITEM: Decision - By Motion

PRESENTER: Melissa Lewis, towntreasurer@townofbowlinggreen.com

PHONE: (804) 633-6212

BACKGROUND / SUMMARY:

Transcribed Minutes from the October 3, 2019 Town Council Meeting.

ATTACHMENTS:

Minutes and bills approved at the 10/3/2019 meeting

REQUESTED ACTION:

Approve Minutes.

TOWN OF BOWLING GREEN TOWN COUNCIL MEETING

MINUTES

Thursday October 03, 2019 7:00 PM

CALL TO ORDER AND QUORUM ESTABLISHED:

The Mayor called the meeting to order and noted a quorum was present.

PRESENT

Mayor Jason Satterwhite Vice-Mayor Glenn McDearmon Council Member Valarie Coyle Council Member Jean Davis Council Member Mark Gaines Council Member Tammie Gaines

ABSENT

Council Member Deborah Howard

DELEGATIONS:

There were no delegations.

Council Member Otis Wright

PUBLIC COMMENTS:

There were no Public Comments.

STAFF REPORTS & PRESENTATIONS:

The following staff reports were noted:

Bowling Green Police Department Town Council Report September 2019

Council Monthly Report for September 2019

Events Coordinator Council Monthly Report for September 2019

Town Clerk/Treasurer's Monthly Report to Council September 2019

Town Manager's Monthly Report for September 2019

CONSENT AGENDA:

The following Consent Agenda was presented:

September 2019 Bills

R-2019-009 – Resolution to accept donation to BGPD

R-2019-010 – Resolution of appreciation to TAC/301 Airsoft Group for donation to BGPD

Schedule and Advertise Public Hearing for O-2019-005 – Amendment to enhanced speeding fines

Motion made by Council Member Gaines, Seconded by Council Member Coyle to approve the Consent Agenda as presented.

Voting Yea: Vice-Mayor McDearmon, Council Member Coyle, Council Member Davis, Council Member M. Gaines, Council T. Member Gaines, Council Member Wright

UNFINISHED BUSINESS:

Invocation Policy

Motion made by Vice-Mayor McDearmon, Seconded by Council Member Wright to adopt the Policy Regarding Invocation at Town Council Meetings.

Voting Yea: Vice-Mayor McDearmon, Council Member Davis, Council Member T. Gaines, Council Member Wright

Voting Nay: Council Member Coyle, Council Member M. Gaines

Motion passed.

NEW BUSINESS:

There was no New Business

REPORT OF COUNCIL COMMITTEES/MEMBER COMMENTS:

<u>Council member T. Gaines</u> – noted that the sewer replacement project was on schedule.

<u>Council member Davis</u> – stated the EDA had met in closed session to discuss potential business interest in the RT. 301 corridor.

<u>Vice mayor McDearmon</u> -had no comment.

Council member Wright – had no comments.

Council member M. Gaines - had no comments.

<u>Council member Coyle</u> – stated that the Planning Commission will seek the public's input on the Comprehensive Plan review by forming a Citizen Advisory Committee.

<u>Mayor Satterwhite</u> - noted that the Clerk/Treasurer had resumed full-time hours. He stated that the salary difference would be covered by currently budgeted funds.

The Mayor asked that he had received a request from CCPS for free use of Town Hall. Upon discussion, Council arrived at the consensus to allow CCPS to rent the hall at a discounted price of \$250.00.

Mayor Satterwhite presented a Resolution of Appreciation to TAC/301 Airsoft Group for its generous donation to the BGPD.

ADJOURNMENT

Motion made by Council Member M. Gaines, Seconded by Council Member Coyle to adjourn the meeting.

Voting Yea: Vice-Mayor McDearmon, Council Member Coyle, Council Member Davis, Council Member M. Gaines, Council Member T. Gaines, Council Member Wright

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TOWN OF BOWLING GREEN TOWN COUNCIL MEETING AGENDA ITEM REPORT

AGENDA ITEM: Request for Water Bill adjustment due to leak

ITEM TYPE: Action Item

PURPOSE OF ITEM: Decision - By Motion

PRESENTER: Melissa Lewis, towntreasurer@townofbowlinggreen.com

PHONE: (804) 633-6212

BACKGROUND / SUMMARY:

A resident living on Hilldale Ave experienced a break in her waterline during the July – August billing period. She was not aware of the leak until she received her bill in early September. She was billed for 87,000 gallons resulting in a \$411.06 bill. The resident is on a fixed income and was attempting to find affordable assistance from a plumber. By the time she was able to hire a plumber and fix the broken line she had used an additional 109,600 gallons of water resulting in a second bill for \$506.21.

To avoid disconnection of service, staff accepted partial payment from the resident of \$216.00. The average bill for this household is about \$80.00. At this time there is an outstanding balance of \$236.86 and a new bill of \$506.21 equating to a total due of \$743.07. The Public Works and Utilities Director has confirmed that the leak has been repaired.

The resident has asked for forgiveness in the amount of \$663.07, leaving her with a total amount due of \$80.00 (an approximate average bill.) Staff asks that Council approve the request.

ATTACHMENTS:

None.

REQUESTED ACTION:

Approve request of water bill forgiveness in the amount of \$663.07, allow staff to adjust bill.



TOWN OF BOWLING GREEN TOWN COUNCIL MEETING AGENDA ITEM REPORT

AGENDA ITEM: Source Water Protection Plan

ITEM TYPE: Action Item

PURPOSE OF ITEM: Decision - By Motion

PRESENTER: Billy Deavers, bdeavers@townofbowlinggreen.com

PHONE: (804) 633-6212

BACKGROUND / SUMMARY:

A Source Water Protection Plan is an important tool to be used by the Public Works and Utilities Department to both protect groundwater sources and establish procedures to mitigate costly remediation should water source become contaminated. Adopting a Source Water Protection Plan is highly recommended by the Virginia Dept. of Health.

ATTACHMENTS:

Source Water Protection Plan

REQUESTED ACTION:

Adopt the attached Source Water Protection Plan

Source Water Protection Plan

2019

For the Town of Bowling Green PWSID 6033550

Prepared by:



Funded by:





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Record of Review

The Source Water Protection Plan should be reviewed and revised at least every 3 years.

Date of Review	Name of Reviewer	Description of Updates (if any)
2018	VDH	Individual System Source Water Assessment Report (SWAR)
2019	Tetra Tech	Major Plan Update

1. Statement of Adoption

The Town of Bowling Green, hereafter referred to as the Town, adopted this Source Water Protection Plan and has a copy of the plan on file with the Virginia Department of Health Office of Drinking Water (VDH-ODW). The Town is the governmental entity that provides public water service within Caroline County. The service and assistance of the waterworks' representatives in preparation of the plan is acknowledged and greatly appreciated.

[VDH-ODW recommends inserting a copy of the page from Town Council/Board of Supervisors meeting minutes recording the adoption of the Source Water Protection Plan.]

2. Introduction

2.1. Protection of Groundwater Sources

Protection of sources which supply public drinking water is of vital importance to the residents serviced by the Town.

The water supply represents a valuable resource and investment which, if it were to become polluted, could negatively impact public health and would be expensive to restore or replace. Reducing or preventing chemical and microbiological contamination of water sources can ideally allow public water systems to avoid costly treatments and minimize future monitoring requirements. When drinking water is contaminated, costs include the following:

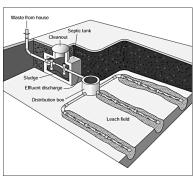
- Providing emergency replacement water;
- Paying for treatment and/or remediation expenses;
- Finding and developing new supplies;
- Paying for consulting services and staff time;
- Litigating against responsible parties;
- Conducting public information campaigns when incidents occur;
- Failing to meet the regulations of the Safe Drinking Water Act;
- Reducing property value or tax revenue;
- Adding health-related costs from exposure to contaminated water;
- Economic impacts, such as interruptions to businesses and loss of development opportunities; and
- Losing community acceptance of treated drinking water.

Source Water Protection is a voluntary program in Virginia. Proposed source water protection strategies are not mandated by state or federal regulations. Proposed commitments and schedules by waterworks' representatives are subject to change.

To avoid costly remediation, it is vital to reduce or prevent chemical and microbiological contamination of source waters. There are many normal day-to-day activities that could have the unintended consequence of compromising the community's drinking water supply. Some of the activities include:

- Improper use and disposal of household chemicals and fuels:
- Lawn treatments (excess fertilizers, and pesticides);
- · Leaking oil and heating fuel tanks; and
- Improper management of septic systems.

To maintain quality drinking water, it is important to reduce and/or eliminate hazardous activities.



Septic Tank Schematic

Groundwater can be contaminated by several different pathways:

- Infiltration from the surface;
- Leachate from onsite wastewater (septic) systems;
- Introduction of contaminants from the surface through improperly constructed or defective wells;
- Direct contamination through sink holes or other geologic features; or
- Dissolution of naturally-occurring substances in the soil or rock.

Contaminant movement is affected by the properties of the aquifer as well as the overlying soils. Preventing contamination is paramount in keeping groundwater supplies safe.

2.2. Plan Purpose

The purpose of the Source Water Protection Plan (SWPP) is to protect groundwater, which serves as a source of public water supply, from the threat of contamination as a result of accidents or unwise practices from nearby residential, industrial, commercial, agricultural, waste management, or transportation activities.

2.3. Plan Goals

The goals of the SWPP are:

- To promote public health, economic development, and community infrastructure by maintaining an adequate drinking water supply for all residents of the community;
- To create an awareness of the communities' drinking water source(s); and
- To provide for a comprehensive action plan in case of an emergency affecting the water source.

3. Local Advisory Committee (LAC)

The purpose of the LAC is to evaluate the site-specific risks to the source water, develop site-specific recommended actions to mitigate the risks, and to ensure that the recommended actions are implemented. Community involvement is a critical element to developing a successful SWPP. The LAC involves the community in this process by incorporating community members and local officials into its membership, and by holding meetings with local stakeholders.

The LAC membership typically consists of waterworks employees, town or local government officials, county or regional government representatives, board members, and/or water customers. Extensive knowledge of source water protection or the water system components is not a prerequisite to being a committee member.

Table 1. Bowling Green Local Advisory Committee (LAC)

Name	Organization	Title
Billy Deavers	Town of Bowling Green	Director of Public Works
Shawn Fortune	Town of Bowling Green	Supervisor of Public Works
Reese Peck	Town of Bowling Green	Town Manager
David Lipscomb	Town of Bowling Green	Police Chief

The LAC contributes information to aid the development of the SWPP, reviews draft SWPPs, and ensures the implementation of recommended actions. The recommended actions that the LAC proposes are presented to the local officials and the waterworks for implementation.

The LAC holds meetings to solicit information from other local stakeholders, such as emergency response personnel, local health professionals, land or business owners, and other concerned citizens.

After reviewing the available information, characterizing the water source and the Source Water Protection Area, the LAC develops recommended actions to best protect the Town's water source(s). The recommended actions developed by the LAC are listed in the following section.

4. Recommended Actions

The following source water protection measures are recommended to prevent potential contamination of the Town's water supply.

Table 2. Summary of Recommended Implementation Activities

Action Number	Recommended Action	Planned Completion Date	Actual Completion Date
1	Provide information about source water protection on www.townofbowlinggreen.com, including the Annual Water Quality Report.		CCR yearly provided on the website.
2	Annually review with pertinent emergency response personnel at Caroline County Emergency Services of the designated SWPA zones and appropriate response procedures. Provide an emergency information sheet that shows the SWPAs, roads, and emergency contact information. Conduct an annual meeting/training/review with emergency response personnel to highlight the significance of the SWPAs and review appropriate response procedures for incidents in the SWPAs.		
3	Work with County officials and the citizens committee to update the Bowling Green – Milford Section of the Caroline County Comprehensive Plan (Appendix A) to include goals and policies to facilitate source water protection.	Update in 2030	
4	Seek grant funding to rectify wellhouse chlorine issues.		
5	Seek grant funding and consider fencing and installing security cameras in vital wellhead areas to prevent graffiti, trash, and vandalism. The wells identified for security improvements include: • Well 01A (Security Cameras) • Well 4 (Security Cameras and Fencing) • Well 5 (Security Cameras) Fencing recommended during VDH inspection.		
6	Seek grant funding to formally abandon or re-drill Well 4 as required by the groundwater permit, and formally abandon Well 6	2025	
7	Seek grant funding to pave access road to Well 4 due to accessibility issues for vehicles during inclement weather.		
8	Seek grant funding to identify groundwater recharge areas.		
	Develop or revise a septic system ordinance requiring that all septic systems shall be maintained in good working order and pumped out once every five years.		Completed prior to July 2017
	Evaluate and rank the potential risk (from highest to lowest) of each of the Potential Sources of Contamination. Factors to consider are:		Completed in 2019 SWPP

5. Source Water Assessment & Protection Areas

5.1. Delineation of Source Water Assessment & Protection Areas

VDH delineates two different Source Water Assessment Area zones for each waterworks source. These zones are defined for groundwater sources as follows:

- Zone 1 is a 1,000-foot fixed radius around the well and is a priority zone for managing potential sources of contamination; and
- Zone 2 is a one-mile (5,280-feet) fixed radius outside of Zone 1.

The circular Zone 1 and Zone 2 delineations described above assume that the source is withdrawing from a confined aquifer comprised of uniform unconsolidated material. For groundwater sources which do not withdraw from a confined aquifer, the VDH recommends further study to delineate Zone 1 and Zone 2 assessment areas specific to each source. The Zone 1 assessment area should be defined as the area most at risk of source water contamination and the Zone 2 assessment area should be defined as the entire recharge area.

For the purposes of this plan, the Source Water Protection Area (SWPA) is defined as the area encompassing the Zone 1 and Zone 2 Source Water Assessment Areas. A map of the SWPA for each source is provided in Appendix A.

Table 3. Summary of Public Well Details

System	Well Count	Connections	Population	
Town of Bowling Green	3	900		1,500

As indicated in Table 3, the Town relies on 3 wells to supply raw water to 900 connections for approximately 1,500 people. All wells have been designated with low susceptibility to contamination by the VDH because they are "properly constructed groundwater source[s] located in an area that tends to inhibit contaminant migration [and] is protected with an appropriate aquitard¹". Appendix D summarizes the construction verification for each of the wells. The Town's wells do have Potential Sources of Contamination (PSC) in within the SWPA.

Table 4. Wells Addressed in this Plan

Well Name	Contamination Susceptibility
WL01A	Low
WL004	Low
WL005	Low

¹ VDH Source Water Assessment Report December 3, 2018. See Appendix I

5.2. Geological Characterization

The Town system and wells are located in an unconsolidated aquifer. Unconsolidated aquifers are principally composed of sand and gravel and are typically found in river valleys and in the Virginia Coastal Plain physiographic province. These aquifers yield water via the pore spaces between the individual grains, which tend to be large for coarse-grained well-sorted aquifer material. Appendix A-3 contains geological maps.

The Town is located in a Groundwater Management Area. Groundwater Management Areas are declared by Virginia Administrative Code 9VAC25-600-20 and managed by the Virginia Department of Environmental Quality. Wells in these areas are required to meet additional construction standards beyond the Virginia Waterworks Regulations. Withdrawals of 300,000 gallons per month or more in these areas require a groundwater withdrawal permit.

5.3. Land Use

Existing land use maps for the SWPAs are presented in Appendix B-1. The Town's water system consists of three public wells. SWPA Zone 1 for WL01A is predominantly developed land. WL004 Zone 1 SWPA contains mostly developed open space with some forest. WL005 Zone 1 SWPA is predominantly forest with some mixed developed uses and cropland. Zone 2 SWPAs overlap significantly. There is a wide variety of land uses but Zone 2 SWPA land use consists primarily of forest and developed land uses. The Bowling Green Bypass, labeled State Route 301, transects Zone 2 SWPA for all three wells and Zone 1 SWPA for WL01A. Major roads may be used to transport unknown potential contaminants.

5.4. Future Land Use

Future land uses are identified in the Bowling Green - Milford Community Plan² and the Bowling Green Comprehensive Plan³. Future Land Use maps are presented in Appendix B-2.

The 2008 Bowling Green, Virginia Comprehensive Plan identified abandoned wells, leaking drain fields, and failing septic systems as potential groundwater contamination sources. Future population projections indicate a potential increase of 300 people by 2030. The current system capacity, 365,000 gallons per day, is sufficient to meet projected demand.

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² https://co.caroline.va.us/DocumentCenter/View/399/Appendix-A---Bowling-Green-Milford-Plan-PDF

https://www.townofbowlinggreen.com/sites/default/files/fileattachments/public_works/page/2731/bg_comp_plan_adopted_080708_1.pdf

6. Potential Sources of Contamination (PSC)

VDH develops an inventory of PSC within the SWPA through its Source Water Assessment Program. This inventory contains information regarding the ownership of the PSC, the types of contaminants produced by the PSC, as well as the distance of the PSC to the water source. This inventory is summarized in Appendix E. The location map of PSC within the SWPA are also presented in Appendix E. These PSC include publicly available information from DEQ, VDH, EPA, and other sources. DEQ hosts an online VEGIS mapping inventory at: https://apps.deq.virginia.gov/mapper_ext/.

The risk of each PSC varies depending on proximity to the well and potential pathways to reach groundwater. The highest priority area for protection includes the activities within Zone 1 of the SWPA. The Town should use the inventory of PSCs in Zone 1 in evaluating the risk posed by each PSC and the need for protection measures.

The PSCs generally can be categorized as:

- Closed Storage Tank Releases
- Pesticides, Fertilizers and Agricultural Land Uses
- Concentrated Residential or Municipal Areas
- Public and Private Waste Water
- Private Wells
- Industrial Facilities
- Illegal Dump Sites
- Impaired Streams

The 2008 Bowling Green, Virginia Comprehensive Plan identified abandoned wells, leaking drain fields, and failing septic systems as potential groundwater contamination sources. Though 85 septic systems are in located in Town, owners are required to pump-out or to have an inspection every 5 years. New residential structures must connect to an available public sewer line. There are private individual septic systems and public waste water systems located in and near the SWPA. Accidental releases may allow untreated waste water to contaminate the water resource. Failing private septic systems can leach waste into surrounding soils and potentially contaminate the source water. The Comprehensive Plan also identified and inventoried all underground gas tanks. Fifteen tanks existed on 6 individual tax parcels. Many of these sites are not within SWPAs.

Six Closed Storage Tank Releases exist in the Town of Bowling Green SWPAs. Threats associated with storage tanks may be from historic or active facilities. If these tanks remain at historic sites, they may contain residual chemicals/oils that could contaminate the source if they were to leak. For active facilities, storage tanks potentially contain materials that if released would pose a risk to public health. The PSC categorized as Closed Storage Tank Releases are those for which DEQ opened and closed an investigation. These sites may pose no threat to the water resource or leaking may have occurred. For more information on specific sites, DEQ provides a database in CSV format called i_register.txt. This database may be downloaded from

the following site:

https://www.deq.virginia.gov/Programs/LandProtectionRevitalization/PetroleumProgram/FilesForms/DataandRecords.aspx. The same information is provided on the VEGIS mapping site.

There are 2 facilities inside Zone 2 for Town of Bowling Green SWPAs subject to the Resource Conservation and Recovery Act (RCRA). RCRA is the public law that creates the framework for the proper management of hazardous and non-hazardous solid waste as well as underground storage tanks. The RCRA sites in Town of Bowling Green SWPAs concern gas or automotive industries. Some sites may require a Hazardous Waste Management Permit, meaning they are engaged in the treatment, use, or disposal of hazardous waste. Such facilities can be a source of a wide variety of contaminants depending on the historical use of the site.

Underground Storage Tanks (USTs), particularly those at historic sites, may leak and contaminate groundwater sources. In addition to gas stations, many businesses in the community were observed to have vehicle maintenance facilities, including auto sales lots and industrial facilities with company-owned vehicle fleets. The USTs are included as RCRA sites.

