



Water and Waste Department • Service des eaux et des déchets

February 6, 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: JANUARY 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 January 2014. There are no corrective action reports to be submitted for January 2014.

The January 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 January 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 January 2014 in accordance with Section 4.13, Table 2 of the Operating Licence. The UV licence requirement has been met for January.

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 kjartanson@winnipeg.ca.

Thanks for your ongoing cooperation and understanding in this matter.

Yours sincerely,

Original signed by:

K.J.T. Kjartanson, P.Eng.
Manager of Environmental Standards
KJTK:rg
Attachments

c:(e-mail)

Dr. L. Richards, Winnipeg Regional Health Authority
D.P. Sacher, P.Eng.
A. J. Weremy, P.Eng.

G. Patton, P.Eng.
S. Fletcher

Dr. S. Roberecki, Manitoba Health
T. Josephson, P.Eng.

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CITY OF WINNIPEG
 WATER AND WASTE DEPARTMENT
 ENVIRONMENTAL STANDARDS DIVISION

WATER TREATMENT PLANT TURBIDITY GRAB MONITORING REPORT

Water System Code: 252.00	Turbidity (NTU)								
Licence No. PWS-09-412 A	Raw Water	Filter 1	Filter 2	Filter 3	Filter 4	Filter 5	Filter 6	Filter 7	Filter 8
Date	Raw Water	Filter 1	Filter 2	Filter 3	Filter 4	Filter 5	Filter 6	Filter 7	Filter 8
01-Jan-2014	0.52	0.17	0.17	0.14	0.23	0.12	0.11	0.10	0.11
02-Jan-2014	0.45	0.14	0.12	0.17	0.14	0.15	0.09	0.12	0.14
03-Jan-2014	0.51	0.10	0.16	0.09	0.13	0.12	0.10	0.09	0.14
04-Jan-2014	NS	NS	NS	NS	NS	NS	NS	NS	NS
05-Jan-2014	NS	NS	NS	NS	NS	NS	NS	NS	NS
06-Jan-2014	0.74	0.15	0.18	0.11	0.11	0.10	0.12	0.10	0.11
07-Jan-2014	0.45	0.15	0.13	0.18	0.11	0.17	0.07	0.14	0.14
08-Jan-2014	0.45	0.13	0.15	0.11	0.17	0.20	0.20	0.11	0.12
09-Jan-2014	1.01	0.10	0.10	0.15	0.10	0.10	0.12	0.14	0.12
10-Jan-2014	0.54	0.07	0.08	0.17	0.15	0.08	0.09	0.09	0.19
11-Jan-2014	NS	NS	NS	NS	NS	NS	NS	NS	NS
12-Jan-2014	NS	NS	NS	NS	NS	NS	NS	NS	NS
13-Jan-2014	0.48	0.10	0.12	0.10	0.15	0.07	0.09	0.08	0.08
14-Jan-2014	0.50	0.15	0.14	0.13	0.10	0.11	0.17	0.15	0.12
15-Jan-2014	0.48	0.12	0.12	0.17	0.14	0.09	0.09	0.13	0.20
16-Jan-2014	0.44	0.18	0.19	0.11	0.10	0.14	0.13	0.12	0.11
17-Jan-2014	0.41	0.13	0.15	0.18	0.12	0.18	0.14	0.18	0.15
18-Jan-2014	NS	NS	NS	NS	NS	NS	NS	NS	NS
19-Jan-2014	NS	NS	NS	NS	NS	NS	NS	NS	NS
20-Jan-2014	0.55	0.10	0.14	0.14	0.17	0.12	0.09	0.10	0.19
21-Jan-2014	1.63	0.18	0.20	0.15	0.11	0.11	0.20	0.16	0.18
22-Jan-2014	1.25	0.14	0.12	0.20	0.15	0.15	0.12	0.14	0.18
23-Jan-2014	0.90	0.17	0.19	0.13	0.16	0.13	0.15	0.11	0.13
24-Jan-2014	0.84	0.19	0.12	0.15	0.13	0.17	0.18	0.19	0.15
25-Jan-2014	NS	NS	NS	NS	NS	NS	NS	NS	NS
26-Jan-2014	NS	NS	NS	NS	NS	NS	NS	NS	NS
27-Jan-2014	0.77	0.10	0.10	0.13	0.12	0.13	0.11	0.11	0.15
28-Jan-2014	0.71	0.17	0.12	OL	0.14	0.10	0.11	0.10	OL
29-Jan-2014	0.77	0.14	0.12	0.14	0.13	0.19	0.13	0.13	0.15
30-Jan-2014	0.78	0.28	0.09	0.28	0.22	0.29	0.12	0.20	0.17
31-Jan-2014	0.67	0.16	0.11	0.12	0.19	0.10	0.11	0.12	0.20
Total number of measurements taken, A:	23	23	22	23	23	23	23	23	22
Turbidity Standard for Monitoring Location (NTU):	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
Number of measurements meeting standard, B:	23	23	22	23	23	23	23	23	22
Compliance with Turbidity Standard, C= B/A X 100%:	100%	100%	100%	100%	100%	100%	100%	100%	100%

