



Water and Waste Department • Service des eaux et des déchets

September 5, 2014

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

Melanie Betsill
Office of Drinking Water
Manitoba Conservation and Water Stewardship
1007 Century Street
Winnipeg, Manitoba
R3H 0W4

Dear Ms. Betsill:

**RE: AUGUST 2014 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 August 2014. We have also included a corrective action report for a positive total coliform in the distribution system.

The August 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 are in compliance with the licence requirements.

The August 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 have met the licence requirements.

The UV submission includes the summary report for August 2014 in accordance with Section 4.13, Table 2 of the Operating Licence. The UV licence requirement has been met for August.

On August 11, a positive total coliform result was reported for a routine sample [REDACTED]. On August 13, the location was resampled and results were reported to be negative. Our resampling also indicated that the chlorine levels at the location were normal and provided adequate disinfection.

Please let me know of any concerns or questions respecting this submission. I may be reached by telephone at 204-986-4807 or by e-mail at kkjartanson@winnipeg.ca.

Please note that I will be retiring from the City effective September 6, 2014. You will be advised of my replacement in due course.

Thank you for your on-going cooperation over the last several years.

Yours sincerely,

Original signed by: Renee Grosselle for:

K.J.T. Kjartanson, P.Eng.
Manager of Environmental Standards

KTJK:rg
Attachments

c:(e-mail)

Dr. L. Richards, Winnipeg Regional Health Authority
Dr. H. Chang, Winnipeg Regional Health Authority
Dr. S. Roberecki, Manitoba Health
D.P. Sacher, P.Eng
G. Patton, P.Eng.
T. Shanks, P.Eng.
A. J. Weremy, P.Eng.
C. Diduck

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CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT
WATER SERVICES