The source assessment found record of 2 underground injection wells in the SWPA of Town of Bowling Green system wells. Depending upon the depth, injection wells within the SWPA can potentially contaminate the groundwater source. Locational information for the underground injection wells in the SWPA were provided by the US Environmental Protection Agency (USEPA) Underground Injection Control Program.

Major highways run through the Zone 1 and Zone 2 SWPAs. Major routes may carry heavy truck traffic through the region. A release from a vehicle accident may result in a hazardous materials spill. If a hazardous materials spill were to occur, the substance spilled could infiltrate into the ground and potentially contaminate the water supply. Lubricants, antifreeze, and other automotive fluids, in addition to gasoline and diesel, can cause contamination of groundwater sources if not cleaned up and disposed of properly.

Pesticides and fertilizers used for farm operations can migrate into the water supply. Areas used for disposal of animal waste or burying dead livestock can also cause contamination of the source water. Feed stores and home improvement stores that sell fertilizer and pesticides can be sources of contamination if these chemicals are not stored properly.

Some wells are located close to developed areas within town limits. Municipal and industrial areas have a concentration of homes, businesses, schools, and other facilities that may collectively introduce contaminants into water at a concentration to cause concern. There are 15 industrial sites, and 2 known tire piles in the SWPAs. Stormwater runoff, care of public grounds, maintenance of city and county vehicles at garages, and residents' activities in and outside their homes can contribute to contamination of the water source including use and storage of fertilizers, pesticides, oils, paints, cleaning agents, etc. Other potential conduits include offline wells and contaminated streams that may feed ground water resources.

Identification of existing contamination sources may address immediate concerns about protection of the local water supply. To ensure that the supply remains uncontaminated,

continual review of land use activities and identification of potential sources of contamination is necessary.

7. Source Water Protection Plan

The SWPP describes the actions necessary to minimize the risk to the quality of the source water utilized by the Town. The goal of the plan is to reduce or eliminate potential threats to drinking water supplies within the SWPA either through existing regulatory or statutory controls, or by using non-regulatory (and often voluntary) measures centered around an involved public.

7.1. Existing Measures and Activities

Current measures in place for protecting the quality of water within the SWPA are:

- The Virginia Department of Health provided and updated a Source Water Assessment Report (SWAR) in December 2018 for each of the Town's wells, provided in Appendix I.
- Article IV, Chapter 98, Section 18 of the Caroline County Code of Ordinances specifies
 that subdivisions will not be approved without appropriate sanitary sewers or septic
 tanks. Article III requires permits and inspections for all private sewage disposal and
 requires permits for installation or repair of septic systems.
- The Town provides adequate treatment to ensure water quality for customers and provides yearly Water Quality Reports.
- The Town Code Section 3-159 Performance Standards regulates agricultural activity in the Town and additionally restricts activity in Chesapeake Bay Preservation Areas to protect water resources. Section 5 restricts use of the sanitary sewer network and prohibits use of the treatment works as a discharge for pollutants.

7.2. Source Water Protection Emergency Response Plan

An Example Emergency Response Plan was created in 2004 by Whitman, Requardt & Associates pertaining to most emergencies potentially encountered by the Town of Bowling Green system. In addition to this resource, the "Emergency Response Planning Template for Public Drinking Water Systems" produced for the Rural Community Assistance Partnership National Network and the Rural Community Assistance Corporation (2005) was used to develop an Emergency Response Plan specifically concerning source water protection. The Emergency Response Plan provides contact information and defines basic emergency response procedures to aid the waterworks in responding to a source water contamination event. The Source Water Protection Emergency Response Plan is located in Appendix F.

7.3. Public Education and Outreach

For citizens to appreciate the benefits of source water protection, they must first understand what the problems are in providing safe drinking water, and how they can become involved in the process. Public education is the greatest promoter of voluntary action and public support for a community's wellhead source water protection program. The Town provides customers yearly Water Quality Reports via individual mail.

Activities and opportunities should be sought that will increase public awareness that source water protection is a local issue and that each citizen plays a part. A public education brochure template is available in Appendix C. Some other examples of public education and outreach include providing information about source water protection on the waterworks website and in the Annual Water Quality Report and installing signs along roads in high visibility locations near the designated boundary of the SWPA that state "Entering Town of Bowling Green Source Water Protection Area".

7.4. Implementation and Funding

The initial step in implementation should be to discuss responsible parties and timelines to implement the strategies. Community members can determine the best process for completing activities within the projected time periods. Feasible source management strategies are addressed in the Recommended Actions Section of this Plan.

Numerous funding opportunities are available to aid communities in the implementation of source water protection initiatives. The following is a summary funding sources currently available to support source water protection in Virginia:

<u>Litter Prevention and Recycling Grant Programs</u> – Virginia Department of Environmental Quality

Funding type: grant

Description: This program coordinates annual competitive and non-competitive Litter Prevention and Recycling Grant Programs to support localities' recycling and litter prevention activities. Contact program staff at 804-698-4029 to determine what resources may be available to encourage cleanup and reporting of dump sites.

Link: http://www.deq.virginia.gov/Programs/LandProtectionRevitalization/RecyclingandLitt erPreventionPrograms.AutiterPreventionandRecyclingGrantPrograms.aspx

<u>Wellhead Protection Implementation Projects Grants</u> – Virginia Department of Health – Office of Drinking Water

Funding type: grant

Description: This program supports the implementation of wellhead protection projects including well abandonment, educational outreach, wellhead fencing, advancing ordinances, emergency response planning, hazardous waste collection, and protection area delineation. This program requires that the waterworks have a protection strategy in-place (i.e. Source Water Protection Plan) and an active source water protection committee.

Link: http://www.vdh.virginia.gov/drinking-water/source-water-programs/source-water-protection-assistance-funding-opportunities/

<u>Drinking Water State Revolving Fund</u> – Virginia Department of Health – Office of Drinking Water

Funding type: low interest loan with possible principal forgiveness

Description: This program provides planning funding, which could be used to analyze solutions to source water measures or evaluate potential new sources. This program also provides low interest loans with possible principal forgiveness for waterworks construction projects including new wells and intake modifications, and low interest loans for waterworks to acquire land or conservation easements and to establish local voluntary incentive-based source water protection measures. Funding is prioritized for small, financially stressed, community waterworks.

Link: http://www.vdh.virginia.gov/drinking-water/financial-construction-assistance-programs/

Nonpoint Source Management Implementation Grant Program – Virginia Department of Environmental Quality

Funding type: grant

Description: This program provides grants for watershed projects, demonstration and educational programs and nonpoint source pollution control program development.

Link: http://www.deq.virginia.gov/Programs/Water/WaterQualityInformationTMDLs/NonpointSourcePollutionManagement.aspx

<u>Virginia Wastewater Revolving Loan Fund</u> – Virginia Department of Environmental Quality

Funding type: low interest loan

Description: This program provides low interest loans for acquisition of title or other rights to real property to protect or improve water quality, and for storm water runoff control best management practices.

Link: http://www.deq.virginia.gov/Programs/Water/CleanWaterFinancingAssistance/VCW RLFTableofContents.aspx

Virginia Clean Water Revolving Loan Fund – Virginia Department of Environmental Quality

Funding type: low interest loan

Description: This program primarily funds wastewater treatment projects, but also funds agricultural best management practices and non-point Source Pollution Abatement. This program can provide low interest loans to waterworks or localities to provide loans or other incentives to facilitate the implementation of agricultural best management practices.

Links:

Land conservation -

http://www.deq.virginia.gov/Programs/Water/CleanWaterFinancingAssistance/LandConservation.aspx

Stormwater -

http://www.deq.virginia.gov/Programs/Water/CleanWaterFinancingAssistance/StormwaterFundingPrograms/StormwaterLoans.aspx

Stormwater Local Assistance Fund - Virginia Department of Environmental Quality

Funding type: cost-share

Description: This fund provides matching grants for stormwater projects including new stormwater best management practices, stormwater best management practice retrofits, stream restoration, low impact development projects, buffer restorations, pond retrofits, and wetlands restoration.

Link: http://www.deq.virginia.gov/Programs/Water/CleanWaterFinancingAssistance/StormwaterFundingPrograms/StormwaterLocalAssistanceFund(SLAF).aspx

<u>Virginia Land Conservation Foundation</u> – Virginia Department of Conservation and Recreation

Funding type: grant

Description: Grants are awarded to help fund the purchase of permanent conservation easements, open spaces and parklands, lands of historic or cultural significance, farmlands and forests, and natural areas. This program may allow public waterworks to permanently protect land in the SWPA at little cost to the waterworks.

Link: http://www.dcr.virginia.gov/virginia-land-conservation-foundation/

<u>The Land and Water Conservation Fund State and Local Assistance Program</u> – Virginia Department of Conservation and Recreation

Funding type: cost-share

Description: This program supports the acquisition and/or development of public outdoor recreation areas. This may aid utilities in purchasing land in the SWPA when the source water protection goals do not conflict with the recreational use of the land. It should be noted that all LWCF assisted areas must be maintained and opened, in perpetuity, as public outdoor recreation areas.

Link: http://www.dcr.virginia.gov/recreational-planning/grants

Other Virginia Department of Forestry funding programs -

VDF administers a number of programs aimed at promoting healthy forests and wildlife habitat that may help waterworks to limit erosion on land that they control within the SWPA. Additionally, VDF administers programs aimed at supporting agricultural best management practices. Waterworks can use these programs to promote Best Management Practices within their SWPA.

Link: http://www.dof.virginia.gov/costshare/index.htm

<u>Urban Waters Small Grants Program</u> – US Environmental Protection Agency

Funding type: grant

Description: This program provides small grants to restore their urban waters in ways that also benefit community and economic revitalization. In general, projects should address local water quality issues related to urban runoff pollution, provide additional community benefits, actively engage underserved communities; and foster partnership

Link: https://www.epa.gov/urbanwaters/urban-waters-small-grants

Healthy Watersheds Consortium Grant – U.S. Endowment for Forestry & Communities, Inc.

Funding type: grant

Description: This program provides grants to accelerate strategic protection of healthy, freshwater ecosystems and their watersheds. The primary focus for applicants should be protection and stewardship of the landscape that comprises the watershed, rather than restoration of degraded habitats or projects with a strictly water quality improvement outcome.

Link: http://www.usendowment.org/healthywatersheds.html

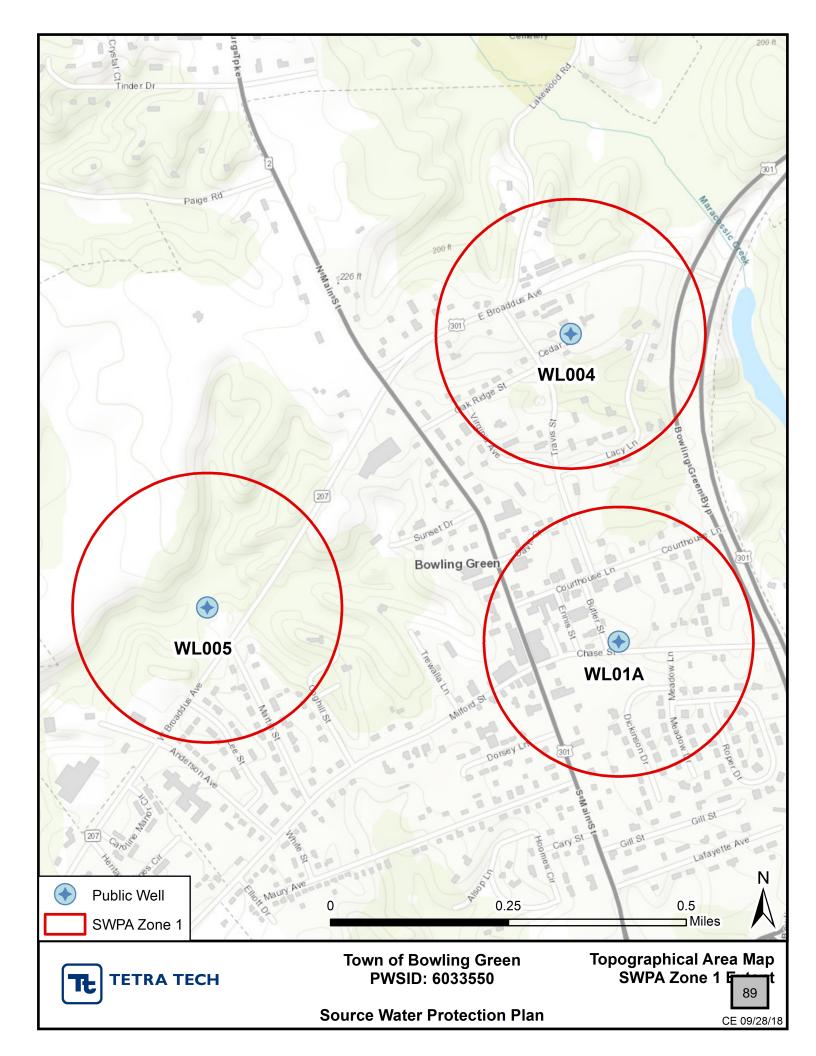
Regional Conservation Partnership Program – U.S. Department of Agriculture

Funding type: cost share

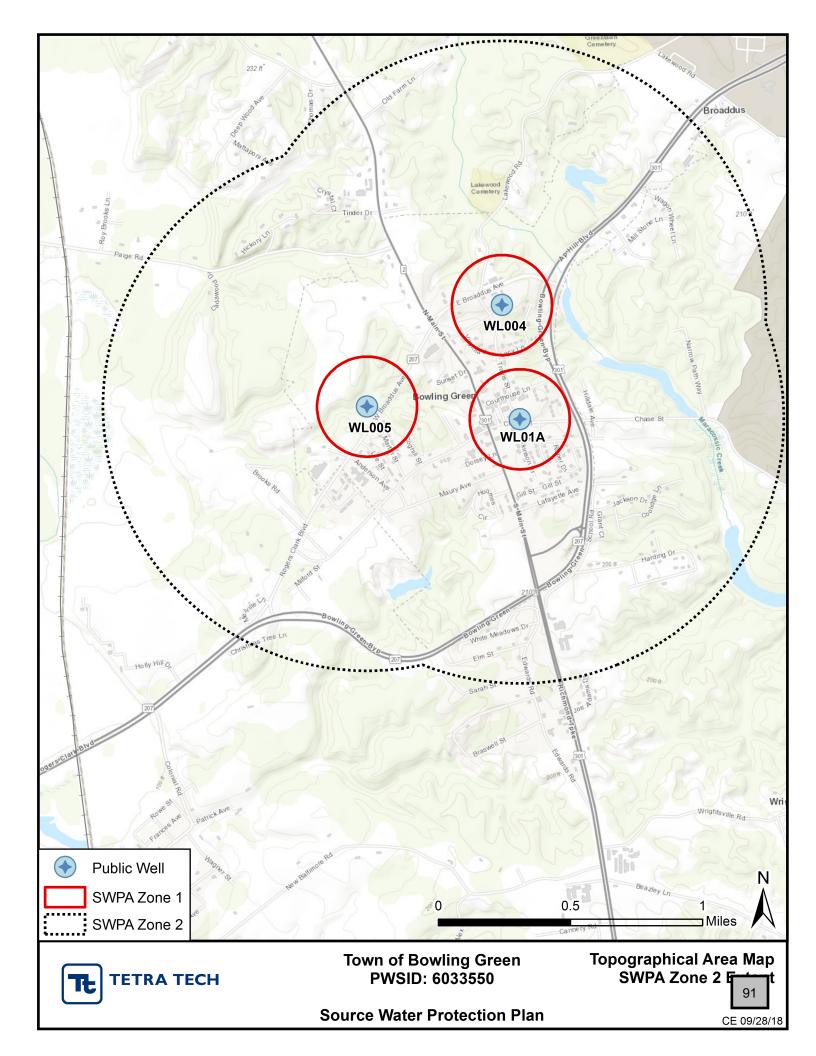
Description: This program provides funding to locally driven, public-private partnerships that improve the nation's water quality, combat drought, enhance soil health, support wildlife habitat and protect agricultural viability. The program connects partners with producers and private landowners to design and implement voluntary conservation solutions that benefit natural resources, agriculture, and the economy. Applicants must match or exceed the federal award with private or local funds.

Link: https://www.nrcs.usda.gov/wps/portal/nrcs/main/national/programs/farmbill/rcpp/

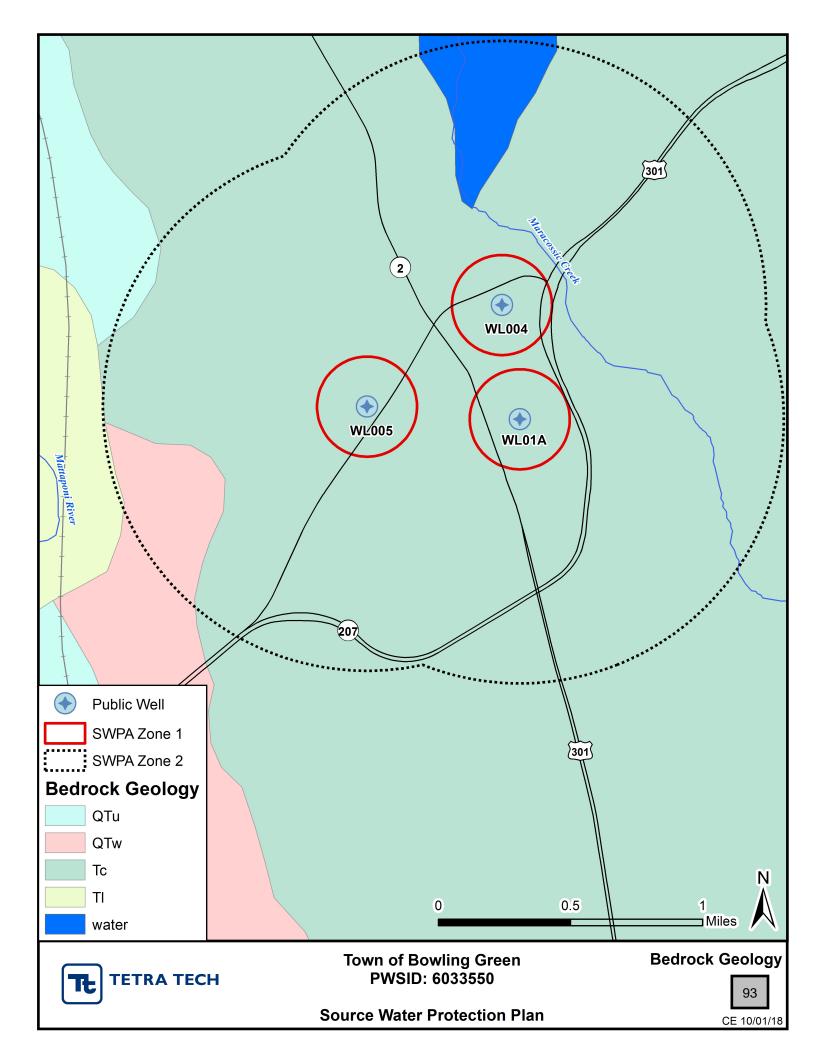
Appendix A-1: Source Water Protection Area Zone 1 Topological Map



