



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

June 6, 2024

RE: MAY 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 May 2024.

The on-line and grab sampling turbidity reports include results obtained for the Water Treatment Plant raw water and the eight filters. The maximum turbidity was greater than 0.30 NTU on several occasions; the elevated turbidities occurred for less than 12 consecutive hours. On May 14, the turbidity on Filter 3 exceeded 1.00 NTU; the elevated turbidity reading was caused by material sloughing from the sample line; additional information is provided in CAR-03-2024. On May 25, the turbidity on Filter 4 exceeded 1.00 NTU; the elevated turbidity was caused by material sloughing from the sample line; additional information is provided in CAR-04-2024. 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 reports include 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)
C. Wiebe, 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-AA**

WATER TREATMENT PLANT TURBIDITY ON-LINE MONITORING REPORT

May 2024 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
1/05/2024	1.15	0.08	0.13	0.05	0.08	0.02	0.05	0.10	0.15	0.00	0.05	0.04	0.09	0.02	0.03	0.08	0.12
2/05/2024	1.11	0.08	0.15	0.04	0.10	0.03	0.15	0.09	0.15	0.00	0.11	0.05	0.08	0.02	0.06	0.07	0.13
3/05/2024	1.09	0.14	0.16	0.06	0.11	0.03	0.16	0.13	0.17	0.01	0.04	0.05	0.08	0.01	0.03	0.09	0.13
4/05/2024	1.14	0.16	0.20	0.09	0.11	0.04	0.14	0.12	0.19	0.01	0.09	0.05	0.09	0.02	0.04	0.09	0.14
5/05/2024	1.19	0.17	0.25	0.10	0.14	0.04	0.13	0.12	0.21	0.01	0.06	0.06	0.10	0.02	0.05	0.12	0.17
6/05/2024	1.24	0.10	0.25	0.04	0.17	0.05	0.18	0.11	0.17	0.01	0.06	0.05	0.14	0.03	0.08	0.06	0.17
7/05/2024	1.20	0.02	0.07	0.02	0.06	0.05	0.69	0.12	0.14	0.02	0.06	0.03	0.06	0.03	0.04	0.01	0.04
8/05/2024	1.17	0.02	0.04	0.02	0.05	0.06	0.13	0.10	0.15	0.02	0.10	0.03	0.06	0.03	0.06	0.01	0.02
9/05/2024	1.19	0.01	0.04	0.02	0.05	0.07	0.14	0.10	0.15	0.01	0.04	0.03	0.05	0.03	0.05	0.01	0.05
10/05/2024	1.52	0.01	0.05	0.02	0.07	0.07	0.18	0.10	0.15	0.02	0.05	0.04	0.09	0.03	0.06	0.01	0.05
