

# Public Water System Annual Report

Town of Melita  
2017

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Date Prepared: 3/15/2018

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**Table of Contents**

Introduction: ..... 3

**1. Description of the Water System..... 3**

**1.1. Distribution System..... 4**

**1.2. Water Treatment Process ..... 4**

**1.3. Number of Connections, Population Served and types of Water Users ..... 4**

**1.4. Classification and Certification ..... 5**

**1.5. Bacterial Testing ..... 5**

**1.6. Disinfection..... 5**

**2. Drinking Water Safety Orders and Actions Taken in Response..... 5**

**3. Boil Water Advisories Issued and Actions Taken in Response ..... 5**

**4. Warnings Issued/Charges Laid in Accordance with the Drinking Water Safety Act ..... 5**

**5. Major Expenses Incurred ..... 5**

**6. Future System Expansion and/or Increased Production ..... 5**

Appendix “A” – Annual Audit 2017..... 6

## Introduction:

The 2017 Annual Report for the Town of Melita summarizes the water utility's ability to produce safe potable water and meet or exceed provincial regulations. We hope that the following report answers any and all questions regarding the water system. It is our belief that the public has a right to access information related to the drinking water they consume. To that end the following report has been prepared for the residents of the Town of Melita and Municipality of Two Borders users who have lines coming off Melita's distribution system.

### 1. Description of the Water System

The Melita Public Water System (PWS) provides safe potable drinking water to the residents of Melita through the distribution system and to rural residents who aren't on the Co-op pipeline by means of the Truck Fill System at the Water Treatment Plant (WTP) and those who are, have lines coming off Melita's distribution system. Treated water produced from the WTP meets and exceeds all health and aesthetic objectives as stated in the *Guidelines for Canadian Drinking Water Quality*.

The Melita Water Treatment Plant



## Truck Fill



### 1.1. Distribution System

Treated water from the reservoir, located underneath the WTP, is pumped throughout the Melita distribution system via two 7.5 horsepower duty pumps, with one 30 horsepower emergency standby pump for firefighting purposes. The Town of Melita has 3 different types of pipes in its distribution system; they consist of PVC, cast iron and ductile iron, which all combined run for a total of about 15km. The WTP also has a natural gas powered generator located in the building that powers the distribution pumps during times of a power failure.

## The Distribution Pumps



The Generator

### 1.2. Water Treatment Process

For information on the water treatment process, raw water wells, chemicals used and water testing please refer to ***South West Regional Water Co-op's Annual Report.***

### 1.3. Number of Connections, Population Served and types of Water Users

The Melita distribution system is comprised of 592 service connections, with a population of 1042 (2016 Statistics Canada Census) approximately. The distribution system also services a few rural connections located directly around town in the Municipality of Two Borders.

#### 1.4. Classification and Certification

- The Melita distribution system is classified as a Class 1 Water Distribution Facility.
- Certification Level of Operators;
  - Garry VanSteelandt
  - James Gerlock

#### 1.5. Bacterial Testing

The water is sampled in two different locations in the distribution, (within the Town of Melita) it is tested every two weeks (bi-weekly) for the presence of Total Coli forms (TC) and E. Coli (EC) bacteria. If these bacteria are present in the water it is an indication that disease causing organisms may also be present. These samples are then sent by mail to a provincially sanctioned lab in Winnipeg for testing. For 2017 all samples sent for testing passed.

#### 1.6. Disinfection

Disinfection is the selective destruction or inactivation of potential disease causing organisms in water. Per the *Drinking Water Safety Act* the Melita PWS must ensure that a disinfection residual of at least:

- 0.5 mg/L of free chlorine per litre of water is detectable at the point where water enters the distribution system, after a minimum contact time of 20 minutes.
- 0.1 mg/L of free chlorine per litre of water is detectable at all times at any point in the distribution network.

For 2017 all samples tested met both the above standards. Water is tested daily at the Melita Lodge to check the chlorine residuals in the system along with the other tests listed below. For 2017 the chlorine residuals at the Lodge were on average 0.74 mg/L with the highest and lowest readings being 0.95 mg/L and 0.45 mg/L.

- Lodge Tests on average 6 tests per day, which include turbidity, free chlorine, total chlorine, iron, pH, manganese, conductivity and hardness.

#### 2. Drinking Water Safety Orders and Actions Taken in Response

In 2017, no drinking water safety orders were issued for the Melita PWS.

#### 3. Boil Water Advisories Issued and Actions Taken in Response

In 2017, no boil water advisories were issued for the Melita PWS.

