



## 2018 Summary Report

for the

Town of Minto

**CLIFFORD DRINKING WATER SYSTEM**

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## **1.0 INTRODUCTION**

### **1.1 Background**

In December 2002, the Safe Drinking Water Act (SDWA) was enacted. Subsequently, on June 1, 2003, under the SDWA, a new '*Drinking-Water Systems Regulation*', Ontario Regulation 170/03 (O. Reg. 170/03), was enacted. In addition, several supporting regulations and procedures were also enacted to assist with the administration of O. Reg. 170/03. The list of relevant drinking-water legislation is presented in Appendix A.

The SDWA identifies the responsibilities of owners and operating authorities of municipal drinking water systems (SDWA, Sections 11 and 19). Their duties include ensuring that:

- All water provided by the drinking-water system meets prescribed drinking-water quality standards;
- The drinking-water system is operated in accordance with the Act and regulations and is kept in a good state of repair;
- All facilities are appropriately staffed and supervised;
- All sampling, testing and monitoring requirements are complied with;
- All reporting requirements are complied with; and
- Only persons holding valid operator's certificates operate the drinking-water-system.

O. Reg. 170/03 establishes the standard for protection of drinking water. It includes sets of schedules, specific to municipal residential systems that define requirements for:

- Minimum treatment levels;
- Operational checks;
- Chemical and microbiological sampling and testing;
- Adverse results reporting;
- Corrective procedures; and
- Report documentation and retention.

The system's Municipal Drinking Water Licence (MDWL), Drinking Water Works Permit (DWWP) and Permit To Take Water (PTTW) imposes system specific rules and conditions applicable to the standards set out in O. Reg. 170/03.

## 1.2 Objective

This Summary Report for the Clifford Drinking Water System is being prepared in fulfillment of Schedule 22 of O. Reg. 170/03, and will be given to Members of the Municipal Council. It covers the period from January 1, 2018 to December 31, 2018.

This Summary Report lists any requirements of the Act, the regulations, the PTTW, the MDWL, the DWWP and any order that the system failed to meet during the period of this report. For any such failure, the measures that were taken to correct the failure are detailed. The report also includes relevant information that will assist the Town of Minto to assess the water work's capability to meet existing and future planned uses of the system.

## 1.3 Description of Drinking Water System

Clifford is a community with a population of approximately 920 persons, located within the Town of Minto at the northwest corner of Wellington County, along the route of Provincial Hwy. No. 9.

Clifford is serviced by a municipal Drinking Water System that is comprised of: three drilled well supplies, two pumphouses, an elevated 1,275 m<sup>3</sup> storage tank and a distribution network of watermains. The watermains range in diameter from 100 mm to 300 mm. The municipal water system is also used for fire protection and has approximately 46 fire hydrants throughout the distribution system. In the event of a prolonged power outage, a portable generator can be moved to Wells #1, #3 & #4 to supply back-up power.

Well #3 is a deep overburden well, and serves as the primary production well for the system. Wells #1 and #4 are bedrock wells and provide peak flows and redundancy to the system. Wells #3 and #4 are a *combined supply*, and are not allowed to operate together. All three operating wells are equipped with submersible pumps; the pump in Well #3 is a variable speed pump.

The pumphouse on Allan Street serves Well #1. The second pumphouse is in the base of the elevated storage tank on Nelson Street and serves Wells #3 and #4. The treatment employed in both pumphouses includes the use of sodium silicate for the sequestering of iron and sodium hypochlorite for disinfection of the raw water. A continuous online analyser measures the levels of free chlorine residual at point of entry (POE). When the alarm for chlorination system failure is activated, there is a corresponding lockout of well pumps. Subsequent to treatment, supply from Well #1 is discharged from the chlorine contact pipe into the distribution system, while supply from Wells #3 and #4 is discharged from the chlorine contact pipe directly into the elevated storage tank from the Cl<sub>2</sub> contact pipe.