11/05/2024	1.60	0.01	0.04	0.02	0.06	0.08	0.30	0.12	0.18	0.01	0.08	0.03	0.08	0.03	0.06	0.01	0.07
12/05/2024	1.19	0.01	0.04	0.03	0.06	0.10	0.24	0.10	0.17	0.01	0.05	0.04	0.07	0.04	0.05	0.02	0.05
13/05/2024	1.18	0.01	0.04	0.03	0.12	0.10	0.21	0.12	0.17	0.01	0.10	0.04	0.11	0.03	0.05	0.03	0.07
14/05/2024	1.12	0.01	0.04	0.03	0.09	0.08	1.63	0.12	0.16	0.00	0.03	0.05	0.08	0.03	0.05	0.03	0.08
15/05/2024	1.15	0.01	0.03	0.03	0.07	0.08	0.19	0.13	0.18	0.01	0.07	0.05	0.09	0.03	0.05	0.05	0.12
16/05/2024	1.09	0.00	0.09	0.01	0.11	0.06	0.16	0.07	0.17	0.01	0.98	0.04	0.10	0.02	0.10	0.02	0.45
17/05/2024	1.13	0.01	0.04	0.02	0.05	0.09	0.15	0.08	0.12	0.02	0.05	0.02	0.04	0.02	0.06	0.04	0.08
18/05/2024	1.19	0.02	0.05	0.02	0.05	0.08	0.18	0.09	0.12	0.03	0.07	0.02	0.04	0.02	0.05	0.05	0.08
19/05/2024	1.25	0.02	0.04	0.01	0.04	0.05	0.18	0.08	0.12	0.03	0.07	0.02	0.05	0.02	0.05	0.04	0.07
20/05/2024	1.19	0.02	0.04	0.01	0.04	0.01	0.06	0.08	0.12	0.03	0.05	0.02	0.04	0.02	0.04	0.03	0.07
21/05/2024	1.24	0.01	0.03	0.01	0.04	0.01	0.06	0.09	0.15	0.02	0.06	0.02	0.04	0.02	0.04	0.03	0.06
22/05/2024	1.36	0.01	0.03	0.01	0.05	0.01	0.05	0.08	0.12	0.03	0.04	0.02	0.04	0.02	0.04	0.03	0.06
23/05/2024	1.44	0.01	0.03	0.01	0.05	0.01	0.09	0.08	0.20	0.02	0.04	0.03	0.05	0.02	0.04	0.03	0.06
24/05/2024	1.26	0.01	0.03	0.01	0.03	0.01	0.05	0.08	0.12	0.01	0.06	0.03	0.06	0.02	0.04	0.03	0.06
25/05/2024	1.12	0.01	0.02	0.01	0.03	0.01	0.07	0.06	3.11	0.01	0.04	0.04	0.06	0.02	0.03	0.03	0.06
26/05/2024	1.14	0.01	0.02	0.01	0.04	0.00	0.04	0.04	0.08	0.01	0.04	0.05	0.08	0.02	0.04	0.04	0.07
27/05/2024	1.19	0.01	0.02	0.01	0.04	0.01	0.04	0.05	0.08	0.01	0.05	0.06	0.10	0.03	0.04	0.05	0.11
28/05/2024	1.32	0.01	0.04	0.01	0.12	0.01	0.05	0.04	0.09	0.01	0.08	0.08	0.13	0.04	0.08	0.07	0.09
29/05/2024	1.63	0.01	0.04	0.02	0.11	0.01	0.07	0.04	0.07	0.01	0.04	0.10	0.15	0.04	0.09	0.07	0.11
30/05/2024	1.46	0.01	0.04	0.02	0.06	0.02	0.08	0.06	0.09	0.01	0.03	0.11	0.18	0.04	0.09	0.07	0.12
31/05/2024	2.01	0.01	0.07	0.02	0.06	0.01	0.04	0.06	0.09	0.01	0.04	0.06	0.15	0.05	0.08	0.08	0.13

