



**Water and Waste  
Eaux et déchets**

Derek Clarke, Drinking Water Officer  
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Box 6000  
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**December 5, 2019**

**RE: 2019-Q4 CITY OF WINNIPEG TOTAL TRIHALOMETHANES AND TOTAL HALOACETIC ACIDS SUMMARY REPORTS**

Please find attached the 2019-Q4 Total Trihalomethanes and Total Haloacetic Acids Summary Reports for the City of Winnipeg water supply system.

Please let me know of any concerns or questions respecting this submission. I may be reached by telephone at 204-986-8359 or by e-mail at [rgrosselle@winnipeg.ca](mailto:rgrosselle@winnipeg.ca).

Yours sincerely,

Original signed by:

R. Grosselle  
Manager of Environmental Standards

Enclosures

cc: Dr. L. Richards, Winnipeg Regional Health Authority (email)  
Dr. H. Chang, Winnipeg Regional Health Authority (email)  
Dr. S. Roberecki, Manitoba Health, Seniors and Active Living (email)  
M. L. Geer, CPA, CA (e-mail)  
G. Patton, P.Eng. (e-mail)  
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C. Diduck (e-mail)



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## Environmental Standards Division

### Total Trihalomethanes Summary Report

Reporting Period: Quarter 4 2019

License: PWS-09-412-01

SAMPLE DATE	DISTRIBUTION SYSTEM THM RESULTS (ug/L)					
	WC-12	WC-06	NW-05	NE-09	SE-07	SW-08
Monday, February 4, 2019	35.1	39.8	39.2	37.4	38.0	41.0
Monday, May 6, 2019	19.8	20.7	21.7	19.9	16.4	20.9
Tuesday, August 6, 2019	64.0	59.5	49.3	51.4	46.7	58.6
Monday, November 4, 2019	31.1	30.4	30.6	34.6	30.1	32.5
<b>RUNNING AVERAGE THM</b>	<b>37.5</b>	<b>37.6</b>	<b>35.2</b>	<b>35.8</b>	<b>32.8</b>	<b>38.3</b>

#### COMMENTS:

#### Methodology

Modified from EPA Method 5021A, "Volatile Organic Compounds in Various Sample Matrices Using Equilibrium Headspace Analysis", Revision 2, July 2014 and EPA Method 8260B, "Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)", Revision 3, August 2006.

Compiled by: A. Gordon

Approved by: C. Diduck

Date Compiled: December 4, 2019



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**Total Haloacetic Acids Summary Report**

Reporting Period: Quarter 4 2019

License: PWS-09-412-01

SAMPLE DATE	DISTRIBUTION SYSTEM HAA RESULTS (ug/L)					
	WC-12	WC-06	NW-05	NE-09	SE-07	SW-08
Monday, February 4, 2019	29.4	30.3	32.7	31.2	29.0	30.6
Monday, May 6, 2019	18.5	25.1	24.7	20.5	19.6	18.6
Tuesday, August 6, 2019	23.7	40.8	22.5	27.3	37.8	38.6
Monday, November 4, 2019	29.5	31.4	29.1	22.9	28.9	31.1
<b>RUNNING AVERAGE HAA</b>	<b>25.3</b>	<b>31.9</b>	<b>27.3</b>	<b>25.5</b>	<b>28.8</b>	<b>29.7</b>

**COMMENTS:**

Methodology

Modified from EPA Method 552.3, "Determination of Haloacetic Acids and Dalapon in Drinking Water by Liquid-Liquid Micro extraction, Derivatization, and Gas Chromatography with Electron Capture Detection".

Compiled by: A. Gordon

Approved by: C. Diduck

Date Compiled: December 4, 2019