Water System Code: 252.00
 Licence Number: PWS-09-412 A

WATER TREATMENT PLANT TURBIDITY ON-LINE MONITORING REPORT

August 2014 Turbidity (NTU)		Filter #1		Filter #2		Filter #3		Filter #4		Filter #5		Filter #6		Filter #7		Filter #8	
Date	Raw Avg	Avg	Max	Avg	Max	Avg	Max	Avg	Max	Avg	Max	Avg	Max	Avg	Max	Avg	Max
1/08/2014	1.19	0.03	0.06	0.03	0.10	0.04	0.09	0.05	0.12	0.03	0.10	0.03	0.05	0.02	0.08	0.00	0.04
2/08/2014	1.23	0.03	0.10	0.03	0.05	0.01	0.02	0.03	0.11	0.05	0.07	0.03	0.08	0.02	0.07	0.00	0.02
3/08/2014	1.14	0.03	0.05	0.06	0.12	0.02	0.09	0.03	0.06	0.04	0.10	0.02	0.10	0.01	0.10	0.01	0.01
4/08/2014	1.17	0.03	0.09	0.05	0.12	0.01	0.09	0.05	0.11	0.03	0.10	0.02	0.08	0.02	0.04	0.00	0.02
5/08/2014	1.11	0.03	0.09	0.06	0.15	0.01	0.09	0.03	0.11	0.04	0.06	0.03	0.05	0.02	0.07	0.00	0.02
6/08/2014	1.11	0.03	0.09	0.07	0.10	0.01	0.02	0.03	0.11	0.05	0.11	0.03	0.09	0.02	0.09	0.00	0.06
7/08/2014	1.09	0.03	0.06	0.12	0.18	0.02	0.12	0.04	0.15	0.05	0.13	0.04	0.10	0.02	0.14	0.01	0.01
8/08/2014	1.18	0.06	0.11	0.05	0.23	0.03	0.14	0.05	0.09	0.05	0.16	0.04	0.17	0.03	0.14	0.01	0.09
9/08/2014	1.24	0.05	0.13	0.03	0.11	0.03	0.14	0.06	0.15	0.05	0.16	0.04	0.07	0.04	0.06	0.01	0.10
10/08/2014	1.50	0.05	0.10	0.04	0.12	0.03	0.15	0.05	0.17	0.06	0.09	0.06	0.15	0.04	0.13	0.01	0.11
11/08/2014	1.53	0.05	0.15	0.04	0.07	0.04	0.06	0.05	0.15	0.08	0.18	0.06	0.17	0.04	0.16	0.01	0.12
12/08/2014	1.41	0.04	0.14	0.04	0.09	0.02	0.14	0.04	0.09	0.05	0.18	0.04	0.18	0.04	0.14	0.01	0.02
13/08/2014	1.37	0.05	0.13	0.02	0.10	0.02	0.14	0.04	0.07	0.04	0.15	0.03	0.08	0.03	0.12	0.01	0.09
14/08/2014	1.37	0.04	0.12	0.02	0.10	0.02	0.12	0.05	0.15	0.04	0.08	0.04	0.12	0.03	0.05	0.01	0.09
15/08/2014	1.47	0.04	0.14	0.03	0.10	0.02	0.11	0.04	0.14	0.06	0.08	0.05	0.07	0.04	0.13	0.01	0.10
16/08/2014	1.53	0.04	0.09	0.03	0.05	0.03	0.05	0.04	0.15	0.07	0.15	0.05	0.15	0.04	0.13	0.02	0.12
17/08/2014	1.62	0.04	0.13	0.04	0.10	0.03	0.12	0.04	0.13	0.06	0.16	0.04	0.15	0.04	0.09	0.03	0.05
18/08/2014	1.67	0.07	0.09	0.04	0.10	0.03	0.12	0.05	0.08	0.06	0.16	0.05	0.16	0.04	0.15	0.05	0.13
19/08/2014	1.62	0.07	0.15	0.04	0.12	0.03	0.14	0.07	0.16	0.06	0.19	0.05	0.15	0.05	0.08	0.06	0.17
20/08/2014	1.60	0.06	0.16	0.03	0.11	0.02	0.14	0.05	0.18	0.06	0.10	0.06	0.09	0.04	0.14	0.06	0.19
21/08/2014	1.81	0.06	0.16	0.04	0.08	0.02	0.07	0.04	0.16	0.06	0.22	0.04	0.16	0.03	0.14	0.04	0.11
22/08/2014	1.97	0.06	0.09	0.03	0.05	0.02	0.11	0.03	0.16	0.05	0.18	0.05	0.15	0.03	0.14	0.01	0.02
23/08/2014	2.30	0.07	0.17	0.02	0.14	0.02	0.14	0.06	0.08	0.04	0.22	0.05	0.08	0.04	0.06	0.01	0.13
24/08/2014	2.44	0.05	0.17	0.02	0.04	0.02	0.04	0.04	0.17	0.07	0.09	0.06	0.16	0.04	0.16	0.00	0.11
25/08/2014	2.64	0.06	0.09	0.03	0.12	0.03	0.12	0.04	0.16	0.04	0.21	0.04	0.16	0.03	0.12	0.01	0.01
26/08/2014	2.51	0.07	0.16	0.02	0.11	0.02	0.13	0.06	0.09	0.04	0.18	0.04	0.11	0.04	0.06	0.01	0.10
27/08/2014	2.58	0.02	0.10	0.01	0.09	0.01	0.02	0.03	0.14	0.04	0.07	0.05	0.14	0.04	0.12	0.00	0.08
28/08/2014	2.64	0.01	0.09	0.01	0.03	0.02	0.11	0.03	0.13	0.04	0.16	0.04	0.13	0.03	0.11	0.00	0.01
29/08/2014	2.78	0.04	0.14	0.01	0.10	0.03	0.14	0.03	0.21	0.04	0.15	0.04	0.15	0.03	0.08	0.01	0.09
30/08/2014	2.83	0.06	0.13	0.01	0.09	0.02	0.05	0.03	0.17	0.05	0.07	0.06	0.08	0.03	0.12	0.00	0.08
31/08/2014	2.81	0.05	0.18	0.02	0.04	0.05	0.12	0.03	0.18	0.05	0.17	0.05	0.16	0.03	0.13	0.01	0.01