Total Number of Measurements Taken, A:	13879	15580	16487	16498	15238	16504	16154	17384
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:	13879	15580	16484	16497	15237	16504	16154	17382
Compliance with Turbidity Standard, C = B/A X 100%:	100.000%	100.000%	99.982%	99.994%	99.993%	100.000%	100.000%	99.988%

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Submitted By (Print): D. Merredew

Signature: original signed by D. Merredew



Water Treatment Plant Turbidity Grab Monitoring Report May 2024

Water System Code: 252.00		Turbidity (NTU)																	
Licence No. PWS-09-412-02 AA																			
Date	Raw Water		Filter 1		Filter 2		Filter 3		Filter 4		Filter 5		Filter 6		Filter 7		Filter 8		
	Grab	Analyser	Grab	Analyser	Grab	Analyser	Grab	Analyser	Grab	Analyser	Grab	Analyser	Grab	Analyser	Grab	Analyser	Grab	Analyser	
01-May-2024	0.71	1.17	0.09	0.10	0.09	0.05	0.10	0.03	0.11	0.14	0.10	<0.02	0.09	0.05	0.11	0.02	0.10	0.08	
02-May-2024	0.69	1.11	0.08	0.11	0.10	0.06	0.10	0.05	0.09	0.11	0.09	<0.02	0.09	0.06	0.14	0.05	0.10	0.09	
03-May-2024	0.69	1.06	0.09	0.15	0.09	0.07	0.15	0.07	0.09	0.13	0.09	0.02	0.11	0.07	0.09	<0.02	0.09	0.09	
04-May-2024	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	
05-May-2024	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	
06-May-2024	0.78	1.07	0.09	0.24	0.10	<0.02	0.11	0.05	0.09	0.14	0.09	0.03	0.10	0.09	0.10	0.02	0.12	0.14	
07-May-2024	0.80	1.15	0.10	0.02	0.09	0.02	0.17	0.10	0.10	0.12	0.10	0.04	0.11	0.05	0.09	0.03	0.08	<0.02	
08-May-2024	0.74	1.16	0.10	0.04	0.09	0.02	0.10	0.08	0.10	0.12	0.09	0.02	0.09	0.04	0.10	0.03	0.09	<0.02	
09-May-2024	0.78	1.09	0.09	0.02	0.10	0.03	0.11	0.08	0.09	0.11	0.08	0.03	0.09	0.04	0.11	0.04	0.09	<0.02	
10-May-2024	1.07	1.45	0.09	0.03	0.09	0.03	0.13	0.11	0.10	0.12	0.09	0.03	0.09	0.05	0.09	0.03	0.09	<0.02	
11-May-2024	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	
12-May-2024	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	
13-May-2024	1.02	1.11	0.11	0.02	0.10	0.04	0.12	0.10	0.10	0.13	0.09	0.02	0.09	0.05	0.11	0.03	0.10	0.02	
14-May-2024	1.02	1.07	0.10	0.02	0.09	0.03	0.12	0.10	0.11	0.13	0.10	0.02	0.10	0.05	0.11	0.04	0.09	0.04	
15-May-2024	1.05	1.14	0.10	<0.02	0.09	0.04	0.10	0.08	0.10	0.13	0.09	<0.02	0.09	0.07	0.08	0.02	0.09	0.05	
16-May-2024	0.78	1.08	0.09	<0.02	ns	ns	0.09	0.10	ns	ns	0.08	0.02	0.10	0.09	0.08	0.02	0.10	0.07	
17-May-2024	0.86	1.12	0.09	0.02	0.09	0.03	0.10	0.10	0.09	0.10	0.09	0.04	0.08	0.03	0.09	0.02	0.09	0.05	
18-May-2024	ns	ns	ns	ns	0.10	0.02	ns	ns	0.09	0.10	ns	ns	ns	ns	ns	ns	ns	ns	
19-May-2024	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	
20-May-2024	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	
21-May-2024	0.69	1.16	0.09	0.02	0.09	0.02	0.09	<0.02	0.09	0.10	0.09	0.03	0.09	0.02	0.09	0.02	0.09	0.03	
22-May-2024	0.66	1.32	0.09	0.03	0.08	0.02	0.10	<0.02	0.09	0.10	0.08	0.03	0.09	0.04	0.09	<0.02	0.09	0.03	
23-May-2024	0.62	1.41	0.08	<0.02	0.08	<0.02	0.10	0.03	0.09	0.09	0.08	0.03	0.08	0.03	0.08	0.02	0.09	0.03	
24-May-2024	0.66	1.49	0.08	<0.02	0.09	0.02	0.09	<0.02	0.09	0.10	0.08	0.03	0.08	0.03	0.08	<0.02	0.09	0.03	
25-May-2024	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	
26-May-2024	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	
27-May-2024	1.00	1.14	0.09	0.02	0.09	0.02	0.10	0.03	0.08	0.05	0.07	<0.02	0.08	0.06	0.08	0.03	0.08	0.04	
28-May-2024	1.03	1.20	0.09	<0.02	0.09	0.02	0.10	0.02	0.08	0.05	0.08	0.03	0.08	0.09	0.08	0.02	0.08	0.06	
29-May-2024	1.02	1.54	0.10	0.02	0.13	0.04	0.10	<0.02	0.09	0.06	0.09	0.02	0.13	0.14	0.10	0.03	0.11	0.08	
30-May-2024	1.09	1.87	0.12	0.03	0.12	0.05	0.10	<0.02	0.10	0.06	0.09	0.02	0.09	0.12	0.10	0.04	0.14	0.11	
31-May-2024	1.06	1.80	0.09	<0.02	0.09	0.02	0.12	0.03	0.12	0.08	0.10	0.02	0.10	0.04	0.11	0.04	0.11	0.07	
Total number of measurements taken, A:			22		22		22		22		22		22		22		22		
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:			22		22		22		22		22		22		22		22		
Compliance with Turbidity Standard, C= B/A X 100%:			100%		100%		100%		100%		100%		100%		100%		100%		

