



Water and Waste Department • Service des eaux et des déchets

Environmental Standards Division • Division des Normes Environnementales

June 7, 2017

Marc Balcaen
Office of Drinking Water
Manitoba Sustainable Development
1007 Century Street
Winnipeg, Manitoba R3H 0W4

Our File: 040-18-18-55-00

Dear Mr. Balcaen:

**RE: MAY 2017 WATER QUALITY COMPLIANCE
SUBMISSION FOR THE CITY OF WINNIPEG WATER SUPPLY SYSTEM**

Please find attached on-line and grab turbidity summary reports, on-line and grab chlorine summary reports and the UV summary report for the Water Treatment Plant for May 2017. We have included one corrective action report for a positive total coliform in the distribution system.

The May on-line and grab sampling turbidity reports include results obtained for the Water Treatment Plant raw water and the eight filters. The turbidity results for the effluent from the filters met the licence requirements.

The May on-line and grab sampling chlorine reports include results obtained for the Deacon Booster Pumping Station at the Water Treatment Plant. The free chlorine results at the Water Treatment Plant met the licence requirements.

On May 31, a positive total coliform result was reported for a routine sample at the NE05 location. On June 1 and 2, the location was resampled and results were reported negative. Our resampling also indicated that the chlorine levels at the location were normal and provided adequate disinfection. Please see the attached corrective action report for additional details.

The May UV summary report includes results obtained for the six UV reactors at the Water Treatment Plant. The UV disinfection results met the licence requirements.

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.

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 (email)
G. Patton, P.Eng. (email)
T. Shanks, P.Eng. (email)
M. Szmon, P.Eng. (email)
C. Diduck (email)



**City of Winnipeg**

Water and Waste Department

Water Services

WATER TREATMENT PLANT FREE CHLORINE ON-LINE MONITORING REPORT

Deacon Booster Pumping Station

Water System Code: **252.00**Licence Number: **PWS-09-412-01**

Report Created: 01 June 2017

Report Period: May 2017

Date	BRANCH 1 [mg/L]		BRANCH 2 [mg/L]	
	Average	Minimum	Average	Minimum
01/05/2017	1.00	0.93	1.00	0.93
02/05/2017	0.96	0.90	0.97	0.90
03/05/2017	0.94	0.86	0.93	0.85
04/05/2017	0.97	0.86	1.00	0.81
05/05/2017	1.12	1.06	1.22	1.07
06/05/2017	1.14	1.06	1.24	1.09
07/05/2017	1.13	1.06	1.24	1.12
08/05/2017	1.09	1.01	1.20	1.04
09/05/2017	1.13	1.00	1.17	0.96
10/05/2017	1.19	1.02	1.15	1.07
11/05/2017	1.08	1.00	1.11	1.02
12/05/2017	1.17	1.06	1.16	1.06
13/05/2017	1.24	1.12	1.15	1.06
14/05/2017	1.13	1.07	1.06	0.99
15/05/2017	1.07	0.97	0.99	0.90
16/05/2017	1.03	0.98	0.98	0.92
17/05/2017	1.08	0.97	1.10	1.06
18/05/2017	1.07	0.98	1.10	1.05
19/05/2017	1.11	0.74	1.09	0.74
20/05/2017	1.34	1.22	1.42	1.24
21/05/2017	1.33	1.16	1.32	1.07
22/05/2017	1.19	1.12	1.13	1.06
23/05/2017	1.20	1.09	1.19	1.10
24/05/2017	1.17	1.03	1.12	1.02
25/05/2017	1.18	1.12	1.13	1.08
26/05/2017	1.23	1.17	1.19	1.09
27/05/2017	1.35	1.25	1.31	1.25
28/05/2017	1.20	1.03	1.21	1.02
29/05/2017	1.14	1.06	1.11	1.04
30/05/2017	1.20	1.09	1.14	1.07
31/05/2017	1.13	1.05	1.11	1.04

Total Number of Measurements, A: 21603 21600

Minimum Free Chlorine Standard: 0.5 0.5

Number of Measurements Meeting Standard, B: 21603 21600

COMPLIANCE, C = B/A X 100%: 100.00 100.00

File Path: N:\Water Treatment Branch\Administration\Reports\Regulatory Submissions\Chlorine\2017\05-May

Submitted By (Print): D.MerredewSignature: Original Signed by D.Merredew



CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT
ENVIRONMENTAL STANDARDS DIVISION

