



## Water and Waste Eaux et déchets

Kale Black, Sr. Drinking Water Officer  
Office of Drinking Water, Manitoba Conservation and Climate  
309 – 25 Tupper Street North  
Portage La Prairie, MB R1N 3K1

**March 7, 2024**

**RE: FEBRUARY 2024 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 February 2024.

The on-line and grab sampling turbidity reports include results obtained for the Water Treatment Plant raw water and the eight filters. On February 28, the turbidity on Filter 8 exceeded 1.00 NTU, the elevated turbidity reading was caused by analyzer maintenance; additional information is provided in CAR-01-2024. The turbidity results for the filter effluent met the licence requirements.

The 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.

The 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 can be reached by telephone at 204-986-8359 or by e-mail at rgrosselle@winnipeg.ca.

Yours sincerely,

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. T. Hilderman, Manitoba Health and Seniors Care (email)  
T. Shanks, M. Eng., P. Eng. (email)  
M. Szmon, P. Eng. (email)  
H. Buhler, P. Eng. (email)  
L. McCusker, P. Eng. (email)  
C. Diduck (email)



**CITY OF WINNIPEG**  
WATER AND WASTE DEPARTMENT  
WATER SERVICES

Water System Code: 252.00

Licence Number: PWS-09-412-02-A

WATER TREATMENT PLANT TURBIDITY ON-LINE MONITORING REPORT

February 2024 Turbidity (NTU)		Raw		Filter #1		Filter #2		Filter #3		Filter #4		Filter #5		Filter #6		Filter #7		Filter #8	
Date	Avg	Avg	Avg	Max															
1/02/2024	0.49	0.06	0.13	0.08	0.18	0.02	0.09	0.08	0.16	0.05	0.14	0.03	0.05	0.03	0.10	0.02	0.06		
2/02/2024	0.50	0.08	0.13	0.03	0.06	0.04	0.10	0.03	0.06	0.03	0.07	0.03	0.04	0.01	0.04	0.01	0.04		
3/02/2024	0.48	0.09	0.11	0.02	0.08	0.03	0.09	0.03	0.06	0.02	0.07	0.03	0.06	0.01	0.03	0.01	0.03		
4/02/2024	0.48	0.07	0.13	0.02	0.06	0.03	0.09	0.02	0.07	0.03	0.05	0.02	0.05	0.01	0.01	0.01	0.03		
5/02/2024	0.48	0.07	0.12	0.02	0.05	0.02	0.07	0.02	0.05	0.02	0.05	0.02	0.05	0.01	0.03	0.00	0.01		
6/02/2024	0.48	0.07	0.12	0.02	0.07	0.03	0.05	0.02	0.06	0.02	0.06	0.02	0.04	0.01	0.02	0.01	0.03		
7/02/2024	0.48	0.07	0.10	0.02	0.06	0.03	0.07	0.02	0.04	0.02	0.06	0.03	0.06	0.01	0.03	0.02	0.05		
8/02/2024	0.46	0.08	0.12	0.02	0.06	0.03	0.08	0.02	0.06	0.02	0.04	0.02	0.05	0.01	0.03	0.03	0.08		
9/02/2024	0.47	0.07	0.12	0.02	0.04	0.02	0.07	0.02	0.05	0.02	0.06	0.02	0.06	0.01	0.02	0.03	0.07		
10/02/2024	0.45	0.07	0.12	0.02	0.06	0.02	0.05	0.02	0.05	0.02	0.05	0.02	0.05	0.01	0.03	0.03	0.07		
