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PWS 49.50

January 22, 2014

Reeve and Council
Rural Municipality of Victoria
Box 40
Holland MB R0G 0X0

2013 Annual Audit Report

Dear Reeve and Council:

Please find enclosed the 2013 Audit Report for the Holland Public Water System (PWS). The report indicates that the public water system has **not** met the following terms and conditions of your Operating Licence:

- Disinfection monitoring in the distribution system

Update on General Chemistries

The requirement to undertake a scheduled general chemistry analysis of the raw and treated water associated with your public water system is a regulatory condition identified in Table 2 of your water system operating licence. Historically, the general chemistry sample has been collected by your regional Drinking Water Officer and has been used to fulfill this Operating Licence requirement on your behalf.

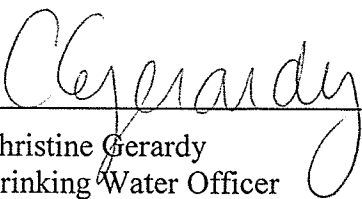
Beginning in 2013, the Office of Drinking Water stopped collecting general chemistry samples for municipal water systems serving populations greater than 1000 people and will likely continue to scale back the public water system general chemistry sampling program over time, replacing that program with targeted parameter specific studies. Water systems will be duly notified of any changes to the chemistry sampling program that affect their system directly.

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 or bypass conditions (including operation outside of licence conditions);
- contamination of source or treated water; or
- a disinfection, filtration or distribution system failure.

The Audit Report is based on information submitted to this office. If your records conflict with the audit information, or if you have any questions concerning this report, or any other drinking water related issues, please call me at (204) 570-1405.

Sincerely,


Christine Gerardy
Drinking Water Officer

Enclosures

e-copy: Ivan Bruneau, CAO

copy: Neil Young, WTP Operator

Water System:

Code:

Operating Licence Number:

Reporting Period:

Date:

Holland – PWS

95.00

PWS-09-275-01

2013

22-Jan-14

Water Quality Standards

 Percent
Compliance

 Corrective
Action Forms

Bacterial

<i>E. coli</i>	Less than one <i>E. coli</i> bacteria detectable per 100mL in all treated water	100	N/A
Total coliform	Less than one total coliform bacteria detectable per 100mL in all treated water	100	N/A
<i>E. coli</i>	Less than one <i>E. coli</i> bacteria detectable per 100mL in all distributed water	100	N/A
Total coliform	Less than one total coliform bacteria detectable per 100mL in all distributed water	100	N/A
Comments:	The public water system has met its bacterial water quality standard for 2013.		

Disinfection

Chlorine Dioxide	A chlorine dioxide residual of at least 0.2 mg/L and not to exceed 0.8 mg/L in water entering the distribution system following disinfection contact time	100	N/A
	A chlorine dioxide residual of at least 0.1 mg/L and not to exceed 0.8 mg/L at all times at any point in the water distribution system	100	N/A
Comments:	The public water system has met its disinfection water quality standard for 2013.		

Chemical

		mg/L
Chlorate	Less than or equal to 1.0 mg/L	0.34
Chlorite (treated)	Less than or equal to 1.0 mg/L	1.6
Chlorite (distribution system)	Less than or equal to 1.0 mg/L	1.4
Arsenic	Less than or equal to 0.01 mg/L	0.00681
Fluoride	Less than or equal to 1.5 mg/L	0.335
Nitrate	Less than or equal to 10 mg/L measured as nitrogen	<0.0050
Uranium	Less than or equal to 0.02 mg/L	0.00013
Benzene	Less than or equal to 0.005 mg/L	<0.50
Trichloroethylene	Less than or equal to 0.005 mg/L	<0.50
Tetrachloroethylene	Less than or equal to 0.03 mg/L	<0.50
Comments:	The above chemistry results, with the exception of chlorate and chlorite, were taken by the Office of Drinking on December 13, 2012. The chlorate and chlorite values were averaged over the six months where samples were submitted (April – September 2013).	

Water System:

Code:

Operating Licence Number:

Reporting Period:

Date:

Holland – PWS

95.00

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Monitoring Requirements

Percent
Compliance

Bacterial

Total coliform and <i>E. coli</i>	Bi-weekly sampling program with each set of samples consisting of one raw, one treated, and a minimum of one distribution sample	100
	Consecutive sample sets must be separated by at least 12 days	100
Comments:	The public water system has met its bacterial sampling requirement for 2013.	

Disinfection

Chlorine dioxide (treated water)	One sample per day of water entering the distribution system following disinfection contact time	100
Chlorine dioxide (distribution system)	At the same times and location(s) as bacteriological distribution system sampling	96
Comments:	The public water system did not meet its disinfection monitoring requirement for 2013. Our records indicate that distribution residuals were not recorded on the lab form when submitting bacteria samples on July 2 nd .	

Chemistry

General chemistry	One raw and one treated water sample once every three years	100
Chlorate	One treated water sample once each year	100
Chlorite (treated water)	One sample of water entering the distribution system following disinfection contact time at a frequency directed by the Drinking Water Officer	100
Chlorite (distribution system)	One sample of water taken at the same time and location as bacteriological distribution system sampling at a frequency directed by the Drinking Water Officer	100
Lead	As per the instructions of the Drinking Water Officer	N/A
Comments:	<p>The Office of Drinking Water submitted water samples for chemical analysis on December 13, 2012. As a groundwater source, a chemical analysis is only required every 3 years. The next chemical analysis will be required in 2015.</p> <p>Regarding chlorate/chlorite testing, the sampling frequency has been reduced to: Chlorate – one sample per year of water entering the distribution Chlorite – one sample every three months of water entering the distribution and one sample every three months from the distribution system.</p>	

Reporting Requirements

Disinfection	Submit original monthly disinfection report forms within seven days after the end of each calendar month	100
Corrective Actions	Submit original corrective action report for minor exceedences as described in the most recent version of the Office of Drinking Water “Operational Guidelines for Public and Semi-public Water Systems”, along with the monthly disinfection report form	N/A

Water System:	Code:	Operating Licence Number:	Reporting Period:	Date:
Holland – PWS	95.00	PWS-09-275-01	2013	22-Jan-14

Emergency	Immediately notify the Office of Drinking Water of any condition that may affect the ability of the water system to produce or deliver safe drinking water including treatment upsets or bypass conditions, contamination of the source water or treated water, a filtration or disinfection system failure, or a distribution system failure	N/A
Comments:	The public water system has met its regulatory reporting requirements for 2013.	

Other Regulatory Requirements

Engineering Assessment		
Due Date	March 1, 2017	
Comments:	Public water systems are required to submit an engineering assessment every five years.	
Compliance Plan		
Due Date	March 1, 2014	
Comments:	For information on compliance plan requirements please refer to the letter from The Office of Drinking Water dated January 17, 2014.	
Operating Licence Expiry Date		
Expiry Date	January 31, 2018	
Comments:	Please be advised that you are required to apply for renewal of your operating licence 60 days prior to its expiry.	

Inspection

System Last Inspected	December 13, 2012
Comments:	Groundwater systems are inspected every two years. An inspection will be planned for 2014.