The Clifford Drinking Water System operates under MDWL 106-101, DWWP 106-201 and PTTW #0441-AQ4H8H.

## **2.0 SUMMARY OF UPGRADES**

### **2.1 Upgrades Completed in 2018**

The disinfection treatment system in the Clifford Drinking Water System meets all of the standards imposed by O. Reg. 170/03 and the MOECC's "*Procedures for Disinfection of Drinking Water in Ontario*".

Typically, maintaining the system includes repairs and/or replacement of individual components as necessary. In 2018 \$48,275 was spent replacing watermain on Elora Street, \$13,200 was spent on Ann Street South to replace the backyard watermain and \$3,150 on Brown and William Street design

The following purchases were also made on equipment that is shared between all of Minto's water systems. \$18,500 on the water meter installation program and \$86,000 on 2 new trucks.

Preventative maintenance measures are being followed to ensure proper operation of the Drinking Water System.

### **2.2 Upgrades Scheduled to be Completed in 2019**

In 2019, the Town of Minto is planning to spend \$20,000.00 on the Brown and William St. Development and \$10,000 to upgrade the hydro service and variable frequency drive. The following will also be purchased to be shared within the water department. \$53,500 for SCADA, computer hardware and software, \$20,000 for water meters, \$50,000.00 on vehicle replacement and \$10,000 on chemical pumps.

## **3.0 OPERATION OF THE DRINKING WATER SYSTEM**

### **3.1 Summary of the Quantities and Flow Rates of Water Supplied**

O. Reg. 170/03 stipulates that a summary of the quantities and flow rates of the water supplied from each of Clifford's wells be included in the Summary Report. Tables 3.1, 3.2 and 3.3 provide a summary of quantities and flow rates supplied during 2018, for Wells #1, #3 and #4 respectively, on a monthly basis. Well #1 supplies the Allan Street Wellhouse. Wells #3 and #4 supply the Nelson Street Wellhouse; they are a *combined* supply and are not allowed to operate together.

**Table 3.1**  
**Clifford Drinking Water System – Well #1**  
**Treated Water Flow, Turbidity, and Disinfectant Residual**  
**January 1, 2018 – December 31, 2018**

Month	Raw Water Flow (Max Daily Volume = 1,309 m <sup>3</sup> /day (Max Flow Rate = 15.15 L/s)			Chlorine	Monthly Averages				Distribution System Disinfectant
	Operator Observed Peak Flow (L/s)	Maximum Day Flow (m <sup>3</sup> /day)	Monthly Total (m <sup>3</sup> )		Monthly Total (L)	Treated Water Turbidity		Treated Water Disinfectant Point of Entry	
				No. of Samples Collected		Monthly Average Turbidity	No. of Treated Samples Collected	Average Residual (mg/L)	
January	13.1	148	4,002	66	8	0.35	31	1.32	See Clifford Well #3 Data
February	13.1	170	3,305	88	8	0.41	28	1.20	
March	13.1	165	3,609	88	7	0.45	31	1.29	
April	13.1	147	3,090	95	5	0.29	30	1.29	
May	13.1	149	3,154	89	6	0.50	31	1.26	
June	13.1	165	3,346	88	4	0.53	30	1.22	
July	13.1	179	3,633	87	5	0.64	31	1.05	
August	13.1	135	2,956	88	7	0.55	31	1.22	
September	13.2	119	2,816	91.5	6	0.45	30	1.18	
October	13.2	122	2,944	87	9	0.49	31	1.34	
November	13.2	118	2,541	69	14	0.29	30	1.33	
December	12.9	134	3,080	87	11	0.41	31	1.33	
<b>Total</b>			<b>38,476</b>	<b>1,024</b>	<b>90</b>		<b>365</b>		
<b>Average</b>			<b>3,206</b>			<b>0.45</b>		<b>1.25</b>	
<b>Maximum</b>	<b>13.2</b>	<b>179</b>							