11/02/2024	0.45	0.07	0.09	0.02	0.06	0.02	0.06	0.01	0.03	0.02	0.05	0.02	0.05	0.01	0.03	0.03	0.07		
12/02/2024	0.45	0.09	0.12	0.02	0.07	0.02	0.06	0.01	0.06	0.02	0.04	0.02	0.05	0.01	0.01	0.02	0.07		
13/02/2024	0.46	0.08	0.12	0.03	0.05	0.02	0.08	0.02	0.16	0.02	0.04	0.02	0.04	0.01	0.02	0.02	0.04		
14/02/2024	0.46	0.08	0.14	0.05	0.10	0.06	0.08	0.02	0.07	0.02	0.06	0.01	0.03	0.01	0.02	0.00	0.02		
15/02/2024	0.64	0.05	0.08	0.06	0.14	0.06	0.12	0.04	0.06	0.03	0.05	0.02	0.06	0.01	0.04	0.00	0.03		
16/02/2024	0.53	0.05	0.10	0.06	0.08	0.06	0.12	0.04	0.08	0.04	0.06	0.02	0.04	0.01	0.02	0.00	0.02		
17/02/2024	0.49	0.05	0.09	0.07	0.11	0.06	0.10	0.04	0.08	0.03	0.07	0.02	0.04	0.01	0.03	0.01	0.01		
18/02/2024	0.50	0.05	0.07	0.06	0.11	0.08	0.12	0.04	0.09	0.03	0.06	0.02	0.03	0.01	0.03	0.00	0.02		
19/02/2024	0.51	0.06	0.10	0.06	0.11	0.06	0.11	0.04	0.06	0.03	0.05	0.02	0.05	0.01	0.04	0.00	0.02		
20/02/2024	0.49	0.05	0.10	0.06	0.08	0.06	0.17	0.04	0.08	0.04	0.06	0.02	0.04	0.01	0.02	0.00	0.02		
21/02/2024	0.48	0.05	0.11	0.07	0.11	0.07	0.12	0.04	0.07	0.03	0.06	0.02	0.04	0.01	0.03	0.01	0.01		
22/02/2024	0.51	0.05	0.08	0.06	0.12	0.08	0.13	0.04	0.08	0.03	0.06	0.02	0.04	0.01	0.04	0.00	0.02		
23/02/2024	0.52	0.06	0.11	0.06	0.12	0.07	0.13	0.04	0.07	0.03	0.05	0.02	0.04	0.01	0.03	0.00	0.03		
24/02/2024	0.52	0.05	0.11	0.07	0.09	0.07	0.13	0.04	0.09	0.03	0.10	0.02	0.05	0.01	0.02	0.00	0.02		
25/02/2024	0.54	0.05	0.10	0.07	0.13	0.07	0.10	0.04	0.09	0.03	0.06	0.02	0.05	0.01	0.03	0.01	0.01		
26/02/2024	0.53	0.06	0.07	0.07	0.12	0.08	0.13	0.04	0.10	0.03	0.07	0.03	0.04	0.01	0.04	0.01	0.03		
27/02/2024	0.50	0.07	0.11	0.08	0.16	0.09	0.15	0.06	0.09	0.04	0.05	0.03	0.06	0.01	0.02	0.01	0.03		
28/02/2024	0.51	0.10	0.19	0.10	0.11	0.08	0.14	0.07	0.12	0.04	0.07	0.02	0.04	0.01	0.04	0.01	5.00		
29/02/2024	0.55	0.11	0.20	0.10	0.18	0.07	0.10	0.08	0.14	0.05	0.08	0.01	0.04	0.01	0.01	0.01	0.02		

Total Number of Measurements Taken, A: 12514      13775      14807      14580      15392      15518      13880      15627  
Turbidity Standard for Monitoring Location (NTU): 0.3      0.3      0.3      0.3      0.3      0.3      0.3      0.3  
Number of Measurements Meeting Standard, B: 12514      13775      14807      14580      15392      15518      13880      15626  
Compliance with Turbidity Standard, C = B/A X 100%: 100.000%      100.000%      100.000%      100.000%      100.000%      100.000%      100.000%      99.994%

File Path: N:\Water Treatment Branch\Administration\Reports\Regulatory Submissions\Turbidity\2024\02-February

