

Public Water System Annual Report  
Summary of 2019

Prepared by:

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To report an emergency, call Tyson @ 204-851-0184

The Rm of Pipestone's water system is known as a "Satellite System". The water pipeline supplied by the Rm of Wallace-Woodworth is able to service not only the town of Reston but our rural residents along with our other rural communities as well. It is the goal of the Utilities department to provide safe, cost effective water to residents of the Rm of Pipestone while staying in compliance with the regulatory requirement's governing provision of drinking water. In the summer of 2019, we installed 1 new connection throughout the RM.

### **Where do we get our drinking water from?**

We get our drinking water from our bordering RM of Wallace through various sizes of water pipelines ranging from 2 inch to 8 inch. We have 3 water shacks located all on road 53 where the water is metered and then piped to our residents. We check these water shack 3 times per week to check for proper pressures and to make sure we have no leaks in our system. The water source for the Rm of Wallace is a secure ground water and is treated with sodium hypochlorite for disinfection. It arrives by pipeline to our reservoir or directly to your tap if you're in the rural.

### **What kind of chemical treatment do we use?**

The Rm of Wallace-Woodworth provides us with clean, safe drinking water treated from their water plant. Our job is to test the chlorine levels every day to ensure the chlorine levels are above government standards. Our standards are to keep chlorine levels higher than .1 mg/l at the farthest end of our distribution system. Over the whole year of 2019 we met 100% compliance with this standard. If a problem should arise that the chlorine level dip below our standard, we would then begin infusing chlorine by pump into our reservoir to bring chlorine levels up to standard or higher. In 2019 this process was not needed as chlorine levels did not go that low.

## Guidelines as for testing as per our Drink Water License

Test results from Rm of Wallace-Woodworth

Water System Code 168.5

Parameter	Guide Limit (only applies to treated)	Treated Water Results (provided by the Wallace Regional Water System)
Arsenic	Less than or equal to 0.01mg/L	<0.001 mg/L
Benzene	.005 Mg/L	<0.00050 Mg/L
Fluoride	1.5 Mg/L	0.039 Mg/L
Lead	0.01 Mg/L	0.000275 Mg/L
Nitrate	10 Mg/L	0.119 Mg/L
Trichloroethylene	1.005 Mg/L	<0.00050 Mg/L
Tetrachloroethylene	0.01 Mg/L	<0.00050 Mg/L
Uranium	.02 Mg/L	<0.00049 Mg/L

## Bacteriological Sample and Chlorine Residual Results

Water Quality Standard	Distribution Free Chlorine Sampling Results	Bi-weekly Monitoring Requirement
Total Coliform: Less than one total coliform bacteria detectable per 100mL in all distributed water	100% compliant	78 of 78 required samples were submitted for 2019
<i>E. coli</i> : Less than one <i>E. coli</i> bacteria detectable per 100mL in all distributed water	100% compliant	78 of 78 required samples were submitted for 2019
Free Chlorine: a free chlorine residual of at least 0.1mg/L at a; times at any point in the distribution system	100% compliant	78 of 78 required samples were submitted for 2019

Samples are taken from 4 places:

1. Reston water plant distribution side
2. Reston Health Center
3. Town of Sinclair
4. Town of Cromer (Road 48 and highway 256 water shack)

### **Booster Station**

In 2019 we added in 2 VFD booster pumps into shack 171 and 53 to boost pressure to over 150 and residence. Since the addition pressure problems have decreased.

### **How much water storage do we have?**

The town of Reston has a reservoir which is used to store water for users' needs and for firefighting. The reservoir has a capacity of 90,000 Gallons of water which is approximately 3 days' worth of water. The reservoir is designed to have the fresh water come in the bottom of the reservoir causing it to cycle the water in it so it does not become stale. If a major water break were to occur or a major fire the town of Reston would put out a phone message to residents to reduce water usage. If this situation were to happen, reduce usage. Meaning no showering (If possible), no laundry, and don't fill the hot tub or pool.