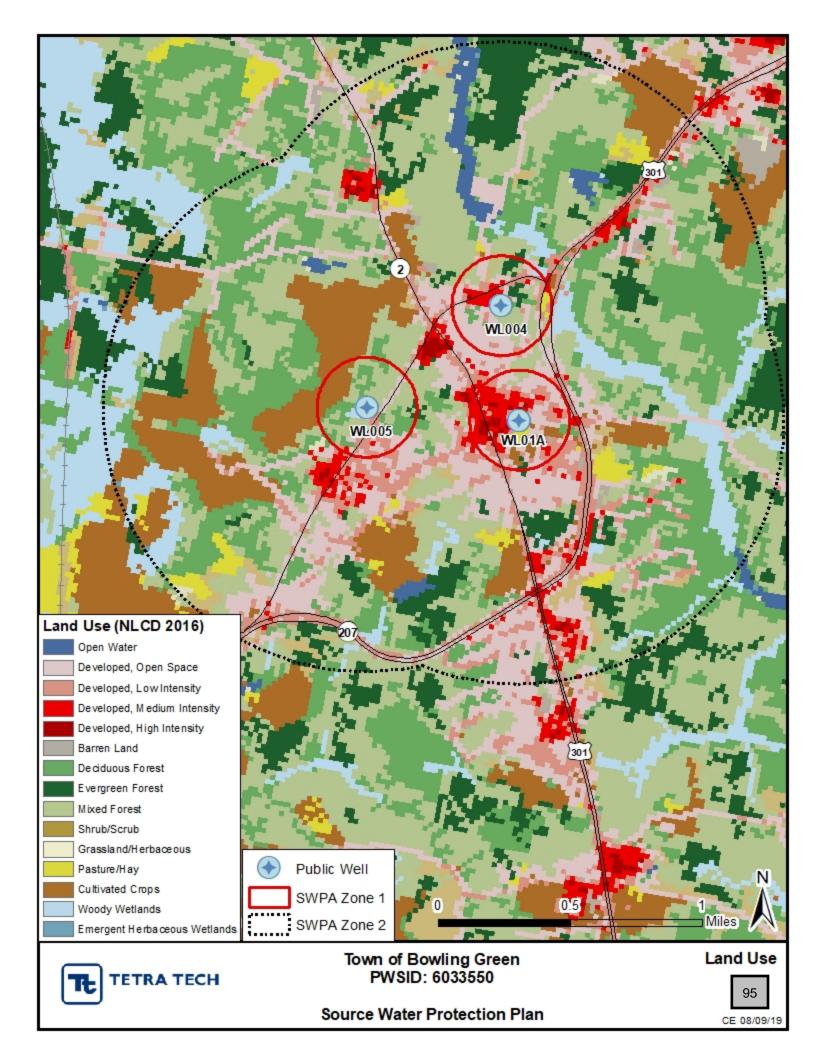
Appendix A-2: Source Water Protection Area Zone 2 Topological Map



Appendix A-3: Source Water Protection Area Geological Maps

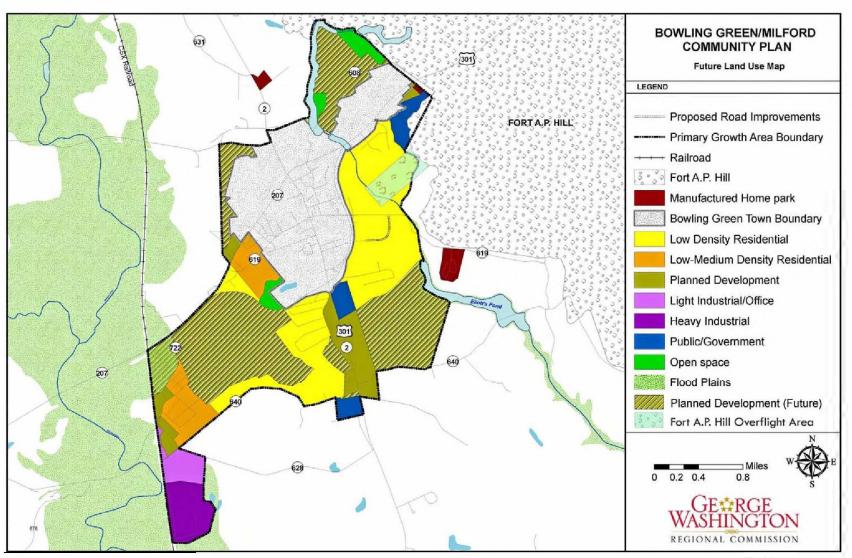


Appendix B-1: Source Water Protection Area Land Use Maps



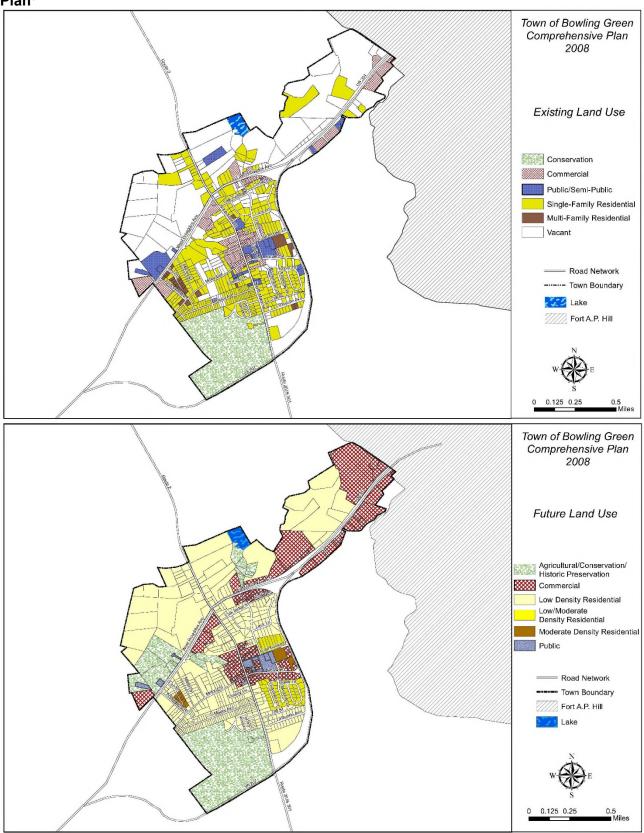
Appendix B-2: Source Water Protection Area Future Land Use Map

Future Land Use map included in the 2006 Bowling Green - Milford Community Plan⁴



⁴ https://co.caroline.va.us/DocumentCenter/View/399/Appendix-A---Bowling-Green-Milford-Plan-PDF

Current and Future Land Use maps included in the 2008 Town of Bowling Green Comprehensive Plan⁵



⁵ https://www.townofbowlinggreen.com/documents

Appendix C: Residential Brochure

How To Protect Your Drinking Water

for residents of the [PWS Name] Source Water Protection Area



[Insert photo of Town Seal/Company Logo here]

For questions regarding the [PWS Name]
Source Water Protection Plan, please
contact:

Name, Title
Phone: 555-555-5555
Fax: 555-555-5555
E-mail: someone@example.com

How Can I Protect My Water?

- Never pour used motor oil or other hazardous waste materials onto the ground or in a storm drain. Find a proper disposal location at http://earth911.com.
- Don't flush unwanted medications.
 Find a drug collection location or event (https://www.deadiversion.usdoj.gov/drug_disposal) or place medications in a sealed container in the trash.
- Minimize the use of fertilizers, pesticides and herbicides on your lawn and farm.
- Join your local watershed organization.
- Learn about your drinking water supply and conserve water in your home.
- Pump your septic system every 3-5 years.
- Keep animals, including livestock and their waste, out of local streams.

suce http://www.ColumbeVortourSWP.org

Where Does My Drinking Water Come From?

Your drinking water comes from [surface water name and/or groundwater]. [include brief description of sources/system].

Why Should I Be Concerned?

The public water supply is a valuable resource that, if contaminated, would negatively impact public health and put a financial burden on the community to restore or replace. As the map below shows, your property is located within our source water protection area. As such, things you do on your property can adversely affect our water source!

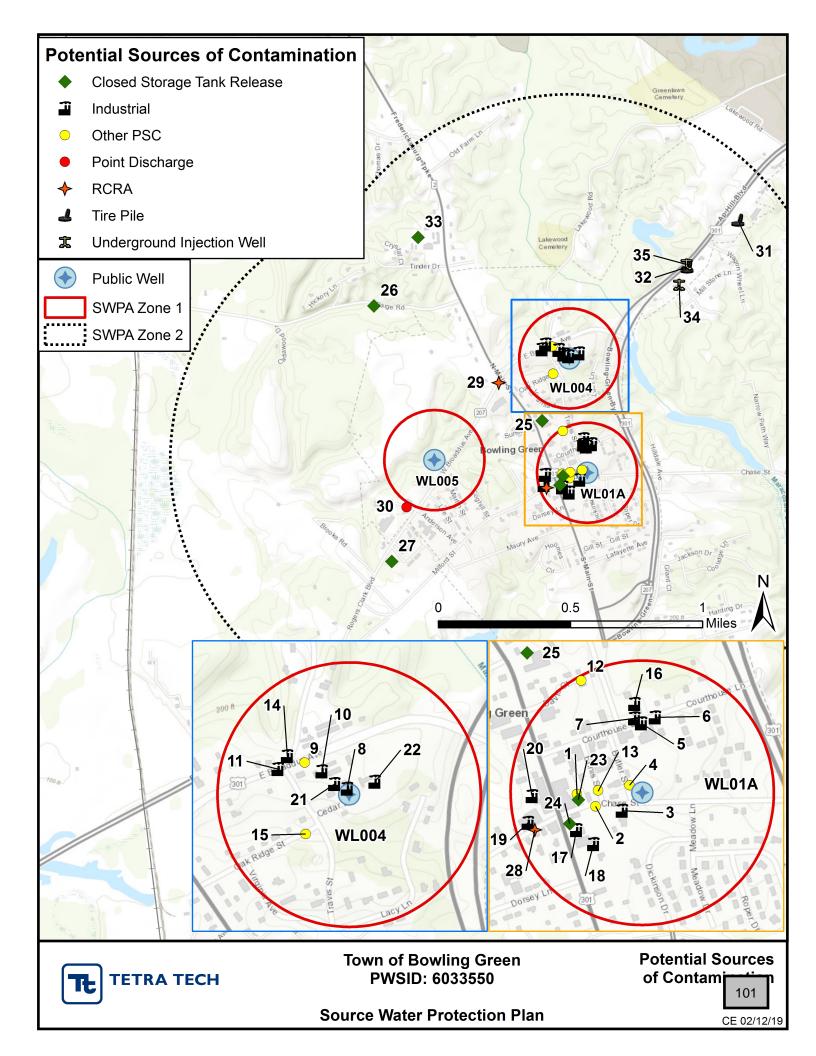


Appendix D: VDH ODW Field Office Construction Verification

District Engineer Douglas Meyer, from the Virginia Department of Health Office of Drinking Water East Central support office, provided email correspondence verification whether wells were constructed in accordance with the *Waterworks Regulations* based on engineering description sheets or well driller logs on file. The table below indicates whether each well meets these requirements.

PWSID	System Name	Source	Meets Construction Requirements?
6033550	Bowling Green	WL01A	Υ
		WL004	Υ
		WL005	Υ

Appendix E: Potential Sources of Contamination Inventory



Summary of Potential Sources of Contamination occurring in or near the Well Head Protection Areas of WL01A

WL01A PSC Types	Zone 1	Zone 2	Totals
Closed Storage Tank Release	2	2	4
Industrial site	9	6	15
Other PSC	5	2	7
Point Discharge		1	1
RCRA	1	1	2
Underground Injection Well		2	2
Tire Pile		1	1
TOTAL	17	15	32

Well 01A Aerial Imagery



Summary of Potential Sources of Contamination occurring in or near the Well Head Protection Areas of WL004

WL004 PSC Types	Zone 1	Zone 2	Totals
Closed Storage Tank Release		5	5
Industrial site	6	9	15
Other PSC	2	5	7
Point Discharge		1	1
RCRA		2	2
Underground Injection Well		2	2
Tire Pile		2	2
TOTAL	8	26	34

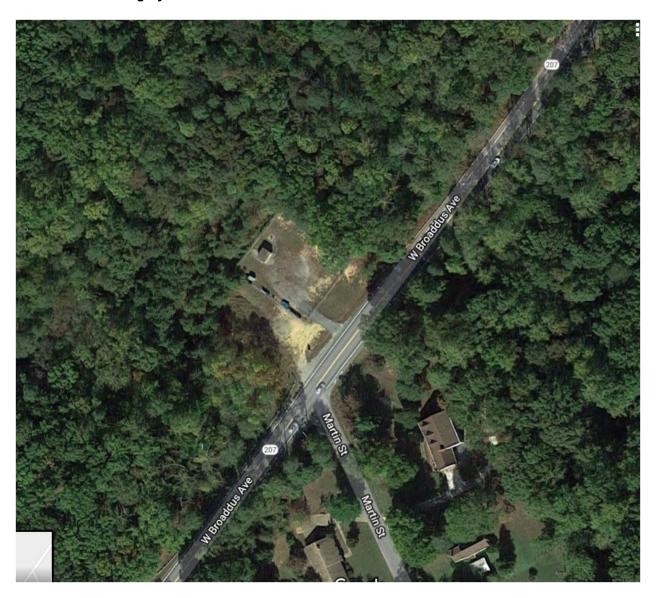
Well 004 Aerial Imagery



Summary of Potential Sources of Contamination occurring in or near the Well Head Protection Areas of WL005

WL005 PSC Types	Zone 1	Zone 2	Totals
Closed Storage Tank Release		6	6
Industrial site		15	15
Other PSC		7	7
Point Discharge		1	1
RCRA		2	2
TOTAL	0	31	31

Well 005 Aerial Imagery



Summary of Potential Sources of Contamination occurring in or near all the Well Head Protection Areas

All PSC Types	Zone 1	Zone 2	Totals
Closed Storage Tank Release	2	4	6
Industrial site	15		15
Other PSC	7		7
Point Discharge		1	1
RCRA	1	1	2
Underground Injection Well		2	2
Tire Pile		2	2
TOTAL	25	10	35

Note: Many of the PSCs occur as duplicates by affecting multiple wells. Every attempt has been made to remove duplicates in this summary table, so the counts represent individual PSCs. However, in some cases duplication exists where a PSC is categorized as two different types. If a PSC occurred in Zone 1 SWPA for any well, it was counted in the Zone 1 column.

Risk Ranking Methodology for Individual PSCs

In 2005 the Virginia Department of Environmental Quality created a Wellhead Protection Plan guidance document. This document contained an inventory establishing the level of risk specific land uses pose to surface and groundwater sources. This resource was used to create a point value methodology for ranking individual PSC risk to source water and is included in Appendix H. Additional factors have also been assigned point values, and the tally of these points represent the Risk Ranking in the Individual PSC Details for Town of Bowling Green Wells table within this Appendix below. The following table indicates risk categories and point values used to rank each PSC and possibly prioritize or gauge the necessity for future protection actions:

Risk Category		Point Value
Land Use Risk	High	4
	Medium	3
	Low	2
	X or Unranked	1
Proximity to Source	Zone 1	2
	Zone 2	1
Number of Systems/Wells Affected		1 per system/well

Individual PSC details for the Town of Bowling Green wells

		Town of Bowling Green PWSID: 6033	550		
Map ID	Contaminant Type	Facility Type	Zone 1 Well	Zone 2 Well	Risk Ranking
1	Inorganics, SOCs, VOCs	Los Dos Amigos heating oil tanks	WL01A	All Wells	8
2	Microbial, nitrate/nitrite, VOCs	sanitary sewer replacement	WL01A	All Wells	7
3	Inorganics, SOCs, VOCs	Bowling Green auto parts	WL01A	All Wells	8
4	Inorganics, SOCs, VOCs	Bethel Baptist Church heating oil tank	WL01A	All Wells	8
5	Inorganics, SOCs, VOCs	fire department	WL01A	All Wells	8
6	Inorganics, SOCs, VOCs	VA Department of Forestry large truck parking	WL01A	All Wells	8
7	Inorganics, SOCs, VOCs	Caroline Garage	WL01A	All Wells	8
8	Inorganics, SOCs, VOCs	Truck Yard Strokers Unlimited	WL004	All Wells	8
9	Inorganics, SOCs, VOCs	residential heating oil tank	WL004	All Wells	8
10	Inorganics, SOCs, VOCs	Shell gas station	WL004	All Wells	8
11	Inorganics, SOCs, VOCs	Old gas station; now sells trousers	WL004	All Wells	8
12	Inorganics, SOCs, VOCs	residential heating oil tank	WL01A	All Wells	8
13	Inorganics, SOCs, VOCs	county building heating oil tank	WL01A	All Wells	8
14	Inorganics, SOCs, VOCs	Gasoline Station/Service Center	WL004	All Wells	8
15	Inorganics, Microbial, SOCs, VOCs	Wastewater Pump Station	WL004	All Wells	7
16	Inorganics, SOCs, VOCs	Gasoline Station/Service Center	WL01A	All Wells	8
17	Inorganics, SOCs, VOCs	Gasoline Station/Service Center	WL01A	All Wells	8
18	Inorganics, Microbial, SOCs, VOCs	Funeral Home/Mortuary	WL01A	All Wells	7
19	VOCs	Dry Cleaning Establishment	WL01A	All Wells	8
20	Inorganics, SOCs, VOCs	Paint Shop	WL01A	All Wells	8
21	Inorganics, SOCs, VOCs	Gasoline Station/Service Center	WL004	All Wells	8
22	Inorganics, SOCs, VOCs	Gasoline Station/Service Center	WL004	All Wells	8
23	Inorganics, SOCs, VOCs	Caroline County Jail Closed Storage Tank Release	WL01A	All Wells	8
24	Inorganics, SOCs, VOCs	Shorties Closed Storage Tank Release	WL01A	All Wells	8

Town of Bowling Green PWSID: 6033550					
Map ID	Contaminant Type	Facility Type	Zone 1 Well	Zone 2 Well	Risk Ranking
25	Inorganics, SOCs, VOCs	Contel Central Office Closed Storage Tank Release		All Wells	7
26	Inorganics, SOCs, VOCs	Hart Emmett Residence Closed Storage Tank Release		Well 004, Well 005	6
27	Inorganics, SOCs, VOCs	Bauserman property Closed Storage Tank Release		Well 005, Well 01A	6
28	Site Specific	CAROLINE CLEANERS RCRA	WL01A	All Wells	8
29	Site Specific	RITE AID #3352 RCRA		All Wells	7
30	Microbial, nitrate/nitrite, VOCs	BOWLING GREEN WASTEWATER TREAT		All Wells	6
31	VOCs	Ceil E. Robinson Jr. tire pile		Well 004	5
32	VOCs	Mr. John Giles & Margaret tire pile		Well 004, Well 01A	6
33	Inorganics, SOCs, VOCs	Rappahannock Electric Corporation Closed Storage Tank Release		Well 004, Well 005	6
34	Inorganics, Microbial, RADs, SOCs, VOCs	ASHLAND FORD, INC. Underground Injection Well		Well 004, Well 01A	7
35	Inorganics, Microbial, RADs, SOCs, VOCs	BUD'S AUTOMOTIVE SERVICE Underground Injection Well		Well 004, Well 01A	7

Appendix F: Source Water Protection Emergency Response Plan

Source Water Protection Emergency Response Plan

August 2019

For the Town of Bowling Green PWSID 6033550

117 Butler Street PO Box 468 Bowling Green, VA 22427

EXECUTIVE SUMMARY

Developing an emergency response plan (ERP) can take a lot of time and effort. The purpose of this document is to make the job easier and help create a plan that works for your water system. This ERP is developed for emergencies specifically related to source water protection. A separate ERP pertaining to other types of emergencies may be developed or this ERP expanded. This ERP is based on the Emergency Response Planning Template for Public Drinking Water Systems developed by the Rural Community Assistance Partnership (RCAP). The original version of the template is accessible via www.rcap.org.

Since this document may contain sensitive information, make sure to keep it stored in a safe and secure location. It is recommended you have one copy stored on-site and one off-site to ensure the document is available in the event you are unable to access your offices or facilities. You should also keep up-to-date plans and schematics of your treatment facility and distribution system (storage tanks, pump stations, etc), as well as up-to-date operations manuals. These should be kept in at least two secure locations, one being with the final version of this emergency response plan.

This plan is officially in effect when reviewed, approved, and signed by the following people:

Name/Title	Signature	Date
Reese Peck, Town Manager		

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ACRONYMS/ABBREVIATIONS

Acronyms/Abbreviations	Definition
EOC	Emergency Operations Center
ERP	Emergency Response Plan
RCAP	Rural Community Assistance Partnership
VDH	Virginia Department of Health

1.0 SYSTEM INFORMATION AND CRITICAL SYSTEM COMPONENTS

Basic system information is included here to be easily accessible to authorized staff to aid emergency responders, repair crews, and news media.