Submitted By (Print): D. Merredew

Signature: original signed by D. Merredew



Water and Waste  
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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 Licence No. PWS-09-412-02 A	Date	Turbidity (NTU)																
		Raw Water		Filter 1		Filter 2		Filter 3		Filter 4		Filter 5		Filter 6		Filter 7		
		Grab	Analyser	Grab	Analyser	Grab	Analyser	Grab	Analyser	Grab	Analyser	Grab	Analyser	Grab	Analyser	Grab	Analyser	
	01-Feb-2024	0.47	0.46	0.09	0.04	0.10	0.15	0.11	0.03	0.09	0.14	0.11	0.14	0.09	0.04	0.10	0.07	
	02-Feb-2024	0.46	0.45	0.09	0.09	0.12	0.05	0.12	0.04	0.09	0.04	0.08	0.03	0.09	0.04	0.08	<0.02	0.10
	03-Feb-2024	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	
	04-Feb-2024	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	
	05-Feb-2024	0.45	0.44	0.10	0.10	0.09	0.03	0.10	0.03	0.09	0.02	0.11	0.05	0.09	0.03	0.09	<0.02	0.09
	06-Feb-2024	0.48	0.47	0.09	0.08	0.10	0.03	0.11	0.03	0.09	0.02	0.08	0.04	0.09	0.03	0.09	<0.02	0.09
	07-Feb-2024	0.42	0.46	0.09	0.09	0.13	0.04	0.12	0.04	0.10	0.02	0.09	0.04	0.10	0.03	0.09	<0.02	0.14
	08-Feb-2024	0.46	0.43	0.10	0.09	0.09	0.03	0.10	0.02	0.10	0.03	0.08	0.03	0.11	0.05	0.08	<0.02	0.08
	09-Feb-2024	0.45	0.46	0.11	0.11	0.10	0.03	0.10	0.03	0.08	0.02	0.09	0.04	0.08	0.03	0.09	<0.02	0.09
	10-Feb-2024	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	
	11-Feb-2024	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	
	12-Feb-2024	0.43	0.42	0.10	0.10	0.09	0.03	0.14	0.05	0.11	0.03	0.09	0.03	0.12	0.05	0.10	<0.02	0.10
	13-Feb-2024	0.39	0.44	0.11	0.11	0.09	0.03	0.10	0.02	0.08	<0.02	0.09	0.03	0.08	0.02	0.09	<0.02	0.02
	14-Feb-2024	0.43	0.43	0.09	0.09	0.11	0.05	0.12	0.04	0.09	0.02	0.07	0.02	0.08	0.02	0.09	<0.02	0.08
	15-Feb-2024	0.40	0.45	0.10	0.06	0.10	0.07	0.15	0.09	0.10	0.04	0.09	0.04	0.09	0.02	0.08	<0.02	0.10
	16-Feb-2024	0.40	0.52	0.12	0.09	0.09	0.07	0.11	0.06	0.12	0.05	0.09	0.04	0.10	0.03	0.09	<0.02	0.09
	17-Feb-2024	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	
	18-Feb-2024	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	
	19-Feb-2024	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	
	20-Feb-2024	0.47	0.49	0.14	0.09	0.10	0.07	0.11	0.07	0.11	0.06	0.09	0.05	0.10	0.03	0.09	<0.02	0.08
	21-Feb-2024	0.42	0.46	0.09	0.07	0.13	0.09	0.12	0.08	0.09	0.04	0.11	0.05	0.08	0.02	0.08	<0.02	0.09
	22-Feb-2024	0.46	0.46	0.10	0.07	0.12	0.09	0.13	0.09	0.10	0.05	0.08	0.04	0.08	0.03	0.08	<0.02	0.09
	23-Feb-2024	0.46	0.48	0.11	0.07	0.11	0.07	0.14	0.10	0.11	0.06	0.10	0.05	0.10	0.04	0.09	<0.02	0.09
	24-Feb-2024	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	
	25-Feb-2024	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	
	26-Feb-2024	0.52	0.51	0.10	0.06	0.09	0.07	0.13	0.10	0.09	0.05	0.07	0.04	0.08	0.04	0.07	<0.02	0.09
	27-Feb-2024	0.51	0.48	0.13	0.09	0.11	0.09	0.19	0.15	0.13	0.07	0.09	0.05	0.09	0.05	0.07	<0.02	0.07
	28-Feb-2024	0.48	0.48	0.15	0.16	0.13	0.10	0.14	0.10	0.16	0.11	0.09	0.05	0.07	0.04	0.08	<0.02	0.07
	29-Feb-2024	0.48	0.50	0.13	0.14	0.15	0.13	0.13	0.08	0.11	0.09	0.08	0.05	0.08	0.02	0.08	<0.02	0.08
<b>Total number of measurements taken, A:</b>		20		20		20		20		20		20		20		20		
<b>Turbidity Standard for Monitoring Location (NTU):</b>		0.30		0.30		0.30		0.30		0.30		0.30		0.30		0.30		
<b>Number of measurements meeting standard, B:</b>		20		20		20		20		20		20		20		20		
<b>Compliance with Turbidity Standard, C= B/A X 100%:</b>		100%		100%		100%		100%		100%		100%		100%		100%		