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

Comments:

Report Compiled By: K. Wazny

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

Date Approved: 3-Feb-14



CITY OF WINNIPEG
 WATER AND WASTE DEPARTMENT
 WATER SERVICES DIVISION

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

WATER TREATMENT PLANT TURBIDITY ON-LINE MONITORING REPORT

January 2014 Turbidity (NTU)

Date	Raw	Filter #1		Filter #2		Filter #3		Filter #4		Filter #5		Filter #6		Filter #7		Filter #8	
	Avg	Avg	Max	Avg	Max	Avg	Max	Avg	Max	Avg	Max	Avg	Max	Avg	Max	Avg	Max
1/01/2014	0.50	0.08	0.20	0.07	0.20	0.06	0.09	0.06	0.22	0.08	0.11	0.06	0.13	0.06	0.11	0.01	0.02
2/01/2014	0.50	0.07	0.11	0.09	0.11	0.09	0.19	0.07	0.22	0.06	0.16	0.04	0.15	0.03	0.14	0.03	0.18
3/01/2014	0.49	0.10	0.21	0.12	0.23	0.03	0.16	0.05	0.17	0.06	0.10	0.05	0.09	0.04	0.07	0.02	0.13
4/01/2014	0.48	0.06	0.18	0.06	0.11	0.06	0.10	0.05	0.07	0.08	0.16	0.04	0.12	0.04	0.13	0.01	0.03
5/01/2014	0.45	0.09	0.11	0.11	0.18	0.04	0.15	0.08	0.15	0.04	0.15	0.04	0.06	0.03	0.05	0.02	0.20
6/01/2014	0.43	0.06	0.16	0.07	0.19	0.05	0.06	0.04	0.16	0.07	0.09	0.06	0.12	0.05	0.12	0.01	0.02
7/01/2014	0.44	0.06	0.09	0.11	0.13	0.07	0.16	0.06	0.09	0.05	0.15	0.03	0.12	0.03	0.11	0.02	0.13
8/01/2014	0.45	0.10	0.17	0.13	0.20	0.04	0.16	0.05	0.16	0.05	0.08	0.05	0.08	0.04	0.05	0.02	0.21
9/01/2014	0.45	0.06	0.19	0.09	0.24	0.07	0.10	0.05	0.07	0.09	0.16	0.04	0.13	0.05	0.12	0.02	0.04
10/01/2014	0.44	0.07	0.09	0.07	0.17	0.03	0.12	0.05	0.17	0.04	0.12	0.03	0.19	0.02	0.08	0.01	0.18
11/01/2014	0.44	0.05	0.14	0.03	0.10	0.03	0.04	0.03	0.12	0.07	0.09	0.05	0.09	0.04	0.07	0.00	0.01
12/01/2014	0.45	0.05	0.08	0.04	0.05	0.05	0.12	0.05	0.07	0.05	0.13	0.03	0.10	0.02	0.09	0.01	0.12
13/01/2014	0.44	0.08	0.14	0.05	0.10	0.03	0.12	0.04	0.12	0.05	0.08	0.04	0.06	0.03	0.04	0.01	0.17
14/01/2014	0.45	0.05	0.16	0.03	0.12	0.06	0.10	0.04	0.06	0.09	0.14	0.04	0.12	0.05	0.10	0.01	0.02
15/01/2014	0.46	0.09	0.10	0.06	0.10	0.05	0.19	0.07	0.16	0.05	0.17	0.05	0.06	0.03	0.05	0.02	0.18