1.1 TOWN OF BOWLING GREEN WELLS

System Identification Number	6033550		
System Name and Address	Town of Bowling Green The primary administrative office is located at: 117 Butler Street PO Box 468 Bowling Green, VA 22427		
Directions to the System	The Bowling Green system is located o Main Street.	ff the Bowling Green Bypass and South	
Basic Description and Location of System Facilities	The system consists of three well facilit Well 004 is near Travis Street from Eas near West Broaddus Avenue.		
Location/Town	Bowling Green, VA 22427		
Population Served and Service Connections from Division of Drinking Water	People	Connections	
Records	1,500	900	
System Owner	Town of Bowling Green		
Name, Title, and	Billy Deavers, Public Works Director	Phone: 804-633-9474	
Phone Number of Person Responsible		Cell: 434-760-0351	
for Maintaining and Implementing the Emergency Plan		Email: bdeavers@townofbowlinggreen.com	
Location of treatment and distribution schematics and operations manuals	Bowling Green WWTP		
Water System Facilities	 Permitted for 365,000 gpd 100,000-gallon elevated tank at VDOT 200,000-gallon above ground storage tank 3 booster pumps at well sites 		
Buildings	3 Well houses		
Hydrants	92		
Customer Database	Customer database in Bright software		

2.0 CHAIN OF COMMAND - COMMUNICATION TEAM

The first response step in any emergency is to inform the person at the top of this list, who is responsible for managing the emergency and making key decisions.

In the event of a spill, release, or other incident that may threaten water quality, members of the communication team who are available will coordinate to:

- · Collect information needed to investigate, analyze, and characterize the incident/event
- Provide information to the management staff, so they can decide how to respond
- Assist the management staff in handling event response and communication duties
- Coordinate fully and seamlessly with the management staff to ensure response effectiveness

During events when water quality and human health are in question, it may be necessary to issue a health advisory that gives advice or recommendations to water system customers on how to protect their health when drinking water is considered unsafe. These advisories are issued by the public spokesperson when the health risks to the consumers are sufficient, in the estimation of the water system, to warrant such advice.

Health advisories usually take the form of a drinking water warning or boil water advisory. Communication during these times is critical. Health advisories should always be well thought out and provide very clear messages.

Name and Title	Responsibilities During an Emergency	Contact Number
Billy Deavers	Spokesperson	434-760-0351
Billy Deavers	Water Operations	434-760-0351
Billy Deavers	Maintenance & Construction	434-760-0351

3.0 PUBLIC SPOKESPERSON

The public spokesperson will be responsible for speaking on behalf of the water system to local agencies, the public, and the news media. The spokesperson should work with the management staff and the team to ensure that all communication is clear, accurate, timely, and consistent. The spokesperson may authorize and/or direct others to issue news releases or other information that has been approved by the system's management staff. The spokesperson is expected to be on call immediately when an incident or event which may threaten water quality occurs. The spokesperson will perform the following tasks in the event of a spill, release, or other event that threatens water quality:

- Issue news releases, updates, and other information regarding the incident/event
- Use the news media, email, social media, and other appropriate information venues
- Ensure that news releases are sent to local health agencies and the public
- Respond to questions from the news media and others regarding the incident/event
- Appear at news conferences and interviews to explain incident response, etc.

Name & Position	Telephone	Night or Cell Phone	Email
Jason Satterwhite, Mayor	804-221-1834	804-633-6855	jasonsatterwhite@townofbowlinggreen.com

4.0 EMERGENCY NOTIFICATION

Communication with customers, the news media, and the public is a critical part of emergency response. The following tables identify appropriate emergency and agency contacts.

4.1 EMERGENCY CONTACTS

Organization or Department	Name & Position	Telephone	Capability
Local Law Enforcement	Caroline County Sheriff's Office Dispatch	804-633-5400	 Emergency Operation Center Liaison Emergency Response due to contamination
Virginia Emergency Management	VA Department of Emergency Management	804-897-6502	Emergency Response Technical Assistance
Caroline County Fire, Rescue, and Emergency Management	Charles M. Culley, Jr., Emergency Management Director, County Administrator	804-633-5380	 Emergency Response Coordination Incident Command Hazardous material response Technical assistance Emergency Operations Center (EOC) Liaison
Local Public Health Department	Caroline County Health Department	804-633-5465	Public notificationAdvisory servicesEmergency operations liaison
VDH Office of Drinking Water Emergency Hotline		1-866-531-3068	 24 hour call center to notify appropriate ODW staff of emergency
EPA Contact	Amie Howell	215-814-5722	Source Water Contacts
Interconnected Water System	None		
Neighboring Water System (not connected)	All American Water	540-371-6577	Increase supplies as neededMutual Aid Agreements exist with All American Water

Organization or Department	Name & Position	Telephone	Capability
			540-371-6577
Testing Laboratory	VA State Consolidated Lab Mid Atlantic Laboratories, Port Royal	Emergency Pager 804-418-9923 804-742-5577	Provide kits and containersPerform analysisTechnical Assistance
Virginia Department of Transportation	Fredericksburg District	Normal Bus. Hours: 540-899-4288 Emergency: 800-367-7623	Emergency Roadway Assistance
Southeastern RCAP Contact		540-345-1184	Technical AssistanceProject Funding
Virginia Rural Water Association Contact	Scott McNally	540-261-7178 office 908-642-1579 cell smcnally@vrwa.org	 Source Water Protection Specialist

4.2 PRIORITY OR SENSITIVE CUSTOMERS

Priority customers include entities that represent the largest usage customers. Sensitive customers represent vulnerable populations including hospitals, nursing homes, schools, etc.

Customer	Contact Person	Telephone	System
none			

4.3 STATE, FEDERAL, LABORATORY CONTACTS

Organization or Department	Name & Position	Telephone	Night or Cell Phone	Email
Virginia Department of General Services Emergency Management	Brandon DeGraaf	804-225-8136		Brandon.DeGraaf@dgs.virginia.gov

Town of Bowling Green Source Water Protection Emergency Response Plan 2019

Richmond ODW Field Office	Doug Meyer, PE, District Engineer	804-864-7408	doug.meyer@vdh.virginia.gov
Authorized Testing Laboratory	Mid Atlantic Laboratories, Port Royal	804-742-5577	

4.4 SERVICE, REPAIR, UTILITY CONTACTS

Organization or Department	Telephone	Agency	Contact Person
Electric Utility Co.	1-888-667-3000	Dominion Virginia Power	
Electrician	804-514-3599	White Oak Electric	Jimmy Englehart
Water Hauler	540-371-6577	All American Water	
Generator Service Repair	540-940-8158	CAT, Carter Machinery, 50 Commerce Pkwy, Fredericksburg VA 22406	
Pump Supplier	804-520-5480	Core and Main	Ken Lilly
"Call Before You Dig"	811		
Rental Equipment Supplier	540-710-1300	Sunbelt Rentals	
Chlorine/Chemical Supplier	1-800-852-6970	Dominion Chemical	
Well Drilling Co.	804-643-2725	Sydnor Hydro	Jay Royall
Pipe Supplier	804-520-5480	Core and Main	Ken Lilly

4.5 MEDIA NOTIFICATION LIST

Media contact, press releases, and social media outreach regarding emergencies should only be performed by the public spokesperson or their designee.

Organization or Department	Agency	Contact Person	Telephone
Newspaper - Local	Free Lance Star		540-374-5000
Radio	WFLS		540-370-9357
TV Station	Channel 8 Richmond	Newsroom	804-330-8814

5.0 ALTERNATIVE WATER SOURCES

These alternative water sources may be relied upon during an emergency or water shortage event.

	Organization or Department	Telephone	Availability	Is the Water Safe for Drinking?
Interconnected Water Supply System	none			
Tanker Trucks Available for Bulk Water Delivery	A N Js Plumbing and Well Pumps	540-448-0184	4,000-gallon trucks	Yes
	All American Water	540-371- 6577	4,000-gallon trucks	Yes

6.0 SOURCE WATER PROTECTION EMERGENCIES

The following table identifies emergencies that may arise specifically related to source water protection or have been experienced in the past. Specific events in the next section may identify events that result in these types of emergencies.

Type of Event	Probability	Risk	Comments
Source Water Contamination	low	high	This threat may be caused by chemical spills related to locations identified in the PSC inventory contained within the Source Water Protection Plan. All wells are dependent on the same aquifer
Power Outage	high	medium	This threat may be caused by storm damage to the electrical infrastructure, physical damage to the wellhouse components, or equipment malfunction. An extended power outage occurred in 2016 and resulted in water service interruption for 2 days, but generator and tank capacity was sufficient to maintain operation.

Type of Event	Probability	Risk	Comments
Drought	medium	low	This threat may be caused by lack of aquifer availability due to extended lack of precipitation. An extended drought occurred in 2014 but did not result in water service interruption or reduction.
Physical Damage to or Failure of Intakes and Pumps	medium	low	This threat may be caused by machine malfunction, vandalism, or vehicle collision with established intake assets.

7.0 RESPONSE ACTIONS FOR SPECIFIC EVENTS

In any event, there are a series of general steps to take:

- 1. Analyze the type and severity of the emergency;
- 2. Take immediate actions to save lives;
- 3. Take action to reduce injuries and system damage;
- 4. Make repairs based on priority demand, and
- 5. Return the system to normal operation.

The following tables identify the assessment, set forth immediate response actions, define what notifications need to be made, and describe important follow-up actions

7.1 DISTRIBUTION LINE BREAK

Assessment	Determine the service area affected.	
Immediate Actions	Deploy repair personnel and equipment.	
Notifications	 Notify water system supervisors. Contact appropriate repair personnel. The public spokesperson may issue "Boil Water", "Do not Drink", or "Do not Use" orders and Press Releases as appropriate. Contact VDH if "Boil Water", "Do not Drink", or "Do not Use" orders are issued Contact laboratory to arrange sample analyses, as required. Notify Fire & Rescue of affected areas. Notify Finance Department of the need for emergency procurement, as necessary 	
Follow-up Actions	 Distribution system flushing & disinfection, if required. The system should be repressurized slowly to avoid water hammer and the potential for damage to the lines. Distribution system sampling, if required. 	

 Once pressure has been restored and satisfactory sample results received, the public spokesperson should rescind "Boil Water", "Do not Drink", or "Do not Use" orders and issue Press Releases as appropriate.

7.2 CHLORINE TREATMENT EQUIPMENT FAILURE

Assessment	Determine whether failure results in insufficient or excessive chlorine treatment.
Immediate Actions	 Notify water system supervisors. Perform actions to estimate the contaminated or undertreated service area. Take actions to isolate portions of system containing suspect water. Deploy repair personnel & equipment. Flush distribution system as necessary. Check chlorine concentrations throughout the distribution system. Treat water as necessary.
Notifications	 Notify water system supervisors. Contact appropriate repair personnel. The public spokesperson should issue "Boil Water", "Do not Drink", or "Do not Use" orders and Press Releases as appropriate. Notify media as needed. Notify Finance Department of the need for emergency procurement, as necessary.
Follow-up Actions	 Prepare any necessary incident reports. Resume Normal function. The public spokesperson should rescind "Boil Water", "Do not Drink", or "Do not Use" orders and Press Releases as appropriate. Notify media as needed. See the section Addressing Hazards and Returning to Normal Operation.

7.3 TREATMENT EQUIPMENT

Assessment	Determine whether failure results in insufficient or excessive treatment.
Immediate Actions	 Notify water system supervisors. Perform actions to estimate the contaminated or undertreated service area. Take actions to isolate portions of system containing suspect water. Deploy repair personnel. Treat water as necessary.
Notifications	 Contact appropriate repair personnel. The public spokesperson should issue "Boil Water", "Do not Drink", or "Do not Use" orders and Press Releases as appropriate. Notify media as needed.
Follow-up Actions	 Prepare any necessary incident reports. Resume Normal function. See the section Addressing Hazards and Returning to Normal Operation.

7.4 SOURCE PUMP FAILURE

Assessment	Determine the service area affected and likely outage time.
Immediate Actions	 Notify water system supervisors. Deploy repair personnel. IF an extended outage is anticipated, THEN alternative arrangements for water provision may be initiated. Determine the # of days of stored water available.
Notifications	 Contact appropriate repair personnel. The public spokesperson should issue "Boil Water", "Do not Drink", or "Do not Use" orders and Press Releases as appropriate. Notify media as needed. Contact VDH if "Boil Water", "Do not Drink", or "Do not Use" orders are issued Notify Fire & Rescue of affected areas. Notify Finance Department of the need for emergency procurement, as necessary.
Follow-up Actions	 The system should be repressurized slowly to avoid water hammer and the potential for damage to the lines. Prepare any necessary incident reports. Resume Normal function. See the section Addressing Hazards and Returning to Normal Operation.

7.5 MICROBIAL (COLIFORM, E. COLI) CONTAMINATION

Assessment	Collect water samples according to procedure.
Immediate Actions	 Notify water system supervisors. Perform actions to estimate the contaminated service area. Take actions to isolate portions of system containing suspect water. Treat water as necessary.
Notifications	 The public spokesperson should issue "Boil Water", "Do not Drink", or "Do not Use" orders and Press Releases as appropriate. Notify law enforcement, health department, VDEP, emergency management services, and media as needed. Contact VDH if "Boil Water", "Do not Drink", or "Do not Use" orders are issued Notify Fire & Rescue of affected areas.
Follow-up Actions	 Verify that water is safe. Prepare any necessary incident reports. Resume Normal function. See the section Addressing Hazards and Returning to Normal Operation. Once satisfactory sample results are received, the public spokesperson should rescind "Boil Water", "Do not Drink", or "Do not Use" orders and issue Press Releases as appropriate.

7.6 CHEMICAL CONTAMINATION/BACKFLOW EVENT

Assessment	Determine if threat is credible, if outage an outage is warranted, and likely length of outage.
Immediate Actions	 Notify water system supervisors and necessary emergency personnel. Define the investigation site. IF an extended outage is anticipated, THEN alternative arrangements for water provision may be initiated. Conduct preliminary assessment of potential site hazards. Search for physical evidence (discarded containers, etc.). Look for environmental indicators (dead animals or fish, dead vegetation, unusual odors or residues). Perform rapid field testing of the water. Collect water samples after coordinating with local testing facility for appropriate procedures. Perform actions to estimate the contaminated area and predict movement of contamination. Take actions to isolate portions of system containing suspect water. Flush/dump contaminated water.
Notifications	 The public spokesperson should issue "Boil Water", "Do not Drink", or "Do not Use" orders and Press Releases as appropriate. Notify law enforcement, health department, VDEP, emergency management services, and media as needed. Notify Fire & Rescue of affected areas.
Follow-up Actions	 File any police or incident reports and retain copies. Complete the Spill or Release Report Form in Appendix A. Verify that water is safe. Return system to normal service. The public spokesperson should rescind "Boil Water", "Do not Drink", or "Do not Use" orders and Press Releases as appropriate. See the section Addressing Hazards and Returning to Normal Operation.

7.7 HAZARDOUS MATERIAL SPILL NEAR SOURCES OR SYSTEM

Assessment	Determine if the threat has the potential to affect the water supply, whether an outage is warranted, and likely length of outage.	
Immediate Actions	 Define the investigation site. Conduct preliminary assessment of potential site hazards. Search for physical evidence (discarded containers, etc.). Look for environmental indicators (dead animals or fish, dead vegetation, unusual odors or residues). Perform rapid field testing of the water. Collect water samples after coordinating with local testing facility for appropriate procedures. Perform actions to estimate the contaminated area and predict movement of contamination. Take actions to isolate portions of system containing suspect water. 	

	 IF an extended outage is anticipated, THEN alternative arrangements for water provision may be initiated.
Notifications	 Notify water system supervisors and necessary emergency personnel. Notify law enforcement, health department, VDEP, emergency management services, and media as needed. The public spokesperson should issue "Boil Water", "Do not Drink", or "Do not Use" orders and Press Releases as appropriate.
Follow-up Actions	 File any police or incident reports and retain copies. Complete the Spill or Release Report Form in Appendix A. Verify that water is safe. Notify public that water is safe. Return system to normal service. The public spokesperson should rescind "Boil Water", "Do not Drink", or "Do not Use" orders and Press Releases as appropriate. Notify media as needed. See the section Addressing Hazards and Returning to Normal Operation.

7.8 VANDALISM OR TERRORIST ATTACK

Assessment	The person who first notices the situation should determine whether police, fire, or emergency medical services are immediately necessary.
Immediate Actions	 Determine whether utility is still at risk. When safe to do so, determine and document the extent of damage. If necessary, isolate and shut down damaged facilities and determine alternative water source supply.
Notifications	 Notify water system supervisors. Notify repair services. The public spokesperson should issue "Boil Water", "Do not Drink", or "Do not Use" orders and Press Releases as appropriate. Notify law enforcement, health department, VDEP, emergency management services, and media as needed. Notify Fire & Rescue of affected areas
Follow-up Actions	 File any police or incident reports and retain copies. Return system to normal service. The public spokesperson should rescind "Boil Water", "Do not Drink", or "Do not Use" orders and Press Releases as appropriate. See the section Addressing Hazards and Returning to Normal Operation.

7.9 REDUCTION OR LOSS OF WATER IN THE WELL

Assessment	Determine the source of the loss, rate of loss, and current tank levels.	
Immediate Actions	If there have been lines with no water or negative pressures, a precautionary boil order should be issued by the utility until line tests on two consecutive days show the lines to be safe. Chlorine residuals should be increased temporarily.	
Notifications	Communicate water supply interruption to supervisors.	

	 The public spokesperson should issue "Boil Water", "Do not Drink", "Do not Use" or water restriction notices and Press Releases as appropriate. Notify media as needed.
Follow-up Actions	 The system should be repressurized slowly to avoid water hammer and the potential for damage to the lines. Air should be bled from lines as they refill since entrapped air can impede flows and may cause line damage. Prepare any necessary incident reports. Resume Normal function. See the section Addressing Hazards and Returning to Normal Operation.

7.10 DROUGHT

Assessment	 Determine the level of drought stage declared by the Commonwealth of Virginia and/or County. Determine the reduction in water usage necessary to meet the immediate needs of customers.
Immediate Actions	 Water restrictions may include: Disallowing all landscape irrigation; Disallowing potable water use for construction purposes such as dust control, compaction, or trench jetting. Large industrial users, for example canneries and other food manufacturers, may be required to reduce or cease all water use. In addition to these incremental stages, the Utility should prepare for a catastrophic interruption of water supplies Utilize alternative water supply options as necessary.
Notifications	The public spokesperson should issue water restriction notices and Press Releases as appropriate.
Follow-up Actions	 Prepare any necessary incident reports. Resume Normal function. See the section Addressing Hazards and Returning to Normal Operation.

7.11 FLOOD

Assessment	 Use site maps or other available information to assess location of all facilities for location in flood plain. Conduct site assessment from nearest safe location. Based on peak flood stage, predict and build inventory of equipment likely to be most affected. List equipment needed to restore water service when flood waters recede.
Immediate Actions	 Assemble essential personnel and designate duties. Elevate in-place or remove water-sensitive equipment within structures to prevent flood damage. Anchor fuel tanks. Elevate electrical system components. Take appropriate flood-proofing steps (sandbags or other). Install sewer backflow valves.

	 Flood-proof or elevate heating, cooling, and ventilating equipment. Assemble and stage mobile stand-by generators and auxiliary water pumps. Ensure that distribution system remains pressurized in flooded areas.
Notifications	 Notify neighboring utilities or other sources of emergency response support if manpower or equipment will be needed. The public spokesperson should notify customers, media, and state and local authorities that service may be disrupted and/or that demand reductions may be necessary. The public spokesperson should issue "Boil Water", "Do not Drink", or "Do not Use" orders and Press Releases as appropriate.
Follow-up Actions	 Take pictures of the damage. Check insurance policy for procedures to recover losses, including the National Flood Insurance Program. Inspect, clean, rebuild, replace all affected equipment as necessary Prepare any necessary incident reports. Resume normal function. See the section Addressing Hazards and Returning to Normal Operation.