Disinfectant Compound Used: **12% Sodium Hypochlorite**  
 Form of Residual Displayed: **Free**  
 Quantity of Disinfectant Used During 2018: **1,024 L**  
 Distribution System Minimum Target Residual: **0.2 mg/L**

**Table 3.2**  
**Clifford Drinking Water System – Well #3**  
**Treated Water Flow, Turbidity, and Disinfectant Residual**  
**January 1, 2018 – December 31, 2018**

Month	Raw Water Flow (Max Flow Rate = 7.6 L/s) (Max Daily Volume = 1,309 m <sup>3</sup> /d) This is the allowable combined limits for Well # 3 & Well # 4			Chlorine	Monthly Averages				Distribution System Disinfectant
	Operator Observed Peak Flow (L/s)	Maximum Day Flow (m <sup>3</sup> /day)	Monthly Total (m <sup>3</sup> )		Treated Water Turbidity		Treated Water Disinfectant Point of Entry		
				Monthly Total (L)	No. of Samples Collected	Monthly Average Turbidity	No. of Treated Samples Collected	Average Residual (mg/L)	No. of Samples Collected
January	4.4	100	1,939	44	9	0.27	31	1.34	49
February	4.5	130	2,003	87	8	0.36	28	1.31	44
March	4.5	95	2,072	38	7	0.33	31	1.34	50
April	4.5	198	2,271	66	4	0.27	30	1.3	47
May	4.5	239	2,977	88	5	0.41	31	1.37	47
June	4.5	109	2,371	66	4	0.63	30	1.3	48
July	4.5	117	2,833	65	5	0.54	31	1.17	49
August	4.5	91	1,945	45	7	0.58	31	1.19	50
September	4.5	84	1,471	66	6	0.53	30	1.28	44
October	4.5	342	2,819	67	9	0.48	31	1.42	50
November	4.5	127	2,031	88	14	0.27	30	1.41	49
December	4.5	104	2,364	45	11	0.30	31	1.17	46
<b>Total</b>			<b>27,096</b>	<b>765</b>	<b>89</b>		<b>365</b>		<b>573</b>
<b>Average</b>			<b>2,258</b>			<b>0.41</b>		<b>1.30</b>	
<b>Maximum</b>	<b>4.5</b>	<b>342</b>							

Disinfectant Compound Used: **12% Sodium Hypochlorite**  
 Form of Residual Displayed: **Free**  
 Quantity of Disinfectant Used During 2018 for Wells #3 and #4 combined: **765 L** \*(Wells #3 and #4 share the same Cl<sub>2</sub> storage container)  
 Distribution System Minimum Target Residual: **0.2 mg/L**

**Table 3.3**  
**Clifford Drinking Water System – Well #4**  
**Treated Water Flow, Turbidity, and Disinfectant Residual**  
**January 1, 2018 – December 31, 2018**

Month	Raw Water Flow (Max Flow Rate = 15.15 L/s) (Max Daily Volume = 1,309 m <sup>3</sup> /d) This is the allowable combined limits for Well # 3 & Well # 4			Chlorine	Monthly Averages				Distribution System Disinfectant
	Operator Observed Peak Flow (L/s)	Maximum Day Flow (m <sup>3</sup> /day)	Monthly Total (m <sup>3</sup> )		Monthly Total (L)	Treated Water Turbidity		Treated Water Disinfectant Point of Entry	
				No. of Samples Collected		Monthly Average Turbidity	No. of Treated Samples Collected	Average Residual (mg/L)	
January	10.2	50	1,111	See Clifford Well #3 Data	9	0.32	31	1.24	See Clifford Well #3 Data
February	10.2	53	935		8	0.33	28	1.18	
March	10.4	57	1,012		7	0.33	31	1.25	
April	10.5	54	1,042		6	0.29	30	1.26	
May	10.6	57	1,160		5	0.39	31	1.29	
June	10.5	63	1,201		4	0.51	30	1.24	
July	10.5	54	1,301		5	0.57	31	1.21	
August	10.5	49	1,209		6	0.57	31	1.15	
September	10.6	44	1,052		5	0.43	30	1.10	
October	10.6	54	1,286		6	0.47	31	1.33	
November	10.1	49	1,051		14	0.33	30	1.37	
December	10.0	41	1,080		10	0.22	31	1.31	
<b>Total</b>			<b>13,440</b>	<b>765</b>	<b>85</b>		<b>365</b>		
<b>Average</b>			<b>1,120</b>			<b>0.40</b>		<b>1.24</b>	
<b>Maximum</b>	<b>10.6</b>	<b>63</b>							