16/01/2014	0.46	0.06	0.17	0.04	0.14	0.05	0.09	0.04	0.14	0.08	0.11	0.07	0.14	0.06	0.12	0.01	0.02
17/01/2014	0.45	0.06	0.10	0.05	0.07	0.07	0.17	0.06	0.09	0.06	0.17	0.04	0.15	0.04	0.13	0.03	0.20
18/01/2014	0.44	0.10	0.18	0.09	0.13	0.04	0.17	0.05	0.14	0.06	0.10	0.06	0.08	0.05	0.06	0.02	0.21
19/01/2014	0.43	0.05	0.17	0.04	0.11	0.03	0.07	0.04	0.07	0.09	0.20	0.03	0.15	0.05	0.13	0.02	0.04
20/01/2014	0.37	0.07	0.08	0.05	0.08	0.01	0.10	0.05	0.11	0.04	0.14	0.03	0.05	0.02	0.12	0.03	0.17
21/01/2014	1.17	0.08	0.18	0.06	0.16	0.03	0.08	0.05	0.23	0.08	0.11	0.11	0.14	0.08	0.10	0.02	0.06
22/01/2014	1.05	0.08	0.17	0.08	0.16	0.06	0.26	0.10	0.19	0.06	0.20	0.06	0.16	0.04	0.14	0.07	0.23
23/01/2014	0.83	0.09	0.16	0.08	0.13	0.02	0.12	0.06	0.15	0.04	0.07	0.09	0.13	0.05	0.07	0.03	0.27
24/01/2014	0.77	0.06	0.14	0.05	0.15	0.04	0.07	0.05	0.08	0.08	0.15	0.06	0.16	0.04	0.12	0.03	0.05
25/01/2014	0.76	0.07	0.09	0.09	0.10	0.03	0.10	0.09	0.14	0.05	0.14	0.06	0.09	0.04	0.13	0.06	0.25
26/01/2014	0.72	0.09	0.17	0.05	0.17	0.02	0.05	0.05	0.16	0.05	0.08	0.09	0.17	0.05	0.08	0.03	0.23
27/01/2014	0.72	0.04	0.14	0.05	0.08	0.03	0.11	0.06	0.08	0.06	0.12	0.05	0.14	0.03	0.10	0.03	0.06
28/01/2014	0.72	0.07	0.10	0.08	0.14	0.02	0.10	0.08	0.14	0.03	0.12	0.06	0.08	0.03	0.05	0.03	0.21
29/01/2014	0.72	0.05	0.14	0.05	0.14	0.01	0.03	0.04	0.13	0.05	0.08	0.08	0.14	0.05	0.11	0.01	0.15
30/01/2014	0.72	0.04	0.15	0.05	0.08	0.03	0.09	0.06	0.08	0.04	0.11	0.05	0.14	0.03	0.10	0.03	0.09
31/01/2014	0.71	0.07	0.11	0.08	0.14	0.02	0.11	0.08	0.14	0.03	0.12	0.06	0.09	0.03	0.05	0.02	0.21

Total Number of Measurements Taken, A:	14208	13949	14145	10762	14680	14746	12999	14505
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:	14208	13949	14145	10762	14680	14746	12999	14505
Compliance with Turbidity Standard, C = B/A X 100%:	100%	100%	100%	100%	100%	100%	100%	100%

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Submitted By (Print): D.Merredew