7.12 POWER OUTAGE

Bowling Green may have developed a separate Emergency Management Plan for Extended Power Outages for outages anticipated to last 24 hours or longer. In the event of a power outage, refer to the previously developed plan.

developed plan.	
Assessment	 Backup generation is available. Assess the ability to supply fuel for extended periods. Estimate potable water requirements under the emergency condition and determine if the utility can still meet requirements.
Immediate Actions	 Turn off unnecessary electrical equipment. Retrieve portable generator from Cedar Lane storage facility at Well 4. Start backup generator as necessary for key components. IF not able to meet community requirements for water THEN arrange for water to be supplied by another source.
Notifications	 Notify water system supervisors. Notify generator repair services as needed. Notify generator rental services as needed. Notify fuel supplier as needed. Call local electric supply company to request information on the estimated down time. Notify users and request water conservation. Notify priority customers. Notify users of interruption of service if backup pump(s) is/are not capable of maintaining supply. Issue "Boil Water", "Do not Drink", or "Do not Use" orders and Press Releases as appropriate.
Follow-up Actions	 Once power is restored, confirm proper water system operation. Refuel generators as necessary. Create, file, and copy incident report. See the section Addressing Hazards and Returning to Normal Operation

7.13 ELECTRONIC EQUIPMENT FAILURE

Assessment	Determine the effect of malfunction on the system.	
Immediate Actions	 Repair or replace equipment as necessary. If system pressure is lost, refer to procedures in Section 7.1 	
Notifications	Immediately notify water system supervisor and appropriate repair personnel.	
Follow-up Actions	See the section Addressing Hazards and Returning to Normal Operation	

7.14 CYBER ATTACK

Assessment	Determine if the electronic system needs to be isolated from process operations and taken completely off line.	
Immediate Actions	 Restrict physical access to the area. Physically unplug any phone lines that could dial in to the attacked computer. Unplug the computer from the network. Photograph the scene, including connections to any peripherals. IF the computer is off, DO NOT turn it on (preferred method is to jumper system disk drive(s) as read only, and perform a post-mortem on a separate computer using suitable tools.) IF the computer is on, DO NOT reboot it. Avoid accessing any files on the compromised machine. Increase sampling at or near system intakes – consider whether to isolate. 	
Notifications	Contact computer repair specialists, internet service provider, computer equipment vendor, law enforcement	
Follow-up Actions	See the section Addressing Hazards and Returning to Normal Operation	

8.0 ADDRESSING HAZARDS AND RETURNING TO NORMAL OPERATION

Upon initial notification of the incident/event, system managers and staff will collect information and verify the need for further investigation. Only properly trained personnel will perform onsite investigations if permitted by emergency responders. If further investigation is warranted, and the initial facts support it, the water system spokesperson will issue a public communication statement consistent with the threat level. In addition, water system personnel and partners will be dispatched to conduct reconnaissance, a threat assessment, and a threat characterization. Specific actions and responsible parties are outlined below.

After the threat level is reduced and operations return to normal, the water system staff, as well as the communication and source water protection teams and their partners, will conduct a post-event review and assessment. The purpose of the review is to examine the response to the incident, relevant communication activities, and overall outcomes. Plans and procedures may be updated, altered, or adapted based on lessons learned through this process.

Town of Bowling Green Source Water Protection Emergency Response Plan 2019

Action	Activity Type	Responsible Party
Analyze the type and severity of the emergency	Assessment	Director
Assess system needs	Assessment	Director
If a hazardous material is involved, document its characteristics, amount, release rate, physical state, location, and threat to water resource	Assessment	Director
Activate incident management teams, emergency responders, internally responsible staff, and begin evacuations, if necessary	Response	Director
Stop intake or isolate a portion of the distribution system, if necessary	Response	Director
Issue appropriate advisories	Response	Public Spokesperson
Contact impacted system users and neighboring water providers.	Response	Public Spokesperson
Contact the media, when appropriate	Response	Public Spokesperson
Coordinate short-term and long-term water provision and activate mutual aid and assistance agreements	Response	Director
Contact appropriate contractors or repair services	Recovery	Director
Conduct mitigation and restoration measures	Recovery	Director
Communicate with and inform impacted users and partnering organizations of restoration	Recovery	Director
Update training and planning documents to reflect incidents and lessons learned	Recovery	Director

ERP APPENDIX A: SPILL OR RELEASE REPORT FORM

	BASIC	DATA	Page 1 of 4	
Name, Title, and Organization of Person Submitting Written Report:		Telephone Number (provide	e area code):	
		Email Address:		
Release Location: Provide address, if known	Release Location: Provide address, if known, and give directions to the spill location. Include nearest highway, town, road intersection, etc.			
RELEASE DATA	RELEASE DATA: Provide the best available information regarding the release.			
Date and Time of Release:				
Date and Time of Discovery:				
Duration of Release (days, hours, minutes):				
Cause of Incident:				
Material(s) Released:				
Container Type:	Rai	Iroad Car	Ship	
	Pip	eline	Truck	

Town of Bowling Green Source Water Protection Emergency Response Plan 2019

	Tank Capacity:	Other:		
INITIAL ACTION Page 2 of 4				
Immediate Actions Taken:	Containment	Monitoring		
	Dilution	Other:		
	Evacuation			
	Hazard Removal			
	System Shutdown			
	Distribution Isolation			

	RELEASE IMPACT	Page 3 of 4
Incident Description:		
damage. Identify persor	ype of equipment involved in the release, how volume loss was determined, en n and agency that discovered the incident, person and agency that initially res performed clean-up activities.	
Release Reach:	Surface Waters (name Stream, river, or lake):	
	Drain Connected to Sanitary Sewer (nearest street or intersection):	
	Drain Connected to Storm Sewer (nearest street or intersection):	
	Groundwater (indicate if known drinking water source):	
	Soils	
	Contained on Impervious Surface	
	Other (describe):	

Town of Bowling Green Source Water Protection Emergency Response Plan 2019

DAMAGES	Page 4 of 4
Number of Onsite Injuries:	
Number of Hospitalizations:	
Describe Property or Infrastructure Damage:	
NOTIFICATIONS	
Describe Entities Notified and Advisories Issued:	

Record additional comments or descriptions, if necessary:

ERP APPENDIX B: EXTENDED POWER OUTAGE INCIDENT LOG

Contacted Virginia Department of Health to apprise of situation YES () NO () DateTime Implemented or advised to use EMP for Extended Power Outages YES () NO () DateTime Contacted Local Emergency Coordinator to apprise of situation YES () NO () DateTime Issued Precautionary Boil Water Notice YES () NO () DateTime Contacted Media to Inform of Boil Water Notice YES () NO () DateTime Implemented Emergency Disinfection Procedures YES () NO () DateTime Collected First Bacteriological Sample from the Distribution System YES () NO () DateTime	Waterworks Na	ame	
DateTime Event OccurredAM PM Nature of Event Ice Storm Tornado Hurricane High Winds Blackout Thunderstorm Flooding Vandalism Terrorism Other Services Disrupted Main Power Raw Water Service Finished Water Service Treatment Other Action Taken: • Contacted Virginia Department of Health to apprise of situation YES () NO () Date Time • Implemented or advised to use EMP for Extended Power Outages YES () NO () Date Time • Contacted Local Emergency Coordinator to apprise of situation YES () NO () Date Time • Issued Precautionary Boil Water Notice YES () NO () Date Time • Contacted Media to Inform of Boil Water Notice YES () NO () Date Time • Implemented Emergency Disinfection Procedures YES () NO () Date Time • Collected First Bacteriological Sample from the Distribution System YES () NO () Date Time	Name of Event		
Thunderstorm Flooding Vandalism Terrorism Other Services Disrupted Main Power Raw Water Service Finished Water Service Treatment Other Action Taken: Contacted Virginia Department of Health to apprise of situation YES () NO () DateTime Implemented or advised to use EMP for Extended Power Outages YES () NO () DateTime Contacted Local Emergency Coordinator to apprise of situation YES () NO () DateTime Issued Precautionary Boil Water Notice YES () NO () DateTime Contacted Media to Inform of Boil Water Notice YES () NO () DateTime Collected First Bacteriological Sample from the Distribution System YES () NO () DateTime Collected First Bacteriological Sample from the Distribution System YES () NO ()			
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Contacted Virginia Department of Health to apprise of situation YES () NO () DateTime Implemented or advised to use EMP for Extended Power Outages YES () NO () DateTime Contacted Local Emergency Coordinator to apprise of situation YES () NO () DateTime Issued Precautionary Boil Water Notice YES () NO () DateTime Contacted Media to Inform of Boil Water Notice YES () NO () DateTime Implemented Emergency Disinfection Procedures YES () NO () DateTime Collected First Bacteriological Sample from the Distribution System YES () NO () DateTime	Services Disrup		eatment
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 Contacted Local Emergency Coordinator to apprise of situation YES () NO () DateTime		- "	NO ()
 Issued Precautionary Boil Water Notice YES () NO () DateTime	• (Contacted Local Emergency Coordinator to apprise of situation YES () No	O()
 Contacted Media to Inform of Boil Water Notice YES () NO () DateTime			
 Implemented Emergency Disinfection Procedures YES () NO () DateTime	С	DateTime	
 Implemented Emergency Disinfection Procedures YES () NO () DateTime		· · · · · · · · · · · · · · · · · · ·	
DateTime Collected First Bacteriological Sample from the Distribution System YES () NO () DateTime			
DateTime			
	• (Collected First Bacteriological Sample from the Distribution System YES () ${ t N}$	10 ()
	С	DateTime	
 Collected Second Bacteriological Sample from the Distribution System YES () NO () 	• (Collected Second Bacteriological Sample from the Distribution System YES	() NO()
DateTime			
Obtained approval to rescind Boil Water Notice YES () NO () Date Time			

ERP APPENDIX C: STANDARD DISINFECTION PROCEDURES

1. **Well(s)** – In the event wells are contaminated they may be disinfected by using sodium hypochlorite deposited directly into the well.

Calculate amount of sodium hypochlorite needed by using the following formulas: Lbs $\underline{Cl2}$ = Vol of water in well (million gallons) X dose desired (mg/L) X 8.34 lbs/gal

Vol (gal) = ({[Well Dia (in) /
$$12$$
]² / 4} X pi) X depth (ft) X 7.48 gal/ft³

Vol (million gal) = Vol (gal) / 1,000,000

Well dose should be calculated on an individual basis depending on the nature of the contamination. If uncertain, use a 200 mg/L dose.

Conversions	8 oz = 1 cup	16 oz = 1 pint		
24 oz = 3 cups	32 oz = 1 quart	48 oz = 1¹/₂ quarts		
64 oz = 2 quarts	80 oz = 2¹/₂ quarts	96 oz = 3 quarts		
1 gal = 4 quarts				

 Finished Water Storage Structures – Procedures are stated in 12 VAC 5-590-1080 of Article 5 of the Virginia Waterworks Regulations. Other procedures that could be used are given in the ANSI/AWWA Standard C652.

Storage or hydropneumatic tanks should be dosed according to the extent of suspected disinfection in the tanks and/or system. If the system experienced pressures less than 20 psi but no zero or negative pressures, use a 2.0 mg/L dose. If the system experienced zero or negative pressures, use a 5.0 mg/L dose. If active contamination is suspected or if uncertain, use a 10 mg/L dose. Higher doses may need to be considered on an individual basis.

Calculated amount of sodium hypochlorite needed by using the following formulas:

3. Virginia Waterworks Regulations: Refer to Section 12 VAC 5-590-800. Disinfection.

Appendix G: Potential Conduits of Contamination Inventory

This appendix is omitted from public versions of the document for security purposes.

Private well location GIS data does not exist, though there are some residents who rely on private wells. These wells, if not properly maintained, allow PSCs to infiltrate the aquifer. The potential threat of wells to the water source may extend beyond the Zone 1 and 2 SWPAs.

Appendix H: Virginia Source Water Assessment Program Land Use Risk to Source Water

Virginia Source Water Assessment Program Land Use Risk to Source Water

Table 1 LAND USE ACTIVITY INVENTORY (Community and Nontransient Noncommunity Waterworks)

(Community and Nontransient N	oncommunity Water	works)		
CLASSIFICATION	CONTAMINANT	SURFACE WATER RISK	GROUND WATER RISK	NAICS CODE
Residential/Commercial				
Fuel Storage Systems [ground water only]	V	Χ	medium	814110
On-site sewage system [ground water only]	M, N	Χ	medium	814110
5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5	,			• • • • • • • • • • • • • • • • • • • •
Agriculture				
Chemical/fuel storage areas	V, S, N	low	medium	111, 112
Crop and fodder production	S, N	low	medium	111 [°]
Specialty crop production/nursery (e.g. horticulture, citrus, nuts, fruits)	S, N	low	medium	112
Livestock/poultry	•			112
Pasture (grazing)	M, N	medium	low	112
Intensive animal feeding operations	•			112
Confined animal feeding operations (permitted)	M, N	high	high	112
Confined animal feeding operations (non-permitted)	M, N	high	high	112
Aquaculture	M, N	low	medium	11251
Animal burial areas	M, N	low	medium	112
Manure holding or spreading	M, N	medium	medium	112
Other	•			
Industrial/Commercial [Dry and Discharging]				
Above ground storage tank (> 660 gallons) excluding potable water	V, S, N	medium	medium	
and petroleum				
Animal Slaughtering or Processing	M, N	low	medium	311
Asphalt Plants	V, S, N	low	medium	32412
Car Wash	V	low	low	811192
Cemetery [ground water only]	M, N,S	X	low	812220
Coal Gasification Facility	V	low	medium	324199
Dry Cleaning Establishment	V	low	medium	812320
Electrical and Electronic Product Manufacturing	I, V	low	medium	335310, 334410
Electroplating/Metal Finishing	I, V	low	medium	332813
Fertilizer/Manufacturer/Distributor/Storage	A, S	medium	medium	325, 422
Fire Training Facilities	V	low	medium	922160
Food Processing	M, N	low	low	311
Funeral Home/Mortuary	N, V	low	low	812210
Furniture/Boat Refinish (Boat Yards)	V, S, N	medium	medium	811420, 336612
Gasoline Station/Service Center	V, S, N	low	medium	447100
Golf Course	B, S	low	medium	713910
Hazardous Waste Recovery Facility	V, S, R, M	high	high	562211
Hazardous Waste Transfer, Storage or Disposal	V, S, R, M	high	high	562
Hospital	V, S, R, M	low	medium	622110
Laboratories	V, S, R, M	low	medium	541380, 621510
Machine Shops	V	low	medium	332710
Marina [Surface Only]	M, V, S	medium	X	713930
Military Base	V, S, R, M	high	high	928110
Oil & Gas Production (Refining)/Storage/Pipelines	V	medium	medium	324110, 422710,
D : (0)				486910
Paint Shop	V	low	medium	811121
Pesticide/Herbicide Manufacturer/Distributor/Storage	S	medium	medium	325320,
Photo Processor/Printer		laur		422690,422910,
Photo Processor/Printer	ı	low	medium	812290
Pipeline / Powerline Right of Way Plastic Manufacturer	S V, S	low	low	486910, 221120
		low	medium	326100, 325211
Power Generation Station	S V. I	medium	low	221110
Scrap and Junk Yards Solid Waste Collection/Transfer Site	v, i V, S, M, I	low low	medium low	421930 562111
Superfund Site	V, S, M, I V, S, R, M, I	high	high	562211
Underground Injection Well [groundwater only]	V, S, R, M, I	X	high	562
Underground Storage Tanks [excluding potable water][groundwater only]	V, 3, 1X, 1VI, 1	X	medium	302
Underground Storage Tanks [excluding potable water][groundwater]	V	X	high	
Wood Preservative Manufacturer/Wood Preserver	Š	low	medium	321114
Other	J	10 VV	modium	02111 1
Other				
Wastewater Facilities				
Combined Sewer Overflow/Discharge	M, N, V, S	high	low	22132
Septage Lagoon	M, N	medium	medium	22132
·				— · - =

Table 1 LAND USE ACTIVITY INVENTORY Continued (Community and Nontransient Noncommunity Waterworks)

CLASSIFICATION	CONTAMINANT	SURFACE WATER RISK	GROUND WATER RISK	NAICS CODE
Sewer Lines (Surface-crossing and adjacent lines only) [surface water only]	M, N	High	X	22132
Storm Sewer Discharges and Stormwater infiltration ponds	V, N, S	Medium	low	22132
Untreated Piped Discharge [straight pipe]	M, N	High	low	22132
Wastewater Pump Station	M, N, V	High	low	22132
Wastewater Treatment Facility [point source discharge]	M, N, V	Medium	low	22132
Wastewater Treatment Nondischarging lagoon/mass drainfield	M, N, V	Low	medium	22132
Land Disposal				
Biosolids	M, N, I	low	low	111, 112
Industrial Sludge	M, N, I, S, V	low	low	562
Landfill (Lined)	M, N, V, S	low	medium	562212
Landfill (Unlined)	M, N, V, S	low	high	562212
Open Dump	M, N, V, S	low	High	5622
Septage	M, N	medium	Medium	111, 112, 562
Tire Pile	V	high	High	5622
Wastewater	M, N	medium	Medium	22132
Other				
Resource Extraction			_	
Coal	V	low	Low	21211
Oil + Gas	V	medium	Medium	211
Sand, Gravel, Limestone	V	low	Low	2123
Other				
Transportation				
Airport	V	low	Medium	422720
Parking Lots	V	low	Low	814
Primary Roadways	V, S, N, M, R	medium	Low	48
Railroad Tracks and Yards	V, S, N, M, R	medium	Low	482110
Salt Storage Sites Truck Terminals	I V C N M D	low medium	Low Medium	48 484
Truck Terminals	V, S, N, M, R	meaium	wealum	464
Special Cases (specifically identified as a significant source of contaminants)				
Barge and Vessel Traffic for surface sources		high	Χ	483211
Caves/Sinkholes for surface sources			X	
			-	

M = microbiological N = nitrate/nitrite

V = volatile organic chemicals S = synthetic organic chemicals I = inorganic chemicals R = radiological contaminants

(NOT all inclusive)

[&]quot;x" – does not mean no risk

Table 2 LAND USE ACTIVITY INVENTORY (Transient Noncommunity Waterworks)

CLASSIFICATION	CONTAMINANT	SURFACE WATER RISK	GROUND WATER RISK	NAICS CODE
Residential		KIOK	Talon	
On-site sewage system [ground water only]	M, N	X	medium	814110
Agriculture				
Chemical/fuel storage areas	V, S, N	low	medium	111, 112
Crop and fodder production	S, N	low	medium	111
Specialty crop production/nursery (e.g. horticulture, citrus, nuts, fruits) Livestock/poultry	S, N	low	medium	111 112
Pasture (grazing)	M, N	medium	low	112
Intensive animal feeding operations				112
Confined animal feeding operations (permitted)	M, N	high	high	112
Confined animal feeding operations (unpermitted)	M, N	high	high	112
Aquaculture	M, N	low	medium	11251
Animal burial areas	M, N	low	medium	112
Manure holding or spreading	M, N	medium	medium	112
Other				
11.41.10				
Industrial/Commercial [Dry and Discharging] Above ground storage tank (> 660 gallons) excluding potable water and petroleum	V, S, N	medium	medium	
Animal Slaughtering or Processing	O, N	low	medium	311
Fertilizer/Manufacturer/Distributor/Storage	C, S	medium	medium	325310
Hospital	V, S, R, M	low	medium	622110
Laboratories				
Marina [Surface Only]	V, S, R, M	low medium	medium	541380, 621510
	M, V, S		X	713930
Solid Waste Collection/Transfer Site	V, S, M, I	low	low	562111
Underground Injection Well [groundwater only]	V, S, R, M, I	X	high	562
Other				
Wastewater Facilities				
Combined Sewer Overflow/Discharge	M, N, V, S	high	low	22132
Septage Lagoon	M, N	medium	medium	22132
Sewer Lines (Surface-crossing and adjacent lines only) [surface water only]	M, N	high	X	22132
Storm Sewer Discharges and Stormwater infiltration ponds	V, N, S	medium	low	22132
Untreated Piped Discharge [straight pipe]	M, N	High	low	22132
Wastewater Pump Station	M. N. V	High	low	22132
Wastewater Treatment Facility [point source discharge]	M, N, V	Medium	low	22132
Wastewater Treatment Nondischarging lagoon/mass drainfield	M, N, V	Low	medium	22132
wastewater Treatment Nondischarging lagoon/mass drainneid	IVI, IN, V	LOW	medium	22132
Land Disposal				
Biosolids	M, N, I	Low	low	111, 112
Industrial Sludge	M, N, I, S, V	Low	low	562
Landfill (Lined)	M, N, V, S	Low	medium	562212
Landfill (Unlined)	M, N, V, S	Low	high	562212
Open Dump	M, N, V, S	Low	high	5622
Septage	M, N	Medium	medium	111,112 562
Wastewater	M, N	Medium	medium	22132
Other	1VI, I W	Modium	modium	££ 10£
Other				
Special Cases (specifically identified as a significant				
source of contaminants)				
Barge and Vessel Traffic for surface sources		High	X X	483211
Caves/Sinkholes for surface sources		-	Χ	

[&]quot;x" - does not mean no risk

M = microbiological N = nitrate/nitrite V = volatile organic chemicals S = synthetic organic chemicals I = inorganic chemicals R = radiological contaminants

(NOT all inclusive)

Appendix I: Virginia Department of Health Source Water Protection Report (SWAR)

This appendix is omitted from public versions of the document for security purposes.