na: not analyzed nr: no result ns: no sample o/l: offline im: instrument maintenance

Comments:

Report Date: March 7, 2024

**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-09-412-02-A**  
Report Created: **01 March 2024**

Report Period: February 2024

Date	BRANCH 1 [mg/L]		BRANCH 2 [mg/L]	
	Average	Minimum	Average	Minimum
01/02/2024	1.25	1.10	1.25	1.08
02/02/2024	1.32	1.22	1.30	1.23
03/02/2024	1.36	1.28	1.34	1.28
04/02/2024	1.37	1.33	1.37	1.33
05/02/2024	1.35	1.27	1.32	1.28
06/02/2024	1.41	1.35	1.36	1.32
07/02/2024	1.44	1.33	1.40	1.32
08/02/2024	1.41	0.86	1.40	1.23
09/02/2024	1.39	1.26	1.41	1.28
10/02/2024	1.34	1.29	1.31	1.25
11/02/2024	1.35	1.30	1.30	1.27
12/02/2024	1.30	1.19	1.29	1.19
13/02/2024	1.32	1.16	1.34	1.20
14/02/2024	1.37	1.23	1.36	1.26
15/02/2024	1.34	0.86	1.30	0.90
16/02/2024	1.26	1.17	1.22	1.17
17/02/2024	1.21	1.16	1.22	1.19
18/02/2024	1.30	1.22	1.28	1.20
19/02/2024	1.31	1.23	1.27	1.17
20/02/2024	1.30	1.23	1.23	1.18
21/02/2024	1.22	0.98	1.22	1.16
22/02/2024	1.22	1.11	1.20	1.15
23/02/2024	1.25	1.05	1.23	1.09
24/02/2024	1.26	1.20	1.28	1.25
25/02/2024	1.25	1.20	1.27	1.25
26/02/2024	1.29	1.23	1.29	1.24
27/02/2024	1.32	1.20	1.31	1.22
28/02/2024	1.25	1.10	1.28	1.19
29/02/2024	1.15	1.03	1.21	1.13

Total Number of Measurements, A: **20167**      20166  
Minimum Free Chlorine Standard: **0.5**      0.5  
Number of Measurements Meeting Standard, B: **20167**      20166  
COMPLIANCE, C = B/A X 100%: **100.00**      100.00

File Path: N:\Water Treatment Branch\Administration\Reports\Regulatory Submissions\Chlorine\2024\02-February