The rural connections do not have a reservoir to rely on if there is a break but the Utilities department will do the best, we can to get the supply to the consumer as fast and as safely as possible. We have purchased a new enclosed trailer and stocked it with electro fuse couplers and mechanical couplers. With these parts we are able to dig up leaks and have all the parts that we need in stock to fix it immediately. The Rm of Wallace-Woodworth is set up with back up generators to keep water flowing in the event of a power outage.

### **Is our water tested? What for? When?**

Our water is tested and sent to Winnipeg to be analyzed by ALS in their lab. We take samples every 2 weeks. The sample points are the water plant in Reston, the hospital in Reston and we alter between Sinclair and Cromer each time we test. We test for 2 different things, **Total Coliforms and Escherichia Coli**. These test results are submitted to the provincial Office of Drinking Water for review. In 2019 we met all the provincial standards.

### **What do we have to alert RM of Pipestone residents of water emergencies?**

We have set up an emergency telephone system that allows us to get the first phone call out within minutes of the emergency happening. We also have public works and office staff available to go door to door to drop of information if it is needed due to such examples as a water break or a boil water advisory. Every year we are to send an emergency response plan to the province. In 2019 I failed to send this procedure to them and was not in compliance. I plan was made but was not sent. I have updated the plan and have sent it in for 2020 to ensure the standard is met.

### **Were there any emergencies to report in 2019?**

In 2019 the Rm of Pipestone had 2 water leaks to report. The first one was located in Reston on 6<sup>th</sup> street. The saddle of a house connection had let go and was replaced for a new one. The second leak took place on road 44 between roads 169 and 170. A section of DR 17 pipe was cut out and replaced along with 2, 3" mechanical couplers were installed.

With both of these water leaks we were issued a boil water advisory. Water samples were taken in accordance with the drinking water officer 24 hours apart. The Rm of Pipestone is now driving samples to Winnipeg under boil water advisories to ensure that the samples get there as fast and as safe as possible. Once the 2 sets of samples come back with clean with no positive's tests for contaminates in the line the drinking water officer issues a rescinded boil water

letter. We then inform our customers that the water system is safe to go back to normal usage.

Estimated cost of Reston Repair \$3800.00 (Trac hoe, Vac Truck, Saddle, ¾" coupler, sand as back fill)

Rural repair estimated cost \$4300.00 (Trac hoe, Vac truck, 2 – 3" macro couples, 15-foot section of DR 17 pipe)

### **Utility Department Leak Trailer**

We have a 16' enclosed trailer and have filled it with every part that could be needed to repair a leak in the rural, town of Reston, Sinclair and Cromer. The reason for this is that each town and in the rural all take different parts due to different ages of infrastructure. We have also added in pumps, shut off tools and are looking to add a generator to make leak repairs fast and easier.

### **Future system expansion or expenses expected?**

The Town of Reston has been working with an engineer on developing a plan to upgrade infrastructure and pumps in the Reston water plant. Currently we run 2 submersible pumps and would like to have these updated to VFD. Plans include 2 new VFD pumps, a duty pump to run for low flows and another pumps for fire protection. We would also like to add a back up generator to the plant in case of emergency power outages. There would also be some upgrades and maintenance done to the water plant building.

### **Safety Orders, Advisories, and Enforcement**

The Pipestone PWS was not issued any Safety orders, Water Quality Advisories, or enforcement in 2019. See the above section on 'Emergency Reporting' for additional information on any boil water advisories issued in 2019.

**Who can we call with questions or concerns?**

You can call our office in Reston at 877-3327 within the hours of 9:00 AM to 5:00 PM (closed 12:00 to 1:00 for lunch). You can also call or email Tyson Anderson at 204-851-0184 or email [Tyson@rmofpipestone.com](mailto:Tyson@rmofpipestone.com)