Total Number of Measurements Taken, A:	14265	14264	14049	11637	14673	14655	13540	14171
Turbidity Standard for Monitoring Location (NTU):	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
Number of Measurements Meeting Standard, B:	14265	14264	14049	11637	14673	14655	13540	14171
Compliance with Turbidity Standard, C = B/A X 100%:	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

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Submitted By (Print) D.Minor

Signature Original signed by D.Minor



CITY OF WINNIPEG
 WATER AND WASTE DEPARTMENT
 ENVIRONMENTAL STANDARDS DIVISION

WATER TREATMENT PLANT TURBIDITY GRAB MONITORING REPORT

Water System Code: 252.00 Licence No. PWS-09-412 A	Turbidity (NTU)								
	Date	Raw Water	Filter 1	Filter 2	Filter 3	Filter 4	Filter 5	Filter 6	Filter 7
01-Aug-2014	0.99	0.09	0.11	0.06	0.08	0.05	0.08	0.08	0.07
02-Aug-2014	NS	NS	NS	NS	NS	NS	NS	NS	NS
03-Aug-2014	NS	NS	NS	NS	NS	NS	NS	NS	NS
04-Aug-2014	1.06	0.07	0.08	0.12	0.07	0.06	0.06	0.08	0.08
05-Aug-2014	1.07	0.12	0.06	0.06	0.12	0.05	0.06	0.05	0.06
06-Aug-2014	1.18	0.08	<0.05	0.07	0.07	0.05	0.07	0.15	0.06
07-Aug-2014	1.16	0.06	0.10	0.10	0.09	0.06	0.09	0.09	0.10
08-Aug-2014	1.10	0.12	0.14	0.12	0.09	0.11	0.09	0.08	0.11
09-Aug-2014	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-Aug-2014	NS	NS	NS	NS	NS	NS	NS	NS	NS
11-Aug-2014	1.08	0.08	0.09	0.10	0.13	0.08	0.11	0.11	0.08
12-Aug-2014	1.43	0.09	0.09	0.10	0.07	0.10	0.09	0.07	0.09
13-Aug-2014	1.29	0.08	0.09	0.10	0.06	0.09	0.06	0.06	0.06
14-Aug-2014	1.14	0.10	0.10	0.07	0.11	0.05	0.07	0.07	0.08
15-Aug-2014	1.31	0.09	0.06	0.07	0.10	0.07	0.09	0.07	0.06
16-Aug-2014	NS	NS	NS	NS	NS	NS	NS	NS	NS
17-Aug-2014	NS	NS	NS	NS	NS	NS	NS	NS	NS
18-Aug-2014	1.38	0.08	0.11	0.11	0.08	0.12	0.08	0.07	0.08
19-Aug-2014	1.57	0.10	0.11	0.13	0.13	0.08	0.08	0.08	0.10
20-Aug-2014	1.29	0.11	0.07	0.08	0.13	0.06	0.07	0.10	0.12
21-Aug-2014	1.33	0.13	0.09	0.09	0.12	0.08	0.11	0.10	0.07
22-Aug-2014	1.51	0.09	0.09	0.11	0.09	0.13	0.11	0.08	0.08
23-Aug-2014	NS	NS	NS	NS	NS	NS	NS	NS	NS
24-Aug-2014	NS	NS	NS	NS	NS	NS	NS	NS	NS
25-Aug-2014	2.44	0.09	0.10	0.10	0.08	0.11	0.11	0.09	0.08
26-Aug-2014	1.92	0.09	0.11	0.15	0.09	0.08	0.08	0.08	0.10
27-Aug-2014	2.11	0.08	0.07	0.08	0.10	0.07	0.07	0.08	0.07
28-Aug-2014	2.58	0.07	0.08	0.09	0.07	0.08	0.10	0.10	0.08
29-Aug-2014	2.12	0.07	0.09	0.08	0.07	0.09	0.06	0.07	0.08
30-Aug-2014	NS	NS	NS	NS	NS	NS	NS	NS	NS
31-Aug-2014	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total number of measurements taken, A:		21	21	21	21	21	21	21	21
Turbidity Standard for Monitoring Location (NTU):		0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
Number of measurements meeting standard, B:		21	21	21	21	21	21	21	21
Compliance with Turbidity Standard, C= B/A X 100%:		100%	100%	100%	100%	100%	100%	100%	100%