Disinfectant Compound Used: **12% Sodium Hypochlorite**

Form of Residual Displayed: **Free**

Quantity of Disinfectant Used During 2018 for Wells #3 and #4 combined: **765 L** \*(Wells #3 and #4 share the same Cl<sub>2</sub> storage container)

Distribution System Minimum Target Residual: **0.2 mg/L**



**Table 3.4**  
**Clifford Drinking Water System – Well #3 & #4 Combined**  
**Treated Water Flow**  
**January 1, 2018 – December 31, 2018**

Month	Treated Water Flow (Well #3 Max Flow Rate = 7.6 L/s) (Well #4 Max Flow Rate = 15.1 L/s) (Max Daily Volume = 1309 m <sup>3</sup> /d)				Chlorine
	Operator Observed Peak flow Well #3 (L/s)	Operator Observed Peak Flow Well #4 (L/s)	Maximum Day Flow (m <sup>3</sup> /day)	Monthly Total (m <sup>3</sup> )	Monthly Total (l)
January	4.4	10.2	100	3,050	44
February	4.5	10.2	130	2,938	87
March	4.5	10.4	95	3,084	38
April	4.5	10.5	198	3,313	66
May	4.5	10.6	239	4,137	88
June	4.5	10.5	109	3,572	66
July	4.5	10.5	117	4,134	65
August	4.5	10.5	91	3,154	45
September	4.5	10.6	84	2,523	66
October	4.5	10.6	342	4,105	67
November	4.5	10.1	127	3,082	88
December	4.5	10.0	104	3,444	45
<b>Total</b>				<b>40,536</b>	<b>765</b>
<b>Average</b>				<b>3,378</b>	
<b>Maximum</b>	<b>4.5</b>	<b>10.6</b>	<b>342</b>		