Submitted By (Print): D. MerredewSignature: original signed by D. Merredew



**Water and Waste**  
**Eaux et déchets**

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		
Date	Free Chlorine (mg/L)		Total Chlorine (mg/L)	Free Chlorine (mg/L)		Total Chlorine (mg/L)
	Analyser	Grab	Grab	Analyser	Grab	Grab
01-Feb-2024	1.19	1.27	1.58	1.22	1.31	1.60
02-Feb-2024	1.24	1.32	1.65	1.30	1.39	1.66
03-Feb-2024	ns	ns	ns	ns	ns	ns
04-Feb-2024	ns	ns	ns	ns	ns	ns
05-Feb-2024	1.33	1.35	1.68	1.32	1.35	1.65
06-Feb-2024	1.45	1.39	1.75	1.37	1.42	1.75
07-Feb-2024	1.41	1.45	1.85	1.44	1.54	1.85
08-Feb-2024	1.37	1.46	1.75	1.35	1.35	1.66
09-Feb-2024	1.44	1.44	1.84	1.45	1.51	1.73
10-Feb-2024	ns	ns	ns	ns	ns	ns
11-Feb-2024	ns	ns	ns	ns	ns	ns
12-Feb-2024	1.25	1.31	1.58	1.26	1.26	1.52
13-Feb-2024	1.35	1.41	1.69	1.36	1.38	1.66
14-Feb-2024	1.46	1.37	1.70	1.44	1.36	1.68
15-Feb-2024	1.01	0.93	1.20	1.15	1.21	1.45
16-Feb-2024	1.23	1.31	1.54	1.19	1.19	1.46
17-Feb-2024	ns	ns	ns	ns	ns	ns
18-Feb-2024	ns	ns	ns	ns	ns	ns
19-Feb-2024	ns	ns	ns	ns	ns	ns
20-Feb-2024	1.32	1.40	1.63	1.26	1.23	1.47
21-Feb-2024	1.33	1.33	1.62	1.29	1.27	1.53
22-Feb-2024	1.14	1.22	1.50	1.21	1.25	1.49
23-Feb-2024	1.31	1.29	1.56	1.21	1.25	1.53
24-Feb-2024	ns	ns	ns	ns	ns	ns
25-Feb-2024	ns	ns	ns	ns	ns	ns
26-Feb-2024	1.28	1.38	1.64	1.26	1.35	1.60
27-Feb-2024	1.21	1.27	1.57	1.31	1.33	1.56
28-Feb-2024	1.24	1.33	1.58	1.28	1.29	1.59
29-Feb-2024	1.04	1.12	1.43	1.14	1.19	1.47
<b>Total number of measurements taken, A:</b>	20			20		
<b>Chlorine Standard for Monitoring Location (mg/L):</b>	0.50			0.50		
<b>Number of measurements meeting standard, B:</b>	20			20		
<b>Compliance with Chlorine Standard, C= B/A X 100%:</b>	100%			100%		

na: not analyzed nr: no result ns: no sample o/l: offline im: instrument maintenance