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

Comments:

The raw water analyzer is cleaned daily during warm water months because it is susceptible to frequent fouling

Report Date: June 6, 2024



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

Water System Code: **252.00**
 Licence Number: **PWS-09-412-02-AA**
 Report Created: 01 June 2024

Report Period: May 2024

Date	BRANCH 1 [mg/L]		BRANCH 2 [mg/L]	
	Average	Minimum	Average	Minimum
01/05/2024	1.25	1.18	1.22	1.17
02/05/2024	1.22	0.75	1.23	0.86
03/05/2024	1.25	1.20	1.26	1.21
04/05/2024	1.25	1.20	1.25	1.20
05/05/2024	1.29	1.20	1.28	1.20
06/05/2024	1.33	1.28	1.33	1.28
07/05/2024	1.33	1.29	1.32	1.18
08/05/2024	1.35	1.25	1.33	1.24
09/05/2024	1.33	1.28	1.32	1.26
10/05/2024	1.35	1.22	1.35	1.22
11/05/2024	1.37	1.19	1.36	1.18
12/05/2024	1.31	1.23	1.32	1.22
13/05/2024	1.42	1.25	1.41	1.19
14/05/2024	1.42	1.35	1.45	1.33
15/05/2024	1.40	1.31	1.41	1.33
16/05/2024	1.70	1.31	1.62	1.30
17/05/2024	1.39	1.18	1.29	1.21
18/05/2024	1.25	1.10	1.32	0.95
19/05/2024	1.31	1.17	1.33	1.25
20/05/2024	1.37	1.20	1.35	1.22
21/05/2024	1.48	1.21	1.48	1.28
22/05/2024	1.47	1.38	1.47	1.39
23/05/2024	1.51	1.43	1.49	1.44
24/05/2024	1.54	1.24	1.57	1.52
25/05/2024	1.33	1.14	1.41	0.97
26/05/2024	1.33	1.21	1.40	1.18
27/05/2024	1.45	1.38	1.39	1.30
28/05/2024	1.47	1.29	1.41	1.30
29/05/2024	1.46	1.37	1.42	1.33
30/05/2024	1.42	1.32	1.36	1.24
31/05/2024	1.41	1.33	1.37	1.24

Total Number of Measurements, A:	21599	21599
Minimum Free Chlorine Standard:	0.5	0.5
Number of Measurements Meeting Standard, B:	21599	21599
COMPLIANCE, C = B/A X 100%:	100.00	100.00

File Path: N:\Water Treatment Branch\Administration\Reports\Regulatory Submissions\Chlorine\2024\05-May

Submitted By (Print): D. Merredew

Signature: original signed by D. Merredew



Water Treatment Plant Chlorine Grab Monitoring Report May 2024

Water System Code: 252.00 Licence No. PWS-09-412-02 AA	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-May-2024	1.27	1.31	1.48	1.23	1.31	1.49
02-May-2024	1.17	1.17	1.39	1.16	1.23	1.41
03-May-2024	1.27	1.27	1.43	1.27	1.27	1.46
04-May-2024	ns	ns	ns	ns	ns	ns
05-May-2024	ns	ns	ns	ns	ns	ns
06-May-2024	1.34	1.30	1.49	1.34	1.32	1.51
07-May-2024	1.32	1.27	1.48	1.30	1.33	1.56
08-May-2024	1.30	1.30	1.49	1.28	1.33	1.49
09-May-2024	1.32	1.31	1.55	1.30	1.34	1.57
10-May-2024	1.37	1.35	1.56	1.39	1.39	1.61
11-May-2024	ns	ns	ns	ns	ns	ns
12-May-2024	ns	ns	ns	ns	ns	ns
13-May-2024	1.46	1.42	1.62	1.42	1.46	1.64
14-May-2024	1.42	1.40	1.69	1.52	1.46	1.68
15-May-2024	1.45	1.41	1.64	1.45	1.41	1.67
16-May-2024	1.42	1.42	1.57	1.42	1.41	1.58
17-May-2024	1.21	1.24	1.50	1.28	1.26	1.51
18-May-2024	ns	ns	ns	ns	ns	ns
19-May-2024	ns	ns	ns	ns	ns	ns
20-May-2024	ns	ns	ns	ns	ns	ns
21-May-2024	1.42	1.42	1.58	1.42	1.42	1.60
22-May-2024	1.50	1.49	1.67	1.50	1.42	1.68
23-May-2024	1.51	1.46	1.66	1.46	1.49	1.68
24-May-2024	1.61	1.59	1.83	1.58	1.65	1.85
25-May-2024	ns	ns	ns	ns	ns	ns
26-May-2024	ns	ns	ns	ns	ns	ns
27-May-2024	1.44	1.42	1.66	1.37	1.41	1.63
28-May-2024	1.46	1.48	1.69	1.35	1.50	1.70
29-May-2024	1.52	1.42	1.61	1.44	1.43	1.64
30-May-2024	1.49	1.45	1.67	1.40	1.47	1.67
31-May-2024	1.40	1.34	1.56	1.42	1.36	1.55
Total number of measurements taken, A:			22			22
Chlorine Standard for Monitoring Location (mg/L):			0.50			0.50
Number of measurements meeting standard, B:			22			22
Compliance with Chlorine Standard, C= B/A X 100%:			100%			100%