### 3.2 Comparison of Actual Rates and Maximum Allowable Rates

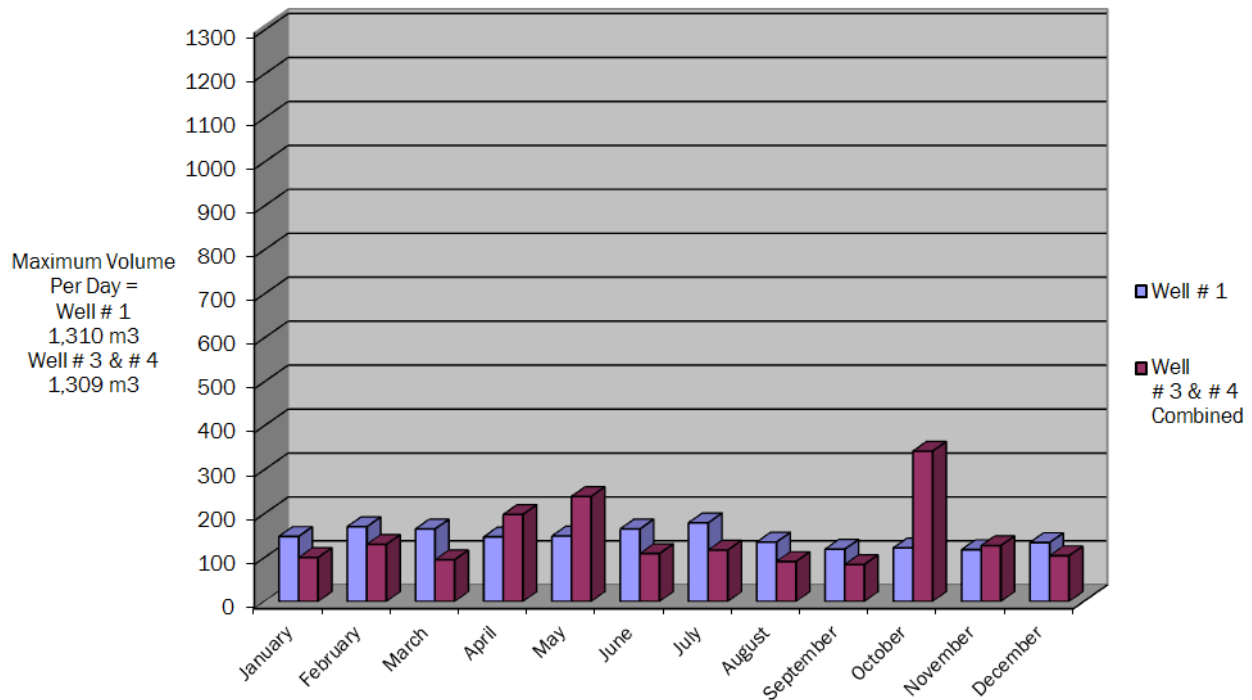
O. Reg. 170/03 stipulates that a summary of the quantities and flow rates of the water supplied from each of Clifford’s wells be included in the Summary Report and compared against the rated capacity and flow rate for the system. As such, a comparison of the instantaneous peak flow to the PTTW’s rated capacity is included and a comparison of the maximum daily flow to the MDWL’s rated capacity is included in Table 3.5.

**Table 3.5**  
**Comparison of Flow Rates and Flow Capacities**  
**To**  
**Rated Flow Rate (PTTW) and Rated Capacity (MDWL)**

Well Supply	PTTW Max. Flow Rate	Operator Observed Peak Flow	Percent of Maximum Allowable	MDWL Schedule Maximum Daily Quantity	Maximum Daily Flow	Percent of Maximum Allowable
	L/s	L/s	%	m <sup>3</sup> /day	m <sup>3</sup> /day	%
Well #1	15.1	13.2	87	1,310	179	14
Well #3	7.6	4.5	60	655	342	52
Well #4	15.1	10.6	70	1,310	63	5

The MDWL stipulates, “The maximum daily volume of treated water that flows from the treatment subsystem to the distribution system shall not exceed the value identified as the rated capacity in Schedule C Table 1.”

**Table 3.6**  
**Maximum Water Usage Per Day by Month**



Short-term peaks, in excess of permitted values, may occur at pump start up, while doing specific maintenance procedures or during emergency demand situations.

The time and duration of any flow exceedance is recorded for each event along with the reason for the occurrence. There were no extended exceedances or exceedances over the daily permitted rate in the Clifford Drinking Water System.

### 3.3 Raw Water Qualities and Required Treatment

The Clifford Drinking Water System has no naturally occurring chemical parameters that exceed MAC (maximum acceptable limit) or IMAC (interim maximum acceptable limit). Starting Jan 1/2018 the MAC for Arsenic (As) will be lowered from .025mg/L to .010mg/L. Reg. 170/03 Section 13.5 states If a test result obtained under section 13-2 or 13-4 for a parameter exceeds half of the standard prescribed for the parameter in Schedule 2 to the Ontario Drinking Water Quality Standards, the frequency of sampling and testing for that parameter under that section shall be increased so that at least one water sample is taken and tested every three months. This will result in continuous quarterly sampling for the Clifford wells, see Table below.