**Comments:**

**Report Date:** March 7, 2024



**CITY OF WINNIPEG**  
WATER AND WASTE DEPARTMENT  
WATER SERVICES

Water System Code: 252.00  
Licence Number: PWS-09-412-02-A

**WATER TREATMENT PLANT UV REPORT**

Report Period: February 2024

Report Created: Friday, March 01, 2024

Date	UVR-D100A				UVR-D200A				UVR-D300A				UVR-D400A				UVR-D500A				UVR-D600A				Total				% Volume Treated To Dose	
	Water Volume [ML]				Water Volume [ML]				Water Volume [ML]				Water Volume [ML]				Water Volume [ML]				Water Volume [ML]				Water Volume [ML]					
	Untreated	Below	To	Total	Untreated	Below	To	Total																						
01/02/2024	0.00	0.00	0.00	0.00	0.00	0.05	81.94	81.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	41.55	41.55	0.00	0.00	66.11	66.11	0.00	0.05	189.61	189.65	99.98			
02/02/2024	0.00	0.00	0.00	0.00	0.00	0.00	85.00	85.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	40.36	40.36	0.00	0.00	67.96	67.96	0.00	0.00	193.32	193.32	100.00			
03/02/2024	0.00	0.00	0.00	0.00	0.00	0.00	84.37	84.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	39.43	39.43	0.00	0.00	65.80	65.80	0.00	0.00	189.60	189.60	100.00			
04/02/2024	0.00	0.00	0.00	0.00	0.00	0.00	84.97	84.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	39.71	39.71	0.00	0.00	66.30	66.30	0.00	0.00	190.99	190.99	100.00			
05/02/2024	0.00	0.00	0.00	0.00	0.00	0.12	84.88	85.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	39.73	39.73	0.00	0.00	66.33	66.33	0.00	0.12	190.94	191.05	99.94			
06/02/2024	0.00	0.00	0.00	0.00	0.00	0.00	84.99	84.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	39.73	39.73	0.00	0.00	66.25	66.25	0.00	0.00	190.97	190.97	100.00			
07/02/2024	0.00	0.00	0.00	0.00	0.00	0.00	84.99	84.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	39.73	39.73	0.00	0.00	66.28	66.28	0.00	0.00	191.00	191.00	100.00			
08/02/2024	0.00	0.00	0.00	0.00	0.00	0.11	82.01	82.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	40.21	40.23	0.00	0.07	67.08	67.15	0.00	0.20	189.30	189.50	99.89			
09/02/2024	0.00	0.00	0.00	0.00	0.00	0.00	84.93	84.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	40.49	40.49	0.00	0.06	68.47	68.53	0.00	0.06	193.90	193.95	99.97			
10/02/2024	0.00	0.00	0.00	0.00	0.00	0.00	83.61	83.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	39.21	39.21	0.00	0.00	64.99	64.99	0.00	0.00	187.81	187.81	100.00			
11/02/2024	0.00	0.00	0.00	0.00	0.00	0.00	82.33	82.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	38.97	38.97	0.00	0.00	63.99	63.99	0.00	0.00	185.29	185.29	100.00			
12/02/2024	0.00	0.00	0.00	0.00	0.00	0.00	83.06	83.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	39.16	39.16	0.00	0.00	64.63	64.63	0.00	0.00	186.84	186.84	100.00			
13/02/2024	0.00	0.00	0.00	0.00	0.00	0.00	83.28	83.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	38.88	38.88	0.00	0.00	64.81	64.81	0.00	0.00	186.97	186.97	100.00			
14/02/2024	0.00	0.00	0.00	0.00	0.00	0.00	81.26	81.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	38.24	38.24	0.00	0.00	63.18	63.18	0.00	0.00	182.67	182.67	100.00			
15/02/2024	0.00	0.00	0.00	0.00	0.06	74.36	74.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	33.80	33.80	0.00	0.00	56.48	56.48	0.00	0.06	164.64	164.70	99.96			
16/02/2024	0.00	0.00	0.00	0.00	0.00	0.00	84.87	84.87	0.00	0.00	0.00	0.00	0.00	0.00	0.03	36.83	36.86	0.00	0.00	64.95	64.95	0.00	0.03	186.65	186.67	99.99				
17/02/2024	0.00	0.00	0.00	0.00	0.00	0.00	84.93	84.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	36.39	36.39	0.00	0.00	64.00	64.00	0.00	0.00	185.32	185.32	100.00			
18/02/2024	0.00	0.00	0.00	0.00	0.00	0.00	84.98	84.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	35.94	35.94	0.00	0.00	63.07	63.07	0.00	0.00	183.98	183.98	100.00			
19/02/2024	0.00	0.00	0.00	0.00	0.12	84.88	85.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	35.38	35.38	0.00	0.00	62.15	62.15	0.00	0.12	182.41	182.53	99.93			
20/02/2024	0.00	0.00	0.00	0.00	0.59	84.86	85.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	35.11	35.11	0.00	0.00	61.41	61.41	0.00	0.59	181.38	181.98	99.67			
21/02/2024	0.00	0.01	0.71	0.73	0.00	1.36	73.38	74.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	36.82	36.82	0.00	0.10	63.17	63.27	0.00	1.48	174.08	175.56	99.16			
22/02/2024	0.00	0.00	43.82	43.82	0.00	0.37	35.10	35.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	37.17	37.17	0.00	0.11	63.78	63.89	0.00	0.48	179.87	180.35	99.73			
23/02/2024	0.00	0.00	49.81	49.81	0.00	0.05	26.54	26.59	0.00	0.00	23.15	23.15	0.00	0.00	30.94	30.94	0.00	0.18	17.92	18.11	0.00	0.22	28.50	28.72	0.00	0.45	176.87	177.32	99.75	
24/02/2024	0.00	0.00	0.00	0.00	0.00	0.00	78.48	78.48	0.00	0.00	40.67	40.67	0.00	0.00	63.82	63.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	182.97	182.97	100.00			
25/02/2024	0.00	0.00	0.00	0.00	0.00	0.00	79.18	79.18	0.00	0.00	42.54	42.54	0.00	0.00	65.26	65.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	186.98	186.98	100.00			
26/02/2024	0.00	0.00	0.00	0.00	0.00	0.00	78.74	78.74	0.00	0.00	43.09	43.09	0.00	0.00	65.19	65.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	187.02	187.02	100.00			
27/02/2024	0.00	0.00	0.00	0.00	0.00	0.00	78.07	78.07	0.00	0.00	42.10	42.10	0.00	0.00	64.42	64.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	184.59	184.59	100.00			
28/02/2024	0.00	0.00	0.00	0.00	0.00	0.00	78.49	78.49	0.00	0.00	41.25	41.25	0.00	0.00	64.28	64.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	184.03	184.03	100.00			
29/02/2024	0.00	0.00	0.00	0.00	0.00	0.00	78.94	78.94	0.00	0.00	40.79	40.79	0.00	0.00	64.25	64.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	183.99	183.99	100.00			