Signature: Original signed by D.Merredew



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 A	Free Chlorine (mg/L)	Total Chlorine (mg/L)	Free Chlorine (mg/L)	Total Chlorine (mg/L)
Date				
01-Jan-2014	1.04	1.24	1.07	1.26
02-Jan-2014	0.99	1.22	1.05	1.20
03-Jan-2014	0.96	1.15	0.99	1.14
04-Jan-2014	NS	NS	NS	NS
05-Jan-2014	NS	NS	NS	NS
06-Jan-2014	1.10	1.35	1.21	1.45
07-Jan-2014	1.06	1.21	1.02	1.27
08-Jan-2014	0.99	1.19	1.09	1.19
09-Jan-2014	1.03	1.20	0.98	1.07
10-Jan-2014	1.02	1.22	1.05	1.18
11-Jan-2014	NS	NS	NS	NS
12-Jan-2014	NS	NS	NS	NS
13-Jan-2014	0.98	1.20	0.95	1.20
14-Jan-2014	0.93	1.13	0.95	1.17
15-Jan-2014	1.12	1.21	1.04	1.12
16-Jan-2014	1.06	1.24	1.09	1.21
17-Jan-2014	1.15	1.30	1.15	1.26
18-Jan-2014	NS	NS	NS	NS
19-Jan-2014	NS	NS	NS	NS
20-Jan-2014	1.07	1.29	1.06	1.23
21-Jan-2014	0.98	1.16	0.88	1.13
22-Jan-2014	1.30	1.44	1.30	1.42
23-Jan-2014	1.32	1.63	1.47	1.64
24-Jan-2014	1.14	1.34	1.13	1.26
25-Jan-2014	NS	NS	NS	NS
26-Jan-2014	NS	NS	NS	NS
27-Jan-2014	1.31	1.55	1.27	1.50
28-Jan-2014	1.29	1.57	1.31	1.50
29-Jan-2014	1.31	1.48	1.37	1.50
30-Jan-2014	1.41	1.56	1.26	1.52
31-Jan-2014	1.42	1.69	1.46	1.58
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 OL: Off-Line

Comments:

Report Compiled By: K. Wazny

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



City of Winnipeg

Water and Waste Department
Water Services Division

**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 February 2014

Report Period: January 2014

Date	BRANCH 1 [mg/L]		BRANCH 2 [mg/L]	
	Average	Minimum	Average	Minimum
01/01/2014	0.95	0.89	0.95	0.85
02/01/2014	0.96	0.91	0.92	0.86
03/01/2014	0.93	0.76	0.91	0.74
04/01/2014	1.00	0.93	0.97	0.92
05/01/2014	0.98	0.88	0.98	0.83
06/01/2014	1.12	1.05	1.19	1.09
07/01/2014	1.04	0.72	1.02	0.93
08/01/2014	1.13	1.01	1.00	0.92
09/01/2014	1.17	0.99	0.94	0.88
10/01/2014	1.06	0.96	1.00	0.87
11/01/2014	0.98	0.82	1.03	0.97
12/01/2014	0.99	0.83	1.02	0.92
13/01/2014	0.95	0.85	0.93	0.86
14/01/2014	0.90	0.86	0.92	0.85
15/01/2014	0.96	0.79	0.92	0.86
16/01/2014	1.09	0.92	0.96	0.89
17/01/2014	1.19	1.06	1.00	0.92
18/01/2014	1.20	1.04	0.99	0.85
19/01/2014	1.15	1.09	1.04	0.94
20/01/2014	1.05	0.91	1.00	0.88
21/01/2014	0.91	0.58	0.91	0.55
22/01/2014	1.38	1.19	1.30	1.18
23/01/2014	1.34	1.14	1.28	1.10
24/01/2014	1.12	0.98	1.02	0.88
25/01/2014	1.09	1.03	1.00	0.95
26/01/2014	1.01	0.91	1.00	0.89
27/01/2014	1.10	0.95	1.12	0.99
28/01/2014	1.13	1.05	1.15	1.05
29/01/2014	1.20	1.06	1.16	1.08
30/01/2014	1.25	1.18	1.14	1.08
31/01/2014	1.31	1.16	1.27	1.09

Total Number of Measurements, A:	21599	25199
Minimum Free Chlorine Standard:	0.50	0.50
Number of Measurements Meeting Standard, B:	21599	21599
COMPLIANCE, C = B/A X 100%:	100	100

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Submitted By (Print): D.Merredew

Signature: Original signed by D.Merredew