#### 4. Warnings Issued/Charges Laid in Accordance with the Drinking Water Safety Act

In 2017, no warnings were issued or charges laid for the Melita PWS.

#### 5. Major Expenses Incurred

Upgraded the Melita Truck Fill Card system.

#### 6. Future System Expansion

Nothing for 2018

## Appendix "A" – Annual Audit 2015



Office of Drinking Water  
1129 Queens Avenue, Brandon, Manitoba Canada R7A 1L9  
T 204-726-6563 F 204-726-6567  
[www.manitoba.ca/drinkingwater](http://www.manitoba.ca/drinkingwater)

File: 137.00

February 3, 2016

Sandra Anderson, CAO  
Town of Melita  
Box 365  
Melita MB R0M 1L0

### 2015 Annual Compliance Audit

Dear Ms. Anderson:

Please find enclosed the 2015 Annual Compliance Audit for the Melita ( Southwest Regional Water Co-op ) public water system (PWS). The report compares water system compliance to *The Drinking Water Safety Act* and its supporting regulations, and the terms and conditions of the water system's current operating licence (PWS-12-514 A).

Where non-compliance items are identified, the issues do not necessarily translate into increased public health risk. The Office of Drinking Water uses processes, including boil water advisories, to notify water users of a public health risk.

Please review the following terms and conditions of your operating licence to ensure on-going compliance:

- Water quality sampling frequencies identified in *Table 2*.
- Engineering Assessment (due date: March 1, 2017)
- 2015 Public Water System Annual Report (due date: March 31, 2016)

The Haloacetic Acid (HAA) standard of 0.08 mg/L will now be applied as a standard in all surface and groundwater under the direct influence of surface water (GUDI) operating licences as they are amended or renewed. The HAA standard will also apply to groundwater systems where HAAs are found to be above the standard. Where a system is not in compliance with the HAA standard of 0.08 mg/L, a compliance plan will be required to address the standard.

Water suppliers that have been monitoring for HAAs and are currently preparing a compliance plan for Trihalomethanes should include HAAs in the plan in advance of the change to the operating licence clause.

Water suppliers are reminded to immediately notify the Office of Drinking Water of any condition(s) that may affect the ability of the water system to produce or deliver safe drinking water. These conditions include:

- treatment upsets, bypass conditions, operation outside of licence conditions
- contamination of source or treated water
- a disinfection, filtration, or distribution system failure

The 2015 Annual Compliance Audit is based on information submitted to this office. If you have questions regarding non-compliance items identified in this audit, review your records prior to contacting this office. If your records conflict with the audit information please call me at 204-726-6563.

Sincerely,

---

Glen Robertson  
Senior Regional Drinking Water Officer

Enclosures

cc: Rob McCutcheon, Water Treatment Plant Operator [melshop@mymts.net](mailto:melshop@mymts.net)



### **2015 Annual Compliance Audit**

Water System: MELITA ( SOUTHWEST REGIONAL WATER CO-OP ) - PWS

Code: 137.00

Water System Owner: Town of Melita

Water System Operating Licence: PWS-12-514 A

Expiry Date: April 30, 2017

- 1) This report documents the Melita ( Southwest Regional Water Co-op ) Public Water System compliance for the period from January 1 to December 31, 2015.
- 2) Addendum A to this report provides specific information on the non-compliance incidents identified in the summary below.
- 3) Other than the information provided in attached Addendum A, the water supplier has complied with *The Drinking Water Safety Act*, its supporting regulations, and the terms and conditions of the water system's current operating licence
- 4) This report is based on information submitted by the water supplier, agents of the water supplier, and / or the Province of Manitoba.

#### **Summary of Non-Compliance Incidents:**

None reported
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Addendum A: Record of Non-Compliance  
 Water System: MELITA (SOUTHWEST REGIONAL WATER CO-OP) - PWS  
 Report period: January 1, 2015 to December 31, 2015.

***Enforcement Action Taken***

Date	Clause	Incident	Outcome
		None reported	

***Disinfection Requirements***

Date	Samples	Incident	Outcome
		None reported	

***Bacteriological Requirements***

Date	Samples	Incident	Outcome
		None reported	

***Microbial Requirements***

Date	Clause	Incident	Outcome
		None reported	

***Turbidity Requirements***

Date	Samples	Incident	Outcome
		None reported	

***Chemical Requirements***

Date	Clause	Incident	Outcome
		None reported	

***Operational Requirements***

Date	Clause	Incident	Outcome
		None reported	