**Notes:** 1. UV Comparative Dose: 18.1 mJ/cm<sup>2</sup>

Submitted By (Print): D. Merredew

Signature: original signed by D. Merredew

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**CITY OF WINNIPEG**  
WATER AND WASTE DEPARTMENT  
WATER SERVICES

Water System Code: 252.00  
Licence Number: PWS-09-412-02-A

WATER TREATMENT PLANT UV REPORT

Report Period: February 2024

Report Created: Friday, March 01, 2024

Date	Transmittance (%)				UVR_D100A			UVR_D200A			UVR_D300A			UVR_D400A			UVR_D500A			UVR_D600A		
	Branch 1		Branch 2		UV Dose [mJ/cm <sup>2</sup> ]																	
01/02/2024	93.5	92.8	92.1	91.8	OL	OL	OL	16.1	29.8	22.0	OL	OL	OL	OL	OL	OL	18.3	105.2	27.7	13.1	52.9	23.9
02/02/2024	93.4	92.4	92.1	91.9	OL	OL	OL	17.9	23.0	21.7	OL	OL	OL	OL	OL	OL	19.9	27.6	22.1	20.7	22.6	21.9
03/02/2024	93.4	92.8	92.1	92.0	OL	OL	OL	17.6	23.0	21.7	OL	OL	OL	OL	OL	OL	19.9	23.8	22.0	20.4	22.5	21.9
04/02/2024	93.5	92.7	92.2	91.9	OL	OL	OL	18.4	23.2	21.7	OL	OL	OL	OL	OL	OL	19.9	24.0	22.0	20.5	22.6	21.9
05/02/2024	93.5	92.6	92.2	92.0	OL	OL	OL	10.9	37.4	21.7	OL	OL	OL	OL	OL	OL	20.1	23.8	21.9	20.5	22.6	21.9
06/02/2024	93.4	92.7	92.2	91.9	OL	OL	OL	19.2	44.7	21.9	OL	OL	OL	OL	OL	OL	19.8	23.5	22.0	20.5	22.7	21.9
07/02/2024	93.5	91.8	92.2	91.8	OL	OL	OL	19.2	23.1	21.9	OL	OL	OL	OL	OL	OL	19.5	23.5	22.0	20.3	22.5	21.9
08/02/2024	93.4	92.4	92.2	91.4	OL	OL	OL	0.0	104.5	22.3	OL	OL	OL	OL	OL	OL	0.0	89.4	24.7	0.0	106.0	22.4
09/02/2024	93.4	92.2	92.2	91.9	OL	OL	OL	19.8	37.8	21.9	OL	OL	OL	OL	OL	OL	18.3	52.6	22.2	15.6	37.5	21.9
10/02/2024	93.5	92.8	92.2	92.0	OL	OL	OL	19.1	23.0	21.9	OL	OL	OL	OL	OL	OL	19.4	23.8	22.0	20.6	22.6	21.9
11/02/2024	93.5	92.7	92.3	92.1	OL	OL	OL	19.2	23.0	21.9	OL	OL	OL	OL	OL	OL	19.3	23.7	22.0	19.3	34.5	21.9
12/02/2024	93.6	92.8	92.4	91.9	OL	OL	OL	19.6	23.0	21.9	OL	OL	OL	OL	OL	OL	18.8	24.0	21.9	19.1	23.0	21.9
13/02/2024	93.8	93.0	92.6	90.7	OL	OL	OL	19.2	22.9	21.9	OL	OL	OL	OL	OL	OL	19.3	23.9	21.9	18.8	23.1	21.9