**Table 3.7**  
**2018 Arsenic Sample Results**  
**for Clifford Drinking Water System**

	Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Well # 1	Arsenic	15/02/18	5.4	ug/L	10
	Arsenic	14/05/18	6.4	ug/L	10
	Arsenic	27/08/18	6.5	ug/L	10
	Arsenic	14/11/18	6.0	ug/L	10
Well # 3	Arsenic	15/02/18	<1.0	ug/L	10
	Arsenic	14/05/18	<1.0	ug/L	10
	Arsenic	27/08/18	<1.0	ug/L	10
	Arsenic	14/11/18	<1.0	ug/L	10
Well # 4	Arsenic	15/02/18	7.4	ug/L	10
	Arsenic	14/05/18	8.1	ug/L	10
	Arsenic	27/08/18	7.5	ug/L	10
	Arsenic	14/11/18	7.6	ug/L	10

The Allan Street Wellhouse (*Well #1*) and the Nelson Street Wellhouse (*Wells #3 and #4*) are equipped with continuous monitoring analyzers for measuring free chlorine residuals. The chlorine analyzer is equipped with an alarm to a monitoring centre who will call the on-call water operator to notify of a critical alarm. The average monthly turbidity and free chlorine residual measurements for treated water are presented in Tables 3.1, 3.2 and 3.3.

There were no high turbidity readings (>1.0 NTU) experienced in 2018. The minimum, maximum, and average turbidity readings for raw water from each well are presented in Table 3.7.

Sodium Hypochlorite is the disinfectant used for Wells #1, #3 and #4. Free chlorine residual is monitored continuously at the “Point of Entry” (POE) into the distribution system. Additional “grab samples” are taken daily (excluding weekends and holidays) within the distribution system and tested for the free chlorine residual. The minimum, maximum and average values of free chlorine residual at the POE are presented Table 3.7. Also included in Table 3.7 is the range of free chlorine residual within the distribution system.

The free chlorine residual in the distribution system ranged between 0.38 mg/L and 1.55 mg/L. O. Reg. 170/03, Schedule 1-2 stipulates that the free chlorine residual can never be less than 0.05 mg/L. In addition, O. Reg. 170-03, Schedule 1-4 stipulates that the water treatment equipment must be “...capable of achieving, at all locations within the distribution system, a free chlorine residual of 0.2 mg/L ...”. The Clifford Drinking Water System meets both of these requirements.

**Table 3.8**  
**2018 Annual Summary of**  
**Raw Water Turbidity and Free Chlorine Residual**  
**for Clifford Drinking Water System**

Location	Range	Raw Water Turbidity	Free Chlorine Residual at POE
		NTU	mg/L
Well #1	Minimum	0.10	0.90
	Maximum	0.79	1.62
	Average	0.36	1.25
Well #3	Minimum	0.11	0.89
	Maximum	0.86	1.65
	Average	0.34	1.30
Well #4	Minimum	0.11	0.41
	Maximum	0.86	1.53
	Average	0.41	1.24

### 3.4 Summary of Treatment Chemicals Used

The disinfectant chemical used in the Clifford Drinking Water System is 12% sodium hypochlorite (CL<sub>2</sub>). Measurements of free residual are recorded on a continuous basis. Wells #3 and #4 share the same CL<sub>2</sub> storage container; 765 L of CL<sub>2</sub> is the combined usage for Wells #3 and #4. In 2018, a total of 1,789 L of CL<sub>2</sub> was used for all three wells. The annual average dosage rates for Well #1, and Wells #3 and #4 are presented in Table 3.8.

In 2018, 902 L of sodium silicate was used for the sequestering of iron. The annual average dosage rates for Well #1, Well #3 and Well #4 are presented in Table 3.8.