COMMONWEALTH of VIRGINIA

DEPARTMENT OF HEALTH

M. Norman Oliver, MD, MA State Health Commissioner

OFFICE OF DRINKING WATER

Culpeper Field Office

400 S. Main Street, 2nd Floor

Culpeper, VA 22701 Phone: 540-829-7340 Fax: 540-829-7337

Processing Office:
Office of Drinking Water

East Central Support Office 109 Governor Street, UB23 Richmond, VA 23219 Phone (804) 864-7409 Fax (804) 864-7520

SUBJECT: C

Caroline County

Waterworks:

Bowling Green, Town Of

PWSID No.:

6033550

December 3, 2018

Billy Deavers Po Box 468 Bowling Green, VA 22427

Dear Mr. Deavers:

The Virginia Department of Health, Office of Drinking Water has completed a Source Water Assessment for your waterworks. Attached you will find a copy of the assessment. Please note that the susceptibility class assigned is relative and not intended to be a definitive determination.

The Virginia Department of Health is available to provide assistance to waterworks in developing a Source Water Protection Plan. Available forms of assistance include:

- Source Water Protection Plan Development & Implementation Assistance —This program
 provides assistance to develop and implement SWPPs, at no cost to the waterworks, through
 engineering firms contracted by VDH. This program is available to community waterworks
 serving less than 50,000 people which process water directly from a drinking water supply
 source.
- Wellhead Protection Implementation Projects Grants This program provides grants to support
 the implementation of wellhead protection projects such as well abandonment, educational
 outreach, wellhead fencing, advancing ordinances, emergency response planning, hazardous
 waste collection, and protection area delineation. This program requires that the waterworks have
 a protection strategy in-place (i.e. a protection plan) and an active source water protection
 committee.
- <u>Direct Technical Assistance</u> VDH-ODW can offer a number of forms of technical assistance to
 waterworks to aid in the development and implementation of protection plans. This assistance
 includes SWPP templates and instructions to use the templates, GIS mapping (such as the maps
 included in your Source Water Assessment), and assistance locating source water protection
 funding opportunities.



For more information on these forms of assistance, please visit our webpage at http://www.vdh.virginia.gov/drinking-water/source-water-programs/, or contact Aaron Moses, PE, Special Projects Engineer at (804)864-7492 or aaron.moses@vdh.virginia.gov.

Because your waterworks is classified as a community waterworks, the following information from the Source Water Assessment must be included in the Consumer Confidence Report issued by the waterworks with a brief summary of the susceptibility to contamination of each drinking water source.

Sincerely,

Douglas E. Meyer, PE

District Engineer

East Central Support Office

Enclosure: Source Water Assessment Report

cc: VDH - Central Office

VIRGINIA DEPARTMENT HEALTH SOURCE WATER ASSESS. LNT REPORT

SUBJ' :
PWSIL 140.:

Caroline County 6033550

Date:

Decembere 3, 2018

Waterworks Name:

Bowling Green, Town Of

Waterworks Owner:

For each source serving the subject waterworks this report includes, maps showing the source water assessment area (divided into Zones 1 and 2 with Zone 1 having greater influence on the source), an inventory of potential sources of contamination, and a rudimentary determination of the source's relative susceptibility to contamination. Information in this report is provided to aid in efforts toward Source Water Protection.

The Source Water Assessment of the subject waterworks has yielded the following results:

Source Name	Relative Susceptibility to Contamination	Explanation
Well 1A	Low	Properly constructed ground water source located in an area that tends to inhibit contaminant migration, is protected with an appropriate aquitard, and has known potential sources of contamination in the Zone 1 and Zone 2 assessment areas
Well 4	Low	Properly constructed ground water source located in an area that tends to inhibit contaminant migration, is protected with an appropriate aquitard, and has known potential sources of contamination in the Zone 1 and Zone 2 assessment areas
Well 5	Low	Properly constructed ground water source located in an area that tends to inhibit contaminant migration, is protected with an appropriate aquitard, and has known potential sources of contamination in the Zone 2 assessment area

The susceptibility determination(s) for this waterworks' source(s) were determined using the information detailed on the following table:

Source Name	Source Water Type	Source Sensitivity Determination	Number of Potential Sources of Contamination in Zone 1	Number of Potential Sources of Contamination in Zone 2
Well 1A	Groundwater	Not Sensitive	8	11
Well 4	Groundwater	Not Sensitive	4	17
Well 5	Groundwater	Not Sensitive	0	18

The number of Potential Sources of Contamination (PSC) in Zones 1 and 2 are determined from information contained in the VDH-ODW GIS system. This information was predominantly obtained from the relevant regulating agencies and may not have been recently field verified. If your field inspections do not agree with the supplied Potential Sources of Contamination maps, please contact Aaron Moses, PE, at (804)864-7492 to provide updated information and to request an updated Source Water Assessment Report.

VIRGINIA DEPARTMENT HEALTH SOURCE WATER ASSESS VI REPORT

SUBJF PWSID

Caroline County 6033550

The criteria utilized for delineation of the Source Water Assessment Area is explained in Attachment A, Source Water Assessment Area Delineation. The criteria utilized for placement into a particular susceptibility class is explained on Attachment B, Source Water Susceptibility Determination. The susceptibility class is not intended to be a definitive determination. A list of definitions of key terms used in this report is included on Attachment C.

The following attachments are part of this report:

- Attachment A Source Water Assessment Area Delineation
 - o Zone 1 Potential Sources of Contamination Map (one for each source)
 - o Zone 2 Potential Sources of Contamination Map (one for each source)
 - o Potential Sources of Contamination Summary (one for each source)
 - o Potential Sources of Contamination Inventory (one for each source)
 - o Zone 2 Land Use Map (one for each source)
 - o Typical Contaminants Compendium
- Attachment B Source Water Susceptibility Determination
- Attachment C Definitions

Note that GIS shape files, data bibliography, and digital copies of the attached maps are available from the East Central Support Office.

SUBJET:

Caroline County 6033550

PWSIL .o.: 6

Attachment A Source Water Assessment Area Delineation

VDH uses three categories of drinking water sources to delineate an assessment area: Groundwater, Groundwater Under the Direct Influence of Surface Water (GUDI), and Surface Water. All assessment areas are segregated into Zone 1 and Zone 2 assessment areas.

The Zone 1 assessment area is a priority zone for managing potential sources of contamination where contamination is believed to pose the greatest risk. The Zone 2 assessment area is a secondary zone for managing potential sources of contamination where the time of travel for contaminants to reach the source is expected to be greater than in Zone 1.

Source Water Assessment Areas are determined as follows:

Ground Water Assessment Area

- Zone 1 = 1000-foot fixed radius surrounding source
- Zone 2 = 1-mile fixed radius surrounding source and outside of Zone 1

Surface Water Assessment Area

- Zone 1 = Watershed area within a 5-mile fixed radius of the raw water intake
- Zone 2 = Total watershed area outside of Zone 1.

Ground water Under the Direct Influence of Surface Water

With no identified flowing surface source

- Zone 1 = 1000-foot fixed radius surrounding source
- Zone 2 = 1-mile fixed radius surrounding the source and outside of Zone 1

With identified flowing surface source

- Zone 1 = 1000-foot fixed radius surrounding source
- Zone 2 = Total watershed area upgradient of the source and outside of Zone 1

Please see maps in this attachment for information specific to your sources.

SUBJF ::
PWSIL ..o.:

Caroline County 6033550

Attachment B Source Water Susceptibility Determination

The following table details the process for determining a sources susceptibility to contamination.

		PSC Present in A	ssessment Area	
Source Water Type	Sensitive Source!	For Ground Water sources does a PSC exist in the Zone 1 assessment area or does a PSC exist in Zone 2?	sources does a PSC exist in the Zone 1 assessment	Susceptibility
768370	NO →	NO →	中国特别的特别	Very Low
Groundwater →	140 /	YES →		Low
Groundwater 7	YES →	NO →		Moderate
	163 7	YES →	进作业的	High
Surface Water →	YES →	Mary Service Control of the	NO →	Moderate
Surface Water 7	163 7		YES →	High

1. A Class II B (or better) well that is constructed in accordance with the Virginia Waterworks Regulations and has a completed Uniform Water Well Completion Report (GW-2) that shows evidence in the driller's log that the well withdraws water from a confined aquifer is deemed to be non-sensitive. A confined aquifer is defined by the United States Environmental Protection Agency as "an aquifer bounded above and below by impermeable beds or by beds of distinctly lower permeability than that of the aquifer itself; an aquifer containing confined groundwater" (40 CFR 260.10). All other sources are deemed to be sensitive.

WOUNTA DEPARTMENT OF HEALTH SOURCE WATER ASSESS NT REPORT

SUBJ

Caroline County

PWSIL 10.: 6033550

Attachment C **Definitions**

Aquifer:

A water bearing geological unit that will yield water to wells or springs.

Aquitard:

An underground confining bed of earthen material that retards, but does not

prevent, the flow of water between adjacent aquifers.

Confined or Nonsensitive Aquifer:

An aquifer bounded above and below by impermeable beds or by beds of distinctly lower permeability than that of the aquifer itself; an aquifer containing

confined groundwater

Delineation:

The process of defining or mapping a boundary that approximates the areas that contribute water to a particular water source used as a public water supply. For surface waters, the land area usually consists of the watershed for a reservoir or stream. For ground water sources, the boundary typically approximates the surface area that contributes water to the aquifer.

Ground Water:

All water obtained from sources not classified as surface water (or surface water sources), or groundwater under the direct influence of surface water.

Ground Water Under the Direct Influence of Surface Water (GUDI):

Any water beneath the surface of the ground with (i) significant occurrence of insects or other macroorganisms, algae, or large-diameter pathogens such as Giardia lamblia, or Cryptosporidium. It also means (ii) significant and relatively rapid shifts in water characteristics such as turbidity, temperature, conductivity, or pH that closely correlate to climatological or surface water conditions.

Identified Flowing Surface Source:

A surface water stream that enters the ground water by flowing into a sinkhole, Leaking through the bottom of a stream bed, or by other means and which has been verified through tracer or other studies to reemerge from the ground as a spring of through a well; or which flows beneath broken rubble (which is strewn down the side of a mountain) with openings to the atmosphere and which is. collected at a 'springbox'.

Potential Sources of Contamination:

Facilities, sites, and activities that have the potential to affect the underlying ground water aquifers or nearby surface waters supplying a waterworks.

Raw Water Intake:

The suction intake that draws water from a surface water source for use as a public water supply.

Sensitivity:

The relative ease, with which a contaminant applied near the land surface, or to the subsurface, can migrate to the delineated source water area.

Source Water Assessment:

An assessment to provide information on the potential contaminant threats to the water source(s) of a waterworks and the susceptibility of those sources to contamination.

Surface Water:

All water open to the atmosphere and subject to surface runoff.

Susceptibility to Contamination:

The determined classification (or rating) of the susceptibility of a source to contamination based on its sensitivity and the presence of land use activities of concern, potential sources of contamination, or potential conduits to ground water (for ground water sources only) within the assessment area. This classification is not intended to be definitive.

Watershed:

A topographical area that is within a line drawn connecting the highest points uphill of a drinking water intake or otherwise known area of recharge from which overland flow drains to a water supply intake.

PWSID: 6033550 Source ID: WL01A Facility: WELL 1A Swap Zone 1

TINWSF_IS: 2660296.0 Jurisdiction: CAROLINE District: DISTRICT 15A

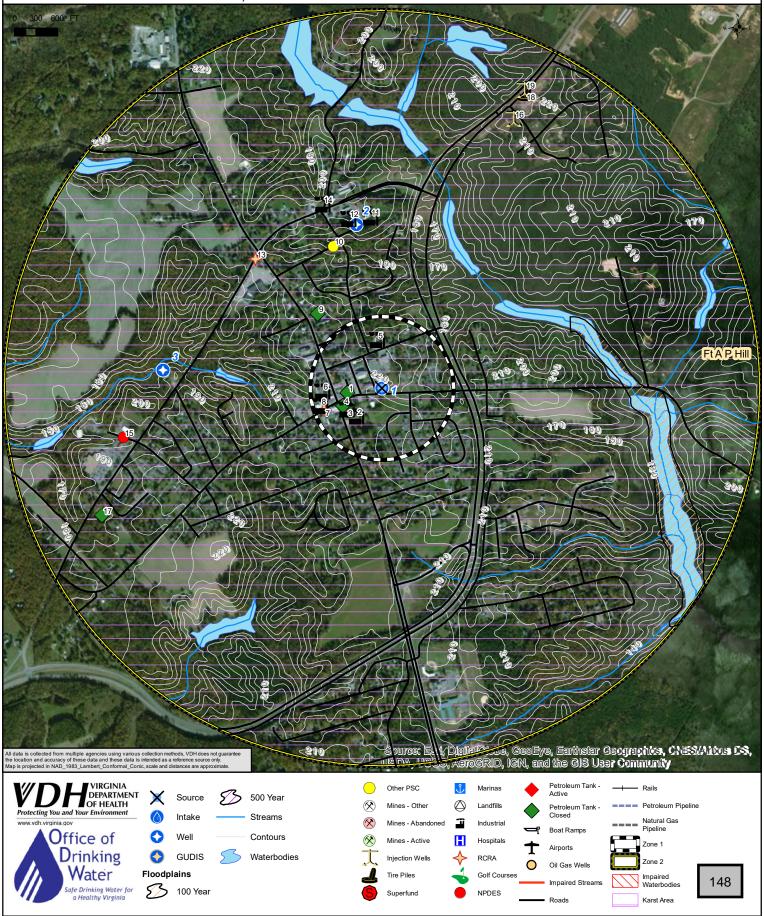
Waterworks: BOWLING GREEN, TOWN OF



PWSID: 6033550 Source ID: WL01A Facility: WELL 1A SWAP Zone 2 Date: 5/14/2018

TINWSF_IS: 2660296.0 Jurisdiction: CAROLINE District: DISTRICT 15A

Waterworks: BOWLING GREEN, TOWN OF



PWSID: 6033550 SWAP Zone 2 Land Use

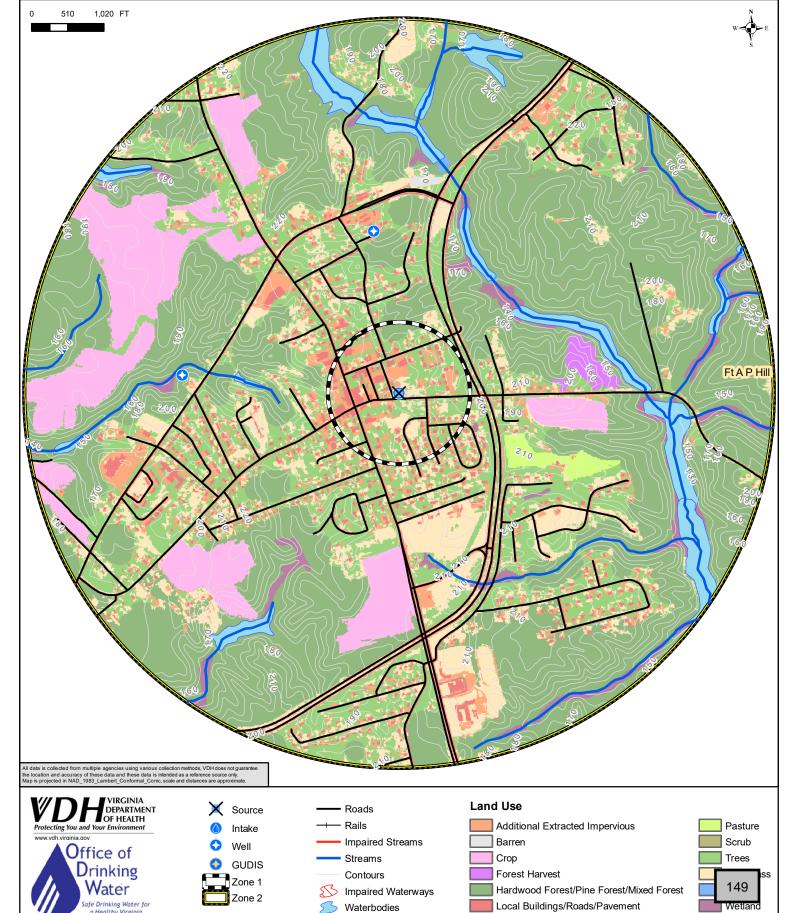
Source ID: WL01A Facility: WELL 1A

Waterworks: BOWLING GREEN, TOWN OF

TINWSF_IS: 2660296.0

Jurisdiction: CAROLINE

District: DISTRICT 15A



POTENTIAL SOURCES OF CONTAMINATION SUMMARY

County\City: CAROLINE PWSID: 6033550 Source ID: WL01A

Facility: WELL 1A Waterworks: BOWLING GREEN, TOWN OF

Facilty Type	Zone 1 Count	Zone 2 Count	Total
Closed Storage Tank Release	2	2	4
Industrial Site	5	3	8
Other PSC	0	1	1
Point Discharge	0	1	1
RCRA	1	1	2
Tire Pile	0	1	1
Underground Injection Well	0	2	2
Sum	8	11	19

6033550 WELL 1A Page 1 of 1

Potential Sources of Contamination Inventory

County/City: CAROLINE Waterworks: BOWLING GREEN, TOWN OF PWSID: 6033550 Source ID: WL01A Facility: WELL 1A

Evaluated by: Date: Reviewed by: Date:

Map ID	Distance to Source (miles)	Contaminant Type	Facility Type	Property Owner/Business Name	Mailing Address/Location
1	0.09	Inorganics, SOCs, VOCs	Closed Storage Tank Release	Caroline County Jail	107 County St Bowling Green VA 22427
2	0.10	Inorganics, Microbial, SOCs, VOCs	Industrial Site	David Storke	PO Box 920, Bowling Green VA 22514
3	0.11	Inorganics, SOCs, VOCs	Industrial Site	Majorie Gray	PO Box , Milford VA 22514
4	0.11	Inorganics, SOCs, VOCs	Closed Storage Tank Release	Shorties	101 S Main St Bowling Green VA 22427
5	0.13	Inorganics, SOCs, VOCs	Industrial Site	Edith Chenault	PO Box 169, Bowling Green VA 22427
6	0.16	Inorganics, SOCs, VOCs	Industrial Site	Russell Elliott	PO Box 473, Bowling Green VA 22427
7	0.16	Site Specific	RCRA	CAROLINE CLEANERS	109 MILFORD ST BOWLING GREEN VA 224270000
8	0.17	VOCs	Industrial Site	Russell Elliott	PO Box 473, Bowling Green VA 22427
9	0.26	Inorganics, SOCs, VOCs	Closed Storage Tank Release	Contel Central Office	Route 301 Bowling Green VA 22427
10	0.40	Inorganics, Microbial, SOCs, VOCs	Other PSC	Town of Bowling Green	PO Box 468, Bowling Green VA 22427
11	0.45	Inorganics, SOCs, VOCs	Industrial Site	Robert Ketterman	PO Box 808, Bowling Green VA 22427
12	0.46	Inorganics, SOCs, VOCs	Industrial Site	Garry Gray	PO Box 670, Bowling Green VA 22427
13	0.48	Site Specific	RCRA	RITE AID #3352	104 W. BROADDUS AVE BOWLING GREEN VA 22427
14	0.51	Inorganics, SOCs, VOCs	Industrial Site	Qmarkets Inc	6719 Janway Rd, Richmond VA 23228
15	0.70	Site Specific	Point Discharge	BOWLING GREEN WASTEWATER TREAT	219 ANDERSON AVE BOWLING GREEN VA 22427
16	0.79	Inorganics, Microbial, RADs, SOCs, VOCs	Underground Injection Well	ASHLAND FORD, INC.	ROUTE 301, NORTH BOWLING GREEN VA 22427
17	0.81	Inorganics, SOCs, VOCs	Closed Storage Tank Release	Bauserman George B and Mitchell Linda L Property	15489 Rogers Clark Blvd Bowling Green VA 22427

6033550 WELL 1A Page 1 of 2

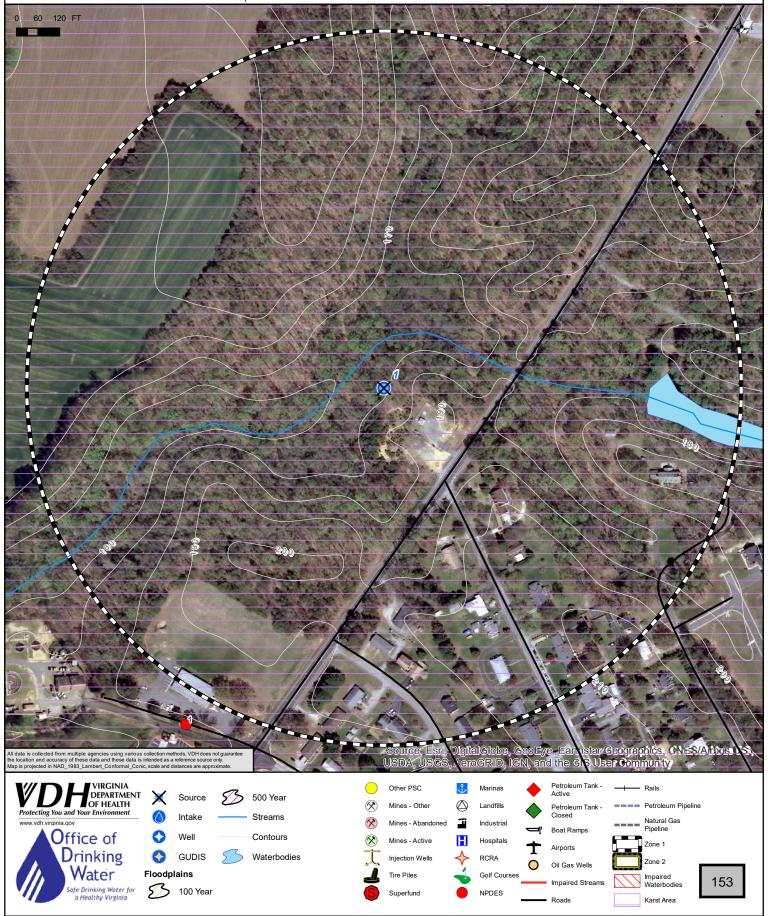
Map II	Distance to Source (miles)	Contaminant Type	Facility Type	Property Owner/Business Name	Mailing Address/Location
18	0.87	VOCs	Tire Pile	Mr. John Giles & Margaret	12 White Pines Dr. Milford VA 22514
19	0.87	Inorganics, Microbial, RADs, SOCs, VOCs	Underground Injection Well	BUD'S AUTOMOTIVE SERVICE	17440 A.P. HILL BOULEVARD BOWLING GREEN VA 22427

6033550 WELL 1A Page 2 of 2

PWSID: 6033550 Source ID: WL005 Facility: WELL 5 Swap Zone 1
Date: 5/14/2018

TINWSF_IS: 2676228.0 Jurisdiction: CAROLINE District: DISTRICT 15A

Waterworks: BOWLING GREEN, TOWN OF



PWSID: 6033550 Source ID: WL005 SWAP Zone 2
Date: 5/14/2018

TINWSF_IS: 2676228.0 Jurisdiction: CAROLINE District: DISTRICT 15A

Roads

Karst Area

Facility: WELL 5 Waterworks: BOWLING GREEN, TOWN OF

eyo, Earthstar Geographics, CNES/Alibus IS, eroGRID, IGN, and the GIS User Community VIRGINIA
DEPARTMENT
OF HEALTH
Protecting You and Your Environment Petroleum Tank Other PSC 500 Year Source Mines - Other == Petroleum Pipeline Intake Streams Natural Gas Industrial Boat Ramps Office of Well Contours Mines - Active Hospitals Airports Drinking **GUDIS** Waterbodies Injection Wells RCRA Oil Gas Wells Water Floodplains Impaired 154 Impaired Streams Safe Drinking Water for a Healthy Virginia 100 Year Superfund NPDES

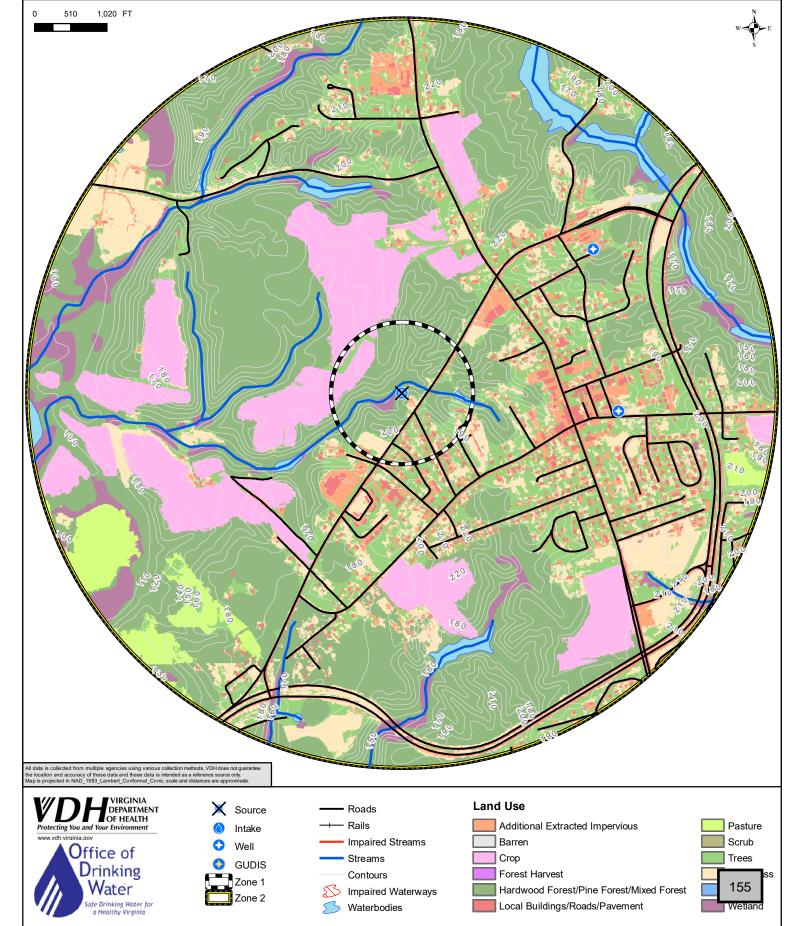
SWAP Zone 2 Land Use

PWSID: 6033550 Source ID: WL005 Facility: WELL 5

Waterworks: BOWLING GREEN, TOWN OF

TINWSF_IS: 2676228.0 Jurisdiction: CAROLINE

District: DISTRICT 15A



POTENTIAL SOURCES OF CONTAMINATION SUMMARY

County\City: CAROLINE PWSID: 6033550 Source ID: WL005

Facility: WELL 5 Waterworks: BOWLING GREEN, TOWN OF

Facilty Type	Zone 1 Count	Zone 2 Count	Total
Closed Storage Tank Release	0	6	6
Industrial Site	0	8	8
Other PSC	0	1	1
Point Discharge	0	1	1
RCRA	0	2	2
Sum	0	18	18

6033550 WELL 5 Page 1 of 1

Potential Sources of Contamination Inventory

County/City: CAROLINE Waterworks: BOWLING GREEN, TOWN OF PWSID: 6033550 Source ID: WL005 Facility: WELL 5

Evaluated by: Date: Reviewed by: Date:

Map ID	Distance to Source (miles)	Contaminant Type	Facility Type	Property Owner/Business Name	Mailing Address/Location
1	0.21	Site Specific	Point Discharge	BOWLING GREEN WASTEWATER TREAT	219 ANDERSON AVE BOWLING GREEN VA 22427
2	0.38	Site Specific	RCRA	RITE AID #3352	104 W. BROADDUS AVE BOWLING GREEN VA 22427
3	0.42	Inorganics, SOCs, VOCs	Closed Storage Tank Release	Bauserman George B and Mitchell Linda L Property	15489 Rogers Clark Blvd Bowling Green VA 22427
4	0.42	Inorganics, SOCs, VOCs	Industrial Site	Russell Elliott	PO Box 473, Bowling Green VA 22427
5	0.43	VOCs	Industrial Site	Russell Elliott	PO Box 473, Bowling Green VA 22427
6	0.43	Inorganics, SOCs, VOCs	Closed Storage Tank Release	Contel Central Office	Route 301 Bowling Green VA 22427
7	0.44	Site Specific	RCRA	CAROLINE CLEANERS	109 MILFORD ST BOWLING GREEN VA 224270000
8	0.48	Inorganics, SOCs, VOCs	Closed Storage Tank Release	Shorties	101 S Main St Bowling Green VA 22427
9	0.49	Inorganics, SOCs, VOCs	Closed Storage Tank Release	Caroline County Jail	107 County St Bowling Green VA 22427
10	0.50	Inorganics, SOCs, VOCs	Industrial Site	Majorie Gray	PO Box , Milford VA 22514
11	0.52	Inorganics, Microbial, SOCs, VOCs	Industrial Site	David Storke	PO Box 920, Bowling Green VA 22514
12	0.56	Inorganics, Microbial, SOCs, VOCs	Other PSC	Town of Bowling Green	PO Box 468, Bowling Green VA 22427
13	0.57	Inorganics, SOCs, VOCs	Industrial Site	Edith Chenault	PO Box 169, Bowling Green VA 22427
14	0.61	Inorganics, SOCs, VOCs	Industrial Site	Qmarkets Inc	6719 Janway Rd, Richmond VA 23228
15	0.63	Inorganics, SOCs, VOCs	Closed Storage Tank Release	Hart Emmett Residence	16359 Paige Rd Woodford VA 22580
16	0.63	Inorganics, SOCs, VOCs	Industrial Site	Garry Gray	PO Box 670, Bowling Green VA 22427
17	0.68	Inorganics, SOCs, VOCs	Industrial Site	Robert Ketterman	PO Box 808, Bowling Green VA 22427

6033550 WELL 5 Page 1 of 2

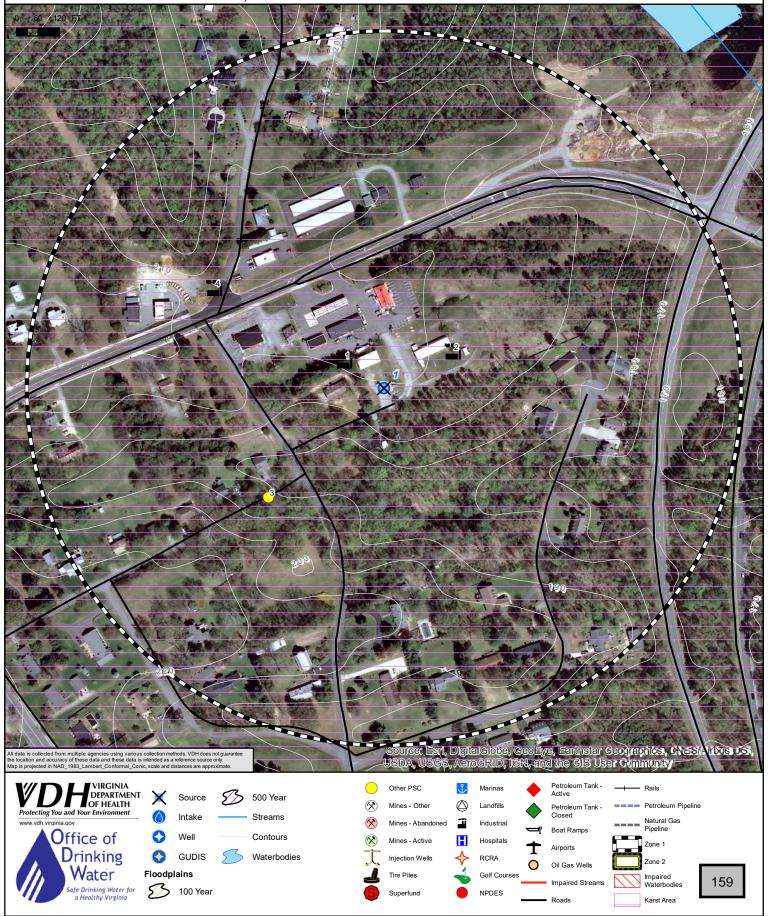
N	/lap ID	Distance to Source (miles)	Contaminant Type	Facility Type	Property Owner/Business Name	Mailing Address/Location
1	8	0.84	Inorganics, SOCs, VOCs	Closed Storage Tank Release	Rappahannock Electric Corporation	14380 Fredericksburg Tpke Bowling Green VA 22427

6033550 WELL 5 Page 2 of 2

PWSID: 6033550 Source ID: WL004 Facility: WELL 4 Swap Zone 1
Date: 5/14/2018

TINWSF_IS: 2660299.0 Jurisdiction: CAROLINE District: DISTRICT 15A

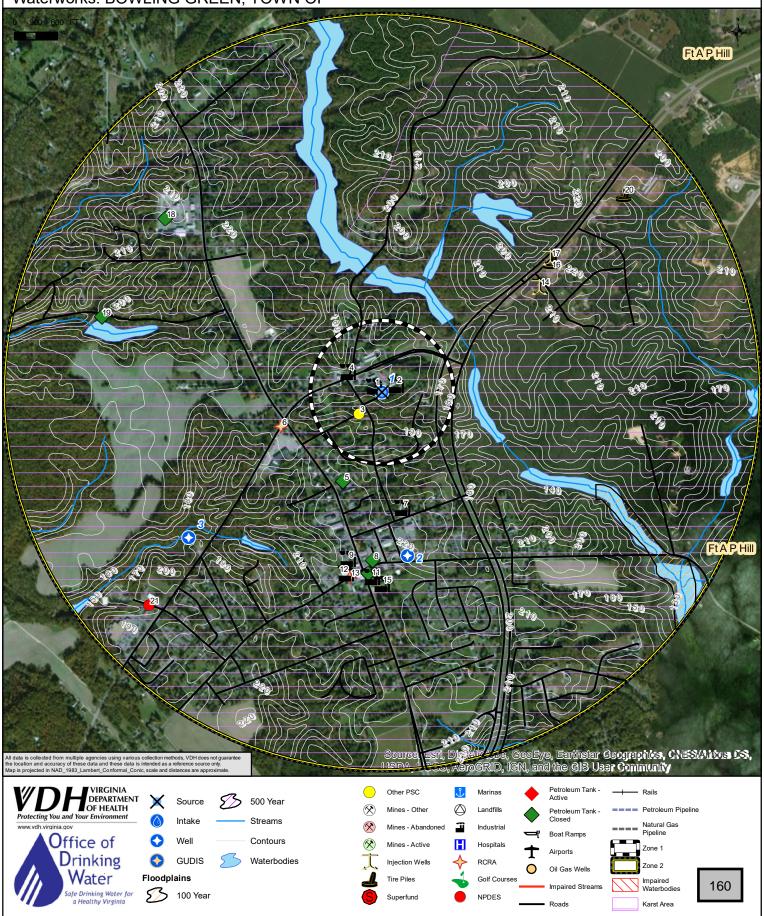
Waterworks: BOWLING GREEN, TOWN OF



PWSID: 6033550 Source ID: WL004 Facility: WELL 4 SWAP Zone 2
Date: 5/14/2018

TINWSF_IS: 2660299.0 Jurisdiction: CAROLINE District: DISTRICT 15A

Waterworks: BOWLING GREEN, TOWN OF



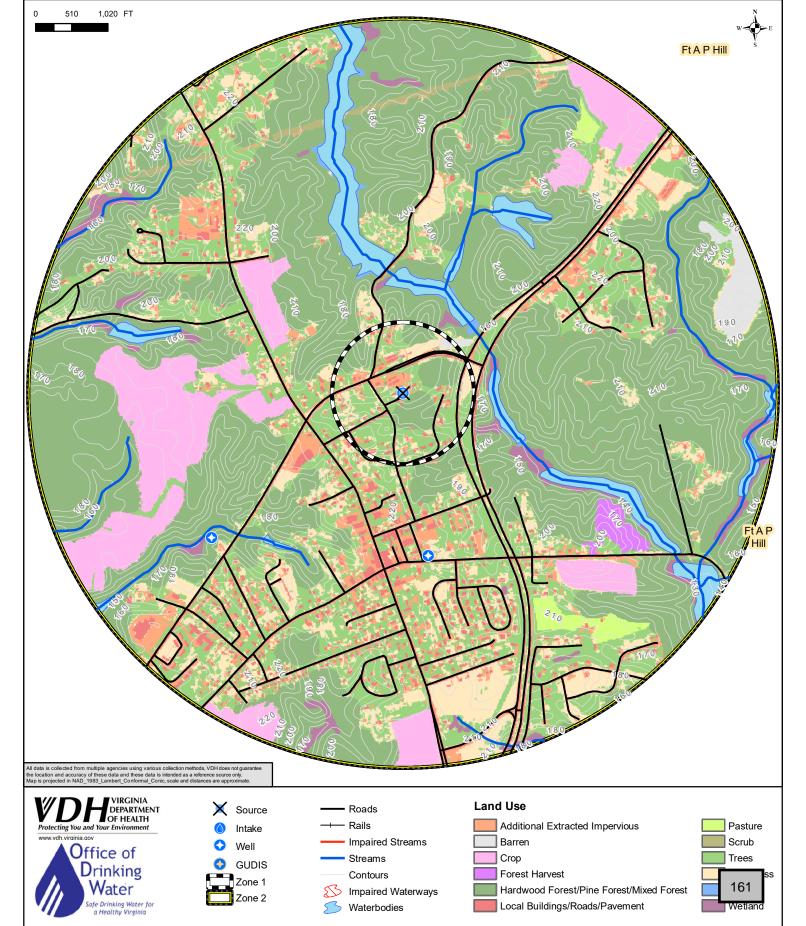
SWAP Zone 2 Land Use

PWSID: 6033550 Source ID: WL004 Facility: WELL 4

Waterworks: BOWLING GREEN, TOWN OF

TINWSF_IS: 2660299.0 Jurisdiction: CAROLINE

District: DISTRICT 15A



POTENTIAL SOURCES OF CONTAMINATION SUMMARY

County\City: CAROLINE PWSID: 6033550 Source ID: WL004

Facility: WELL 4 Waterworks: BOWLING GREEN, TOWN OF

Facilty Type	Zone 1 Count	Zone 2 Count	Total
Closed Storage Tank Release	0	5	5
Industrial Site	3	5	8
Other PSC	1	0	1
Point Discharge	0	1	1
RCRA	0	2	2
Tire Pile	0	2	2
Underground Injection Well	0	2	2
Sum	4	17	21