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

Comments:

Report Date: June 6, 2024



CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT
WATER SERVICES

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

WATER TREATMENT PLANT UV REPORT

Report Period: **May 2024**

Report Created: **Monday, June 03, 2024**

Date	UVR-D100A		UVR-D200A		UVR-D300A		UVR-D400A		UVR-D500A		UVR-D600A		Total		% Volume Treated To Dose
	Water Volume		Water Volume [ML]		Water Volume		Water Volume [ML]		Water Volume		Water Volume		Water Volume [ML]		
	To	Total	To	Total	To	Total	To	Total	To	Total	To	Total	To	Total	
01/05/2024	93.25	93.25	0.00	0.00	0.00	0.00	0.00	0.00	98.74	98.74	0.00	0.00	191.99	191.99	100.00
02/05/2024	34.10	34.10	0.00	0.00	5.80	5.80	40.18	40.18	34.53	34.53	56.89	56.89	171.50	171.50	100.00
03/05/2024	0.00	0.00	0.00	0.00	0.00	0.00	86.17	86.17	0.00	0.00	103.83	103.83	190.00	190.00	100.00
04/05/2024	0.00	0.00	0.00	0.00	0.00	0.00	85.73	85.79	1.24	1.24	107.47	107.55	194.44	194.58	99.93
05/05/2024	0.00	0.00	0.00	0.00	0.00	0.00	85.64	85.64	0.00	0.00	109.35	109.35	194.98	194.98	100.00
06/05/2024	0.00	0.00	0.00	0.00	0.00	0.00	85.51	85.51	0.00	0.00	109.48	109.48	194.99	194.99	100.00
07/05/2024	0.00	0.00	0.00	0.00	0.00	0.00	85.28	85.28	0.30	0.33	109.37	109.37	194.95	194.98	99.99
08/05/2024	0.00	0.00	0.00	0.00	0.00	0.00	86.25	86.25	0.00	0.00	110.87	110.87	197.12	197.12	100.00
09/05/2024	0.00	0.00	0.00	0.00	0.00	0.00	87.50	87.50	0.00	0.00	112.47	112.47	199.97	199.97	100.00
10/05/2024	0.00	0.00	0.00	0.00	0.00	0.00	88.40	88.40	0.00	0.00	113.75	113.75	202.15	202.15	100.00
11/05/2024	0.00	0.00	0.00	0.00	0.00	0.00	89.48	89.48	0.00	0.00	115.53	115.53	205.01	205.01	100.00
12/05/2024	0.00	0.00	0.00	0.00	0.00	0.00	90.90	90.90	0.00	0.00	117.57	117.57	208.47	208.47	100.00
13/05/2024	0.00	0.00	0.00	0.00	0.00	0.00	91.49	91.49	0.00	0.00	118.34	118.34	209.82	209.82	100.00