14/02/2024	93.8	92.6	92.6	91.8	OL	OL	OL	19.0	23.1	22.0	OL	OL	OL	OL	OL	OL	19.3	24.1	21.9	18.9	23.2	21.9
15/02/2024	93.7	90.2	92.6	91.9	OL	OL	OL	0.0	103.7	22.5	OL	OL	OL	OL	OL	OL	0.0	94.4	22.9	0.0	105.9	22.0
16/02/2024	93.8	92.9	92.6	92.3	OL	OL	OL	19.6	22.5	21.9	OL	OL	OL	OL	OL	OL	17.5	23.5	21.9	19.1	22.9	21.9
17/02/2024	93.8	93.2	92.6	92.4	OL	OL	OL	19.7	22.5	21.8	OL	OL	OL	OL	OL	OL	19.8	23.2	21.9	18.8	22.6	21.9
18/02/2024	93.8	93.2	92.6	92.4	OL	OL	OL	19.4	22.4	21.8	OL	OL	OL	OL	OL	OL	19.2	23.5	21.9	19.0	22.9	21.9
19/02/2024	93.6	92.9	92.7	92.4	OL	OL	OL	17.7	22.4	20.8	OL	OL	OL	OL	OL	OL	19.2	23.2	21.9	19.1	22.9	21.9
20/02/2024	93.4	92.6	93.2	92.8	OL	OL	OL	16.9	21.1	19.6	OL	OL	OL	OL	OL	OL	19.6	23.4	21.9	18.8	23.0	21.8
21/02/2024	93.2	92.4	94.3	93.6	0.0	104.4	48.0	0.0	42.2	21.1	OL	OL	OL	OL	OL	OL	18.3	24.1	21.9	17.3	24.3	21.9
22/02/2024	92.8	91.8	96.4	95.2	20.4	68.1	27.3	0.0	94.0	22.1	OL	OL	OL	OL	OL	OL	18.2	25.2	22.0	17.3	24.4	22.0
23/02/2024	92.4	91.6	95.5	76.2	0.0	104.2	24.3	0.0	93.0	42.3	0.0	106.0	55.1	0.0	106.0	42.3	0.0	101.9	22.0	0.0	90.4	22.0
24/02/2024	91.9	91.0	97.3	94.8	OL	OL	OL	20.2	22.9	21.8	35.7	86.6	61.6	21.2	40.1	30.7	OL	OL	OL	OL	OL	OL
25/02/2024	91.1	90.0	93.4	90.0	OL	OL	OL	20.0	26.4	21.9	32.1	78.2	36.9	18.7	38.2	22.0	OL	OL	OL	OL	OL	OL
26/02/2024	91.3	85.3	97.1	94.4	OL	OL	OL	19.3	35.4	21.8	33.3	71.4	48.4	19.5	35.1	25.6	OL	OL	OL	OL	OL	OL
27/02/2024	91.4	88.7	95.3	54.4	OL	OL	OL	18.5	46.7	22.0	27.1	64.5	34.1	16.2	30.4	22.0	OL	OL	OL	OL	OL	OL
28/02/2024	91.1	89.5	94.6	88.6	OL	OL	OL	17.1	50.9	22.1	27.7	62.5	38.5	17.7	31.6	22.8	OL	OL	OL	OL	OL	OL
29/02/2024	92.6	86.9	92.0	61.6	OL	OL	OL	17.5	61.6	27.9	25.6	61.7	33.3	17.8	31.6	22.0	OL	OL	OL	OL	OL	OL

Notes: 1. UV Comparative Dose: 18.1 mJ/cm<sup>2</sup>

2. OL - Off Line

Submitted By (Print): D. Merredew

Signature: original signed by D. Merredew

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