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

Comments:

Report Compiled By: H.Demchenko

Approved in LIMS By: S.Fletcher/ A.Vanderstel

Date Approved: 3-Sep-14



WATER TREATMENT PLANT FREE CHLORINE ON-LINE MONITORING REPORT
Deacon Booster Pumping Station

Water System Code: **252.00**
Licence Number: **PWS-09-412 A**
Report Created: **01 September 2014**

Report Period: **August 2014**

Date	BRANCH 1 [mg/L]		BRANCH 2 [mg/L]	
	Average	Minimum	Average	Minimum
01/08/2014	1.24	1.14	1.25	1.08
02/08/2014	1.19	1.09	1.25	1.12
03/08/2014	1.23	1.11	1.28	1.17
04/08/2014	1.27	1.12	1.29	1.14
05/08/2014	1.21	1.10	1.13	1.04
06/08/2014	1.26	1.06	1.21	0.95
07/08/2014	1.40	1.15	1.29	1.21
08/08/2014	1.37	0.95	1.37	1.23
09/08/2014	1.33	1.17	1.31	1.22
10/08/2014	1.23	1.16	1.25	1.14
11/08/2014	1.39	1.23	1.38	1.23
12/08/2014	1.36	1.28	1.37	1.25
13/08/2014	1.32	1.21	1.31	1.15
14/08/2014	1.36	1.26	1.27	1.19
15/08/2014	1.43	1.30	1.37	1.24
16/08/2014	1.33	1.25	1.30	1.21
17/08/2014	1.28	1.13	1.43	1.37
18/08/2014	1.31	1.13	1.37	1.05
19/08/2014	1.42	1.21	1.40	1.26
20/08/2014	1.29	1.12	1.25	1.09
21/08/2014	1.23	1.10	1.29	1.14
22/08/2014	1.41	1.16	1.51	1.20
23/08/2014	1.20	1.05	1.27	1.08
24/08/2014	1.21	1.12	1.25	1.17
25/08/2014	1.31	1.13	1.30	1.16
26/08/2014	1.42	1.27	1.48	1.29
27/08/2014	1.43	1.29	1.54	1.36
28/08/2014	1.48	0.82	1.48	0.74
29/08/2014	1.38	0.96	1.38	0.81
30/08/2014	1.33	1.24	1.40	1.21
31/08/2014	1.38	1.29	1.44	1.34

Total Number of Measurements, A:	21599	21597
Minimum Free Chlorine Standard:	0.50	0.50
Number of Measurements Meeting Standard, B:	21599	21597

COMPLIANCE, C = B/A X 100%:	100	100
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Submitted By (Print): D.Minor