6033550 WELL 4 Page 1 of 1

Potential Sources of Contamination Inventory

County/City: CAROLINE Waterworks: BOWLING GREEN, TOWN OF PWSID: 6033550 Source ID: WL004 Facility: WELL 4 Evaluated by: Date: Reviewed by: Date:

Map ID	Distance to Source (miles)	Contaminant Type	Facility Type	Property Owner/Business Name	Mailing Address/Location
1	0.03	Inorganics, SOCs, VOCs	Industrial Site	Garry Gray	PO Box 670, Bowling Green VA 22427
2	0.04	Inorganics, SOCs, VOCs	Industrial Site	Robert Ketterman	PO Box 808, Bowling Green VA 22427
3	0.08	Inorganics, Microbial, SOCs, VOCs	Other PSC	Town of Bowling Green	PO Box 468, Bowling Green VA 22427
4	0.10	Inorganics, SOCs, VOCs	Industrial Site	Qmarkets Inc	6719 Janway Rd, Richmond VA 23228
5	0.26	Inorganics, SOCs, VOCs	Closed Storage Tank Release	Contel Central Office	Route 301 Bowling Green VA 22427
5	0.28	Site Specific	RCRA	RITE AID #3352	104 W. BROADDUS AVE BOWLING GREEN VA 22427
7	0.31	Inorganics, SOCs, VOCs	Industrial Site	Edith Chenault	PO Box 169, Bowling Green VA 22427
3	0.45	Inorganics, SOCs, VOCs	Closed Storage Tank Release	Caroline County Jail	107 County St Bowling Green VA 22427
)	0.45	Inorganics, SOCs, VOCs	Industrial Site	Russell Elliott	PO Box 473, Bowling Green VA 22427
10	0.48	Inorganics, SOCs, VOCs	Closed Storage Tank Release	Shorties	101 S Main St Bowling Green VA 22427
11	0.49	Inorganics, SOCs, VOCs	Industrial Site	Majorie Gray	PO Box , Milford VA 22514
12	0.49	VOCs	Industrial Site	Russell Elliott	PO Box 473, Bowling Green VA 22427
13	0.50	Site Specific	RCRA	CAROLINE CLEANERS	109 MILFORD ST BOWLING GREEN VA 224270000
14	0.50	Inorganics, Microbial, RADs, SOCs, VOCs	Underground Injection Well	ASHLAND FORD, INC.	ROUTE 301, NORTH BOWLING GREEN VA 22427
15	0.51	Inorganics, Microbial, SOCs, VOCs	Industrial Site	David Storke	PO Box 920, Bowling Green VA 22514
16	0.56	VOCs	Tire Pile	Mr. John Giles & Margaret	12 White Pines Dr. Milford VA 22514
7	0.57	Inorganics, Microbial, RADs, SOCs, VOCs	Underground Injection Well	BUD'S AUTOMOTIVE SERVICE	17440 A.P. HILL BOULEVARD BOWLING GREEN VA 22427
18	0.73	Inorganics, SOCs, VOCs	Closed Storage Tank	Rappahannock Electric	14380 Fredericksburg Tpke Bowling Green VA 22427

Map ID	Distance to Source (miles)	Contaminant Type	Facility Type	Property Owner/Business Name	Mailing Address/Location
			Release	Corporation	
19	0.77	Inorganics, SOCs, VOCs	Closed Storage Tank Release	Hart Emmett Residence	16359 Paige Rd Woodford VA 22580
20	0.82	VOCs	Tire Pile	Ceil E. Robinson Jr.	Route 2, Box 4A Ruther Glen VA 22546
21	0.83	Site Specific	Point Discharge	BOWLING GREEN WASTEWATER TREAT	219 ANDERSON AVE BOWLING GREEN VA 22427

6033550 WELL 4 Page 2 of 2

Virginia Department of Health, Office of Drinking Water Source Water Assessment Program Typical Contaminants Compendium (Rev. December 2015)

Land Use	Typical Contaminants ^{1,2,3}	Contaminant Types
COMMERCIAL / INDUSTRIAL		
Auction lots	Livestock sewage wastes; nitrates; phosphates; coliform and noncoliform bacteria; giardia, viruses; total dissolved solids	Inorganics
Automotive Body shops/repair shops	Waste oils; solvents; acids; paints; automotive wastes ⁴ ; miscellaneous cutting oils	
Car washes	Soaps; detergents, waxes; miscellaneous chemicals	Inorganics, SOCs, VOCs
Gas stations	oils; solvents; gasoline, diesel, miscellaneous wastes, lead	
Boat Services/repair/refinishing	Diesel fuels; oil; septage from boat waste disposal area; wood preservative and treatment chemicals; paints; waxes; varnishes; automotive wastes ⁴	Inorganics, SOCs, VOCs
Cement / concrete plants	Diesel fuels; solvents; oils; miscellaneous wastes	Inorganics, SOCs, VOCs
Dry cleaners	Solvents (perchloroethylene, petroleum solvents, Freon); spotting chemicals (trichloroethane, methyl chloroform, ammonia, peroxides, hydrochloric acid, rust removers, amyl acetate)	VOCs
Electrical/electronic manufacturing	Cyanides; metal sludges; caustic (chromic acid); solvents; oils; alkalis; acids; paints and paint sludges; calcium fluoride sludges; methylene chloride; perchloroethylene; trichloroethane; acetone; methanol; toluene; PCBs	Inorganics, SOCs, VOCs
Food processing / Animal Slaughtering	Nitrates; salts; phosphorus; miscellaneous food wastes; chlorine; ammonia; ethylene glycol	Inorganics, Microbial, VOCs, SOCs
Funeral homes and Mortuaries	External corporeal wash water, internal body fluids, as well as residual arterial embalming chemicals (formaldehyde, phenol, and methanol	Inorganics, Microbial, SOCs, VOCs
Furniture repair/manufacturing	Paints; solvents; degreasing and solvent recovery sludges; lacquers; sealants	Inorganics, SOCs, VOCs
Hardware/lumber/parts stores	Hazardous chemical products in inventories; heating oil and fork lift fuel from storage tanks; wood-staining and treating products such as creosote; paints; thinners; lacquers; varnishes	Inorganics, SOCs, VOCs
Home manufacturing	Solvents; paints; glues and other adhesives; waste insulation; lacquers; tars; sealants; epoxy wastes; miscellaneous chemical wastes	Inorganics, SOCs, VOCs
Hospitals/Research laboratories	X-ray developers and fixers ⁸ ; infectious wastes; radiological biological wastes, disinfectants; asbestos; beryllium; solvents; infectious materials; drugs; disinfectants; (quaternary ammonia, hexachlorophene, peroxides, chlorhexidine, bleach); and miscellaneous chemical wastes.	Inorganics, Microbial, RADs, SOCs, VOCs
Junk/scrap/salvage yards	Automotive wastes ⁴ ; PCB contaminated wastes; any wastes from businesses ⁶ and households ⁷ ; oils; lead	Inorganics, SOCs, VOCs
Machine shops	Solvents; metals; miscellaneous organics; sludges; oily metal shavings; lubricant and cutting oils; degreasers (tetrachloroethylene); metal marking fluids; mold-release agents	Inorganics, SOCs, VOCs
Medical/vet offices	X-ray developers and fixers ⁸ ; infectious wastes; radiological wastes; biological wastes; disinfectants; asbestos; beryllium; dental acids; variable miscellaneous chemicals	Inorganics, Microbial, RADs, SOCs, VOCs
Metal plating/finishing/ fabricating	Sodium and hydrogen cyanide; metallic salts; hydrochloric acid; sulfuric acid; chromic acid; boric acid; paint wastes; heavy metals; plating wastes; oils; solvents	Inorganics, SOCs, VOCs
Military installations	Wide variety of hazardous and nonhazardous wastes depending on the nature of the facility and operation ⁹ ; diesel fuels; jet fuels; solvents; paints; waste oils; heavy metals; radioactive wastes	Inorganics, RADs, SOCs, VOCs

Virginia Department of Health, Office of Drinking Water Source Water Assessment Program Typical Contaminants Compendium (Rev. December 2015)

Office buildings/complexes Building wastes ⁶ ; lawn and garden maintenance chemicals ⁵ ; gasoline; motor oil Parking lots/malls Hydrocarbons; heavy metals; building wastes ⁶ TSS, oil & grease, fecal coliform, volatile organic compounds, nonconventional pollutants. Ethanol, isopropanol, ethylene glycol, xylene, toluene,	Inorganics, SOCs, VOCs Inorganics, SOCs, VOCs
Pharmaceutical TSS, oil & grease, fecal coliform, volatile organic compounds, nonconventional pollutants.	
nonconventional pollutants.	
Ethanol isonronanol athylene alycel vylene tolueno	Microbial, SOCs, VOCs
Photo processing, print shop Cyclohexanone, petroleum products, volatile organic compound lead, chromium, silver, cadmium, and barium,	nds, Inorganics, SOCs, VOCs
Scouring alkali waste, oils, surfactants, lubricants, dye, blead (hydrogen peroxide, sodium hypochlorite, sodium chlorite, su dioxide), caustic soda, salts	
Wood preserving/treating Wood preservatives; creosote, pentachlorophenol, arsenic, di	ioxin. Dioxin, Inorganics, SOCs
Metals; acids; minerals; sulfides; other hazardous and nonhazardous chemicals ⁹ ; organic sludges; sodium hydroxide chlorine; hypochlorite; chlorine dioxide; hydrogen peroxide; treated wood residue (copper quinolate, mercury, sodium azide); tanner gas; paint sludges; solvents; creosote; coating and gluing wastes, dioxin.	e; Dioxin, Inorganics, SOCs
Chemical Processing / Storage	
Above/Below ground storage tanks Heating oil; diesel fuel; gasoline; other chemicals	Inorganics, SOCs, VOCs
Chemical/petroleum Hazardous chemicals; solvents; hydrocarbons; heavy metals; asphalt	Inorganics, SOCs, VOCs
Gas loss, leaching of residual products found in ash residue i the spent gasification cavity (calcium, sodium, sulfate, bicarbonate, metals), condensed liquids (BTEX, phenolic compounds, Polycyclic aromatic hydrocarbons (PAHs) and heterocyclic compounds.	Inorganics, SOCs, VOCs
Pesticide / Herbicide / Fertilizer Manufacture / Distribution / Storage Wide variety of hazardous and nonhazardous wastes depend on the nature of the facility.	ling Inorganics, SOCs, VOCs
Plastics/synthetics producers Solvents; oils; miscellaneous organic and inorganics (phenols resins); paint wastes; cyanides; acids; alkalis; wastewater treatment sludges; cellulose esters; surfactant; glycols; phenology peroxides; etc.	Inorganias SOCs VOCs
Disposal	
Solid Waste Collection / Transfer Site Wide variety of contaminants depending on the historical use. Anthropogenic waste (toxic metals, hydrocarbons, chlorinated hydrocarbons, surfactant-derived compounds, phthalates, pharmaceutical chemicals. Biological waste (ammonia, dissolorganic carbon, aliphatic compounds, phenols, derivates of abietic acid)	d Inorganics, Microbial,
Hazardous Waste Recovery Facility / Waste Transfer / Storage / Disposal and Superfund Sites Wide variety of contaminants depending on historical use.	Inorganics, Microbial, RADs, SOCs, VOCs
Resource Extraction	
Shale Gas extraction / Coalbed methane extractions / Tight sands hydraulic fracturing Total dissolved solids, fracturing fluid additives: acids, biocide gel agents, clay stabilizers, corrosion inhibitors, pH adjusting agents, scale inhibitors, surfactants; metals, naturally occurring radioactive materials.	Inorganics, RADs, SOCs,
Mine spills or tailings that often contain metals; acids; highly corrosive mineralized waters; metal sulfides; metals; acids; minerals sulfides; other hazardous and nonhazardous chemic	Inorganics, RADs, VOCs
NON-INDUSTRIAL	
Golf courses Fertilizers ¹² ; herbicides ¹¹ ; pesticides for controlling mosquitoe ticks, ants, gypsy moths, and other pests ⁵	es, Inorganics, SOCs, VOCs
Transportation	

Virginia Department of Health, Office of Drinking Water Source Water Assessment Program Typical Contaminants Compendium (Rev. December 2015)

Airports (maintenance/fueling areas)	Jet fuels; deicers; diesel fuel; chlorinated solvents; automotive wastes; heating oil; building wastes	VOCs
Barge and Vessel Traffic	Fuel, miscellaneous wastes; oil; variable transported materials	Inorganics, Microbial, RADs, SOCs, VOCs
Boat ramps and marinas	Gasoline, diesel, miscellaneous wastes, lead, waste oil; solvents; gasoline and diesel fuel from vehicles and storage tanks; fuel oil; other automotive wastes ⁴ ; deicing products; variable transported materials	Inorganics, SOCs, VOCs
Fleet / trucking / bus terminals	Waste oil; solvents; gasoline and diesel fuel from vehicles and storage tanks; fuel oil; other automotive wastes ⁴	Inorganics, SOCs, VOCs
Primary Roadways / Truck Terminals	Gasoline, diesel, miscellaneous wastes, lead, waste oil; solvents; gasoline and diesel fuel from vehicles and storage tanks; fuel oil; other automotive wastes ⁴ ; deicing products; variable transported materials	Inorganics, Microbial, RADs, SOCs, VOCs
Railroad tracks / yards / maintenance / fueling areas	Diesel fuel; herbicides for rights-of-way ¹¹ ; creosote from preserving wood ties; solvents; paints; waste oils	Inorganics, Microbial, RADs, SOCs, VOCs
Agriculture		
Crop and Fodder Production/ Specialty Crop Production/Nursery	Pesticides, herbicides, fertilizers, nitrates.	Inorganics, SOCs, VOCs
Pasture (Grazing)/Confined Animal Feeding Operations/Aquaculture	Nutrients: nitrogen, ammonia, and phosphorus; organic matter; pathogens; parasites, bacteria, and viruses; solid matter; pesticides and hormones; antibiotics, metals	Inorganics, Microbial
Land Disposal		
Cemetery	Microbiological contaminants including Staphylococcus spp., Bacillus spp., Enterobacteriaceae spp., fecal streptococci, Clostridium spp., Helicobacter pylori, enteroviruses, rotavirus, calicivirus; arsenic, mercury, formaldehyde, copper, lead, zinc.	Inorganics, Microbial, SOCs
Injection wells/drywells/sumps	Stormwater runoff; spilled liquids; used oils; antifreeze; gasoline; solvents; other petroleum products; pesticides ¹¹ ; and a wide variety	Inorganics, Microbial, RADs, SOCs, VOCs
Landfills/dumps (active and closed)	Leachate; organic and inorganic chemical contaminants; waste from households ⁷ and businesses ⁶ ; nitrates; oils; metals; solvents; sludge	Inorganics, Microbial, SOCs, VOCs
Septic systems	Nitrates; septage; Cryptosporidium; Giardia; coliform ¹⁰ and noncoliform bacteria; viruses; drain cleaners; solvents; heavy metals; synthetic detergents; cooking and motor oils; bleach; pesticides; ^{5,13} paints; paint thinner; swimming pool chemicals; ¹⁴ septic tank/cesspool cleaner chemicals ¹⁵ ; elevated levels of chloride, sulfate, calcium, magnesium, potassium, and phosphate; other household hazardous wastes ⁷	Inorganics, Microbial
Utilities		
Urban stormwater management infrastructure	TSS, pesticides and fertilizers, animal waste, metals, oil and grease/hydrocarbons, bacteria and viruses, nitrogen and phosphorus,	Inorganics, Microbial, SOCs, VOCs
Utility stations/maintenance areas	PCBs from transformers and capacitors; oils; solvents; sludges; acid solution; metal plating solutions (chromium, nickel, cadmium); herbicides from utility rights-of-way	Dioxin, SOCs
Wastewater treatment facilities	Municipal wastewater; sludge ¹⁶ ; treatment chemicals ¹⁷ ; nitrates; heavy metals; coliform ¹⁰ and noncoliform bacteria; nonhazardous wastes ¹⁶	Inorganics, Microbial, SOCs, VOCs

NOTES

¹ This table lists the most common wastes, but not all potential wastes. For example, it is not possible to list all potential contaminants contained in stormwater runoff or from military installations.

² In general, water contamination stems from the misuse and improper disposal of liquid and solid wastes; the illegal dumping or abandonment of household, commercial, or industrial chemicals; the accidental spilling of chemicals from trucks, railways, aircraft, handling facilities, and storage tanks; or the improper siting, design, construction, operation, or maintenance of agricultural, residential, municipal, commercial, and industrial



TOWN OF BOWLING GREEN TOWN COUNCIL MEETING AGENDA ITEM REPORT

AGENDA ITEM: Text Amendment to R-1 Special Use

ITEM TYPE: Action Item

PURPOSE OF ITEM: Decision - By Motion

PRESENTER: Andrea Erard, Town Attorney

PHONE: (804) 633-6212

BACKGROUND / SUMMARY:

Interest has been expressed by the public to allow light impact business activity in certain residential areas. Staff recommends a text amendment to the R-1 zoning that would allow for such activity by Special Use Permit.

ATTACHMENTS:

Proposed text amendment.

REQUESTED ACTION:

Refer text amendment to the Planning Commission for recommendation.

Proposed Text Amendment to R-1

Section 3-116. Special uses.

- (a) The following uses are permitted when authorized by the Town Council of Bowling Green after a recommendation from the Planning Commission:
 - (1) Guest rooms.
 - (2) Family care homes.
 - (3) Two-family dwellings created by conversion of an existing single-family dwelling into a two-family dwelling.
 - (4) Day-care center.
 - (5) Bed and Breakfast Establishment.
 - (6) <u>Mixed Use Development a residential use and a business use that is compatible with the neighborhood.</u>



TOWN OF BOWLING GREEN TOWN COUNCIL MEETING AGENDA ITEM REPORT

AGENDA ITEM: Veteran's Day Program Invitation

ITEM TYPE: Information

PURPOSE OF ITEM: Information Only

PRESENTER: Melissa Lewis, towntreasurer@townofbowlinggreen.com

PHONE: (804) 633-6212

BACKGROUND / SUMMARY:

The American Legion has extended an invitation to a Veteran's Day ceremony. The event will be held on the Courthouse Lawn on Monday, November 11th, at 11AM. In the event of inclement weather, it will move the ceremony to the Town Hall in Bowling Green.

ATTACHMENTS:

Email from Bob Smith, Commander of American Legion Post 221

REQUESTED ACTION:

None.



Melissa Lewis <towntreasurer@townofbowlinggreen.com>

Veteran's Day

2 messages

Robert Smith <smithrgdcfm@aol.com>

Mon, Oct 28, 2019 at 12:43 PM

I am Bob Smith, Commander of Caroline County Memorial Post 221 of The American Legion. I would like to take this opportunity to invite you to attend the annual Caroline County Veteran's Day Ceremony. It will be held on the Courthouse Lawn in Bowling Green on Monday, November 11th, at 11AM. In the event of inclement weather we will move the ceremony to the Town Hall in Bowling Green.

Command Sergeant Major Joseph Reilly, Garrison Command Sergeant Major of Fort AP Hill, will be our keynote speaker. There will be live music and participation by the Caroline County Sheriff's Office Guard of Honor. Refreshments will be available at the conclusion of the ceremony as supplied by Ms. Dawn Harris of the Flying Pig Stop Cafe.

I would be delighted to have you participate with The American Legion on this commemorative day and I hope to hear from you should I have the pleasure of your company. Please call me if you have any questions or concerns at (804) 258-2095. I look forward to seeing and meeting you as we pay respects to our county's veterans.

For God and Country,

Robert G. "Bob" Smith Commander Caroline County Memorial Post 221 The American Legion (804) 258-2095 smithrgdcfm@aol.com