WATER TREATMENT PLANT CHLORINE GRAB MONITORING REPORT

Water System Code: 252.00	Deacon Booster Pumping Station Branch 1			Deacon Booster Pumping Station Branch 2		
Licence No. PWS-09-412-01	Date	Free Chlorine (mg/L)	Total Chlorine (mg/L)	Free Chlorine (mg/L)	Total Chlorine (mg/L)	
		Analyser	Grab	Grab	Analyser	Grab
01-May-2017	0.99	1.07	1.22	1.00	1.07	1.19
02-May-2017	0.97	1.05	1.21	0.97	1.06	1.20
03-May-2017	0.94	0.94	1.18	0.92	1.01	1.15
04-May-2017	0.94	0.99	1.16	0.91	0.87	1.11
05-May-2017	NS	NS	NS	NS	NS	NS
06-May-2017	NS	NS	NS	NS	NS	NS
07-May-2017	1.15	1.23	1.39	1.26	1.26	1.45
08-May-2017	1.10	1.18	1.40	1.14	1.23	1.38
09-May-2017	1.05	1.15	1.38	1.26	1.33	1.52
10-May-2017	1.28	1.22	1.37	1.15	1.24	1.36
11-May-2017	1.02	1.12	1.32	1.06	1.12	1.29
12-May-2017	NS	NS	NS	NS	NS	NS
13-May-2017	NS	NS	NS	NS	NS	NS
14-May-2017	1.14	1.18	1.39	1.07	1.16	1.32
15-May-2017	0.98	1.12	1.29	0.93	1.04	1.24
16-May-2017	1.03	1.14	1.31	1.01	1.04	1.27
17-May-2017	1.13	1.06	1.41	1.08	1.14	1.39
18-May-2017	1.09	1.17	1.29	1.10	1.19	1.40
19-May-2017	NS	NS	NS	NS	NS	NS
20-May-2017	NS	NS	NS	NS	NS	NS
21-May-2017	NR	1.25	1.46	NR	1.08	1.35
22-May-2017	1.21	1.26	1.45	1.14	1.15	1.36
23-May-2017	1.22	1.26	1.46	1.23	1.28	1.47
24-May-2017	1.17	1.20	1.38	1.13	1.21	1.40
25-May-2017	1.20	1.28	1.47	1.11	1.24	1.43
26-May-2017	NS	NS	NS	NS	NS	NS
27-May-2017	NS	NS	NS	NS	NS	NS
28-May-2017	1.17	1.25	1.39	1.18	1.28	1.41
29-May-2017	1.12	1.22	1.37	1.09	1.21	1.33
30-May-2017	1.22	1.25	1.48	1.18	1.23	1.39
31-May-2017	1.16	1.23	1.39	1.11	1.21	1.38
Total number of measurements taken, A:		23			23	
Chlorine Standard for Monitoring Location (mg/L):		0.50			0.50	
Number of measurements meeting standard, B:		23			23	
Compliance with Chlorine Standard, C= B/A X 100%:		100%			100%	

NS: No Sample NA: Not Analyzed NR: No Result OL: Off-Line

Comments:

There were no results for DBPS Branch I and II analyzers on May 21 due to maintenance requirements.

Report Compiled By: _____ H.Demchenko

Approved in LIMS By: _____ C.Diduck



Water and Waste Department • Service des eaux et des déchets

Monday, June 5, 2017

Our Incident/Report No: 02-2017

LIMS Reference No: 49651

Incident Date: May 31, 2017

Mr. Marc Balcaen
Drinking Water Officer
Manitoba Sustainable Development, Office of Drinking Water
1007 Century Street
Winnipeg MB R3H 0W4

RE: CORRECTIVE ACTION REPORT

WATER SYSTEM, CODE	Winnipeg Public Water System, 252.00
LOCATION OF NON-COMPLIANT INCIDENT	Winnipeg 3-Dist NE05
INCIDENT REPORTED BY	Courtney Diduck, Analytical Services Branch Head
TYPE OF NON-COMPLIANT INCIDENT	Low positive Total Coliform (<10 per100mL), 3 MR 41/2007
DESCRIPTION OF CORRECTIVE ACTIONS	<u>Environmental Standards:</u> AS SOON AS POSSIBLE: Re-sampled original location until two consecutive negative results were reported. Also tested for turbidity, free/total chlorine, temperature and contacted the ODW.
TEST RESULTS	See Attached

NOTES/COMMENTS:

1. UP/DOWN STREAM testing performed when EC is >0 /100mL, TC is >10 /100mL or when resample/consecutive sample is positive for EC or TC or as directed by the Manager of Environmental Standards Division and/or the Office of Drinking Water

EMERGENCY REPORTING IS REQUIRED WHERE A POTENTIAL HEALTH RISK IS INVOLVED. FOLLOW THE INSTRUCTIONS OF YOUR DRINKING WATER OFFICER ON SITUATIONS REQUIRING IMMEDIATE REPORTING

N:\Environmental Standards\Analytical Services\Government Agencies\Office of Drinking Water\Corrective Action Reports



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Sample Name	Sample Number	Date Sampled	bacColiEsch-QT (MPNU/100ml)	bacColiTotal-QT (MPNU/100mL)	bacHPC (cfu/mL)	Chlorine, Free (mg/L)	Chlorine, Total (mg/L)	Temperature (°C)	Turbidity-field (ntu)	Time Sampled (hrs)
NE05	511048	31-May-17	0	4	4	0.86	1.12	11.6	0.17	10:00
NE05_Resample	511851	01-Jun-17	0	0	<1	0.96	1.18	11.7	0.30	15:46
NE05_Resample Duplicate	511852	01-Jun-17	0	0	<1					
NE05_Resample 2	512051	02-Jun-17	0	0	1	0.89	1.15	12.4	0.52	15:28
NE05_Resample 2 Duplicate	512052	02-Jun-17	0	0	<1					

NOTES/COMMENTS:

1. All microbiological tests performed by contract laboratory.
2. N/R-No Result due to laboratory/analyst error.
3. N/A-Not Analyzed.