Signature: Original signed by D.Minor



CITY OF WINNIPEG
 WATER AND WASTE DEPARTMENT
 ENVIRONMENTAL STANDARDS DIVISION

WATER TREATMENT PLANT CHLORINE GRAB MONITORING REPORT

Water System Code: 252.00 Licence No. PWS-09-412 A	Deacon Booster Pumping Station Branch 1		Deacon Booster Pumping Station Branch 2	
	Free Chlorine (mg/L)	Total Chlorine (mg/L)	Free Chlorine (mg/L)	Total Chlorine (mg/L)
Date				
01-Aug-2014	1.32	1.46	1.32	1.49
02-Aug-2014	NS	NS	NS	NS
03-Aug-2014	NS	NS	NS	NS
04-Aug-2014	1.28	1.41	1.32	1.48
05-Aug-2014	1.16	1.33	1.15	1.39
06-Aug-2014	1.27	1.42	1.29	1.46
07-Aug-2014	1.28	1.45	1.30	1.51
08-Aug-2014	1.39	1.55	1.32	1.53
09-Aug-2014	NS	NS	NS	NS
10-Aug-2014	NS	NS	NS	NS
11-Aug-2014	1.38	1.51	1.40	1.53
12-Aug-2014	1.43	1.60	1.42	1.61
13-Aug-2014	1.39	1.54	1.36	1.56
14-Aug-2014	1.44	1.57	1.35	1.52
15-Aug-2014	1.53	1.69	1.48	1.66
16-Aug-2014	NS	NS	NS	NS
17-Aug-2014	NS	NS	NS	NS
18-Aug-2014	1.38	1.57	1.48	1.67
19-Aug-2014	1.35	1.55	1.43	1.65
20-Aug-2014	1.41	1.64	1.38	1.63
21-Aug-2014	1.27	1.42	1.34	1.54
22-Aug-2014	1.24	1.44	1.33	1.52
23-Aug-2014	NS	NS	NS	NS
24-Aug-2014	NS	NS	NS	NS
25-Aug-2014	1.35	1.55	1.35	1.59
26-Aug-2014	1.40	1.63	1.48	1.67
27-Aug-2014	1.64	1.77	1.59	1.83
28-Aug-2014	1.56	1.66	1.67	1.80
29-Aug-2014	1.49	1.68	1.57	1.73
30-Aug-2014	NS	NS	NS	NS
31-Aug-2014	NS	NS	NS	NS
Total number of measurements taken, A:	21		21	
Chlorine Standard for Monitoring Location (mg/L):	0.50		0.50	
Number of measurements meeting standard, B:	21		21	
Compliance with Chlorine Standard, C= B/A X 100%:	100%		100%	

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

Comments:

Report Compiled By: H.Demchenko

Approved in LIMS By: S.Fletcher/ A.Vanderstel



Water and Waste Department • Service des eaux et des déchets

Friday, September 5, 2014

Our Incident/Report No: 02-2014

LIMS Reference No: 40081

Ms. Melanie Betsill
Drinking Water Officer
Manitoba Water Stewardship, Office of Drinking Water
1007 Century Street
Winnipeg MB R3H 0W4

RE: CORRECTIVE ACTION REPORT

WATER SYSTEM	Winnipeg Public Water System
WATER SYSTEM CODE	252.00
LOCATION OF NON-COMPLIANT INCIDENT	Winnipeg 4-Dist SW03
OPERATOR IN CHARGE	NA
INCIDENT REPORTED BY	Gerry Levesque, acting Supervisor of Analytical Services Branch
TYPE OF NON-COMPLIANT INCIDENT	Low positive total coliform (<10 per100mL), 3 MR 41/2007
INCIDENT DATE	August 11, 2014
DESCRIPTION OF CORRECTIVE ACTIONS	AS SOON AS POSSIBLE: Resampled original location, also tested for turbidity, free/total chlorine, temperature and contacted the ODW.
TEST RESULTS	See Attached Report

NOTES/COMMENTS:

1. All microbiological tests performed by contract laboratory.
2. 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
3. INITIAL chlorine, turbidity and temperature only tested at the required 39 sample locations.
4. NR-No Result due to laboratory/analyst error.
5. NA-Not Analyzed.

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

DISTRIBUTION

FORWARD THE ORIGINAL TO THE DRINKING WATER OFFICER WITH THE MONTHLY COMPLIANCE SUBMISSIONS.

Contact the Drinking Water Officer for any comments, questions or concerns

REFERENCE: ODW-RF-016

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Environmental Standards Division • Division des normes environnementales
2230 Main Street • 2230, rue Main • Winnipeg • Manitoba R2V 4T8
fax/téléc. (204) 339-2147 • www.winnipeg.ca

Sample Name	Sample Number	Date Sampled	E. Coli-QT (MPNU/100 mL)	Total Coliform-QT (MPNU/100 mL)	HPC (cfu/mL)	Chlorine, Free (mg/L)	Chlorine, Total (mg/L)	Temperature (°C)	TimeSpeld (hrs)	Turbidity (ntu)
SW03_ [REDACTED]	405523	11-Aug-14	<1	2	10	0.59	0.79	13.5	13:04	0.17
SW03_ [REDACTED]	406083	13-Aug-14	<1	<1	<10	0.62	0.81	13.5	10:44	0.14