14/05/2024	0.00	0.00	0.00	0.00	0.00	0.00	93.38	93.38	0.00	0.00	112.52	112.52	205.90	205.90	100.00
15/05/2024	0.00	0.00	0.00	0.00	0.00	0.00	99.10	99.10	0.00	0.00	108.65	108.65	207.75	207.75	100.00
16/05/2024	0.00	0.00	0.00	0.00	0.00	0.00	70.16	70.16	0.00	0.00	73.74	73.74	143.90	143.90	100.00
17/05/2024	0.00	0.00	0.00	0.00	0.00	0.00	86.54	86.54	0.00	0.00	103.55	103.55	190.09	190.09	100.00
18/05/2024	0.00	0.00	0.00	0.00	0.00	0.00	83.13	83.15	0.00	0.00	98.56	98.68	181.69	181.84	99.92
19/05/2024	0.00	0.00	0.00	0.00	0.00	0.00	91.01	91.01	0.00	0.00	94.59	94.59	185.59	185.59	100.00
20/05/2024	0.00	0.00	0.00	0.00	0.00	0.00	89.56	89.56	0.00	0.00	95.46	95.46	185.01	185.01	100.00
21/05/2024	0.00	0.00	0.00	0.00	0.00	0.00	87.13	87.13	0.00	0.00	97.89	97.89	185.01	185.01	100.00
22/05/2024	0.00	0.00	0.00	0.00	0.00	0.00	89.69	89.69	0.00	0.00	100.66	100.66	190.34	190.34	100.00
23/05/2024	0.00	0.00	0.00	0.00	0.00	0.00	91.93	91.93	0.00	0.00	103.09	103.09	195.02	195.02	100.00
24/05/2024	0.00	0.00	0.00	0.00	0.05	0.05	91.68	91.68	0.00	0.00	103.01	103.01	194.74	194.74	100.00
25/05/2024	9.72	9.72	0.00	0.00	41.83	41.83	49.46	49.46	0.00	0.00	93.39	93.39	194.40	194.40	100.00
26/05/2024	92.93	92.93	0.00	0.00	34.00	34.00	65.75	65.75	2.69	2.69	0.00	0.00	195.36	195.36	100.00
27/05/2024	94.57	94.57	0.00	0.00	0.00	0.00	100.30	100.30	0.00	0.00	0.00	0.00	194.87	194.87	100.00
28/05/2024	94.71	94.71	0.00	0.00	0.00	0.00	100.28	100.28	0.00	0.00	0.00	0.00	194.99	194.99	100.00
29/05/2024	94.72	94.72	0.00	0.00	0.00	0.00	100.28	100.28	0.00	0.00	0.00	0.00	194.99	194.99	100.00
30/05/2024	96.71	96.71	0.00	0.00	0.00	0.00	102.56	102.56	0.00	0.00	0.00	0.00	199.27	199.27	100.00
31/05/2024	100.37	100.37	0.00	0.00	0.00	0.00	106.44	106.44	0.00	0.00	0.00	0.00	206.80	206.80	100.00
Total [ML]:	711.07	711.07	0.00	0.00	81.68	81.68	2600.88	2600.96	137.49	137.52	2470.02	2470.23	6001.14	6001.46	

Water Volume [%]:
 1o Dose per reactor 100.00 % OL % 100.00 % 100.00 % 99.98 % 99.99 %
 To Dose Total 99.99 %