**Table 3.9**  
**Clifford Drinking Water System**  
**2018 Annual Summary of**  
**Treatment Chemicals Used**

Treatment Chemical	Well	Volume Used	Mass Used	Annual Flow	Dosage Rate
		L	kg	m <sup>3</sup>	mg/L
12 % Sodium Hypochlorite (NaOCl)	Well #1	1,024	122.8	38,476	3.19
	Well #3 & Well #4	765	91.8	40,536	2.26
	Total	1,789	214.6	79,012	2.72
Sodium Silicate (NaSi)	Well #1	440	611.6	38,476	15.90
	Well # 3 & Well #4	462	642.2	40,536	15.84
	Total	902	1,254	79,012	16

- Note:**
- Wells #3 and #4 share the same NaOCl storage container; 765 L is the combined NaOCl usage for both wells.
  - Wells #3 and #4 share the same storage container for the sequestering agent, sodium silicate (NaSi); 462 L is the combined NaSi usage for both wells
  - 12% Sodium Hypochlorite = 120,000 mg/L = 120 kg/m<sup>3</sup>
  - Sodium Silicate has a specific gravity = 1.39

## 4.0 COMPLIANCE

### 4.1 Assessment of Compliance

The objective of the Summary Report is to list any requirements of the Act, the regulations, the PTTW, the MDWL, the DWWP and any MOECC order that the system failed to meet from January 1, 2018 to December 31, 2018, and the corresponding corrective measure(s) taken. Compliance was assessed as follows:

- MOECC Completed Inspection of the Clifford system completed November 13, 2018, Final inspection rating 96.52%
- There were **no MOECC Orders** issued to the Clifford Drinking Water System in 2017.
- The MDWL imposes the specific rules and conditions governing the standards set out in O. Reg. 170/03. It is an important instrument in defining the requirements of compliance of a Drinking Water System.
- O. Reg. 170/03 establishes the standard for protection of drinking water; specifically, through 12 schedules that municipal residential drinking systems must follow to meet the requirements of the regulation.

- The SDWA clearly identifies the responsibilities of owners and operating authorities of municipal drinking water systems. It places a recommended statutory standard of care on those who have oversight of municipal drinking-water systems. In essence, the standard of care has two themes: be informed and exercise diligent oversight.
- Adverse Test Results reported under the Safe Drinking Water Act, 18(1) or O Reg.170/03, Schedule 16-4
  - a) Adverse Water Quality Incidents (AWQI) refer to any unusual test results that do not meet provincial water quality standard or situation where the disinfection of the drinking water may be compromised.

**Table 4.1  
 Adverse Water Quality Incidents**

AWQI #	Date	Issue	Corrective Action
N/A			

#### 4.2 Summary of Compliance

To the best of our knowledge and ability we are in, or diligently working towards, compliance, with all of the requirements of the SDWA, O. Reg. 170/03, as well as the Clifford Water Work's MDLW 106-101, DWWP 106-201 and PTTW #0441-AQ4H8H. Every attempt has been made to ensure this document is an accurate representation of how the Drinking Water System is operated

To the best of our knowledge, Table 4.2 identifies all of the requirements of the SDWA, the regulations, the MDWL, the DWWP. and the PTTW.

**Table 4.2  
 Clifford Drinking Water System  
 Requirements the System Failed to Meet**

Compliance With	Description of Item the System Failed to Meet	Correction of This Situation How/When
MDWL # 106-101	<i>Clifford Drinking Water System is in compliance with all of the requirements of the MDWL</i>	
DWWP # 106-201	<i>Clifford Drinking Water System is in compliance with all of the requirements of the DWWP</i>	

Compliance With	Description of Item the System Failed to Meet	Correction of This Situation How/When
O. Reg. 170/03	<i>Clifford Drinking Water System is in compliance with all of the requirements of O. Reg. 170/03</i>	
SDWA	<i>Clifford Drinking Water System is in compliance with all of the requirements of the SDWA.</i>	

Dated this 8<sup>th</sup> day of March 2019.

  
\_\_\_\_\_  
Wayne Metzger  
Water Foreman