Notes: 1. Target Log value: 2.00

Submitted By (Print): D. Merredew

Signature: original signed by D. Merredew



CITY OF WINNIPEG
 WATER AND WASTE DEPARTMENT
 WATER SERVICES

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

WATER TREATMENT PLANT UV REPORT

Report Period: May 2024

Report Created: Monday, June 03, 2024

Date	Transmittance (%)				UVR_D100A [Log]		UVR_D200A [Log]		UVR_D300A [Log]		UVR_D400A [Log]		UVR_D500A [Log]		UVR_D600A [Log]	
	Branch 1		Branch 2		Avg.	Min.	Avg.	Min.	Avg.	Min.	Avg.	Min.	Avg.	Min.	Avg.	Min.
	Avg.	Min.	Avg.	Min.												
01/05/2024	93.6	92.9	94.4	94.1	2.4	2.2	OL	OL	OL	OL	OL	OL	2.5	2.2	OL	OL
02/05/2024	93.7	92.7	94.5	93.7	2.4	0.0	OL	OL	3.6	0.0	3.0	2.6	2.5	0.0	3.4	0.0
03/05/2024	93.2	92.5	93.9	93.8	0.0	0.0	OL	OL	OL	OL	2.6	2.4	0.0	0.0	3.1	2.8
04/05/2024	93.2	92.3	93.8	93.5	0.0	0.0	OL	OL	OL	OL	2.5	0.0	0.0	0.0	2.8	0.0
05/05/2024	93.1	92.4	93.7	93.4	OL	OL	OL	OL	OL	OL	2.5	2.3	OL	OL	2.7	2.4
06/05/2024	93.1	92.5	93.7	93.1	OL	OL	OL	OL	OL	OL	2.5	2.3	OL	OL	2.6	2.3
07/05/2024	93.1	92.4	93.6	92.7	OL	OL	OL	OL	OL	OL	2.5	2.3	1.8	0.0	2.5	2.3
08/05/2024	93.1	91.8	93.6	93.4	OL	OL	OL	OL	OL	OL	2.5	2.3	OL	OL	2.4	2.2
09/05/2024	93.2	92.0	93.6	93.3	OL	OL	OL	OL	OL	OL	2.5	2.3	OL	OL	2.5	2.2
10/05/2024	93.1	92.4	93.5	93.2	OL	OL	OL	OL	OL	OL	2.5	2.3	OL	OL	2.5	2.2
11/05/2024	93.0	92.2	93.3	92.3	OL	OL	OL	OL	OL	OL	2.4	2.3	OL	OL	2.4	2.3
12/05/2024	93.0	92.2	93.3	92.9	OL	OL	OL	OL	OL	OL	2.4	2.3	OL	OL	2.5	2.2
13/05/2024	92.9	92.4	93.3	93.1	OL	OL	OL	OL	OL	OL	2.4	2.3	OL	OL	2.4	2.3
14/05/2024	93.0	92.4	93.4	92.9	OL	OL	OL	OL	OL	OL	2.5	2.2	OL	OL	2.5	2.2
15/05/2024	93.1	92.4	93.5	93.1	OL	OL	OL	OL	OL	OL	2.5	2.2	OL	OL	2.5	2.2
16/05/2024	93.5	2.6	93.4	0.0	OL	OL	OL	OL	OL	OL	2.5	0.0	OL	OL	2.5	0.0
17/05/2024	93.8	93.2	92.7	92.4	OL	OL	OL	OL	OL	OL	2.4	2.3	OL	OL	2.4	2.2
18/05/2024	93.9	93.0	92.7	92.4	OL	OL	OL	OL	OL	OL	2.5	0.0	OL	OL	2.5	0.0
19/05/2024	93.9	93.1	92.7	92.2	OL	OL	OL	OL	OL	OL	2.5	1.9	OL	OL	2.5	1.9
20/05/2024	94.0	93.4	92.8	92.6	OL	OL	OL	OL	OL	OL	2.4	2.1	OL	OL	2.4	2.3
21/05/2024	94.1	93.5	92.9	92.7	OL	OL	OL	OL	OL	OL	2.4	2.3	OL	OL	2.4	2.3
22/05/2024	94.1	93.6	92.9	92.7	OL	OL	OL	OL	OL	OL	2.4	2.3	OL	OL	2.4	2.3
23/05/2024	94.1	93.4	92.9	92.7	OL	OL	OL	OL	OL	OL	2.4	2.3	OL	OL	2.4	2.3
24/05/2024	94.2	93.6	92.9	92.7	OL	OL	OL	OL	3.0	0.0	2.5	1.8	OL	OL	2.4	2.3
25/05/2024	94.3	93.3	93.0	92.5	2.3	1.8	OL	OL	2.5	2.0	2.5	0.0	OL	OL	2.4	0.0
26/05/2024	94.3	92.2	93.0	92.7	2.4	0.0	OL	OL	2.5	0.0	2.5	2.3	3.0	0.0	OL	OL
27/05/2024	94.1	93.5	92.9	92.3	2.5	1.9	OL	OL	OL	OL	2.5	2.0	OL	OL	OL	OL
28/05/2024	95.3	93.6	94.3	92.9	2.5	2.2	OL	OL	OL	OL	2.5	2.3	OL	OL	OL	OL
29/05/2024	96.7	96.0	95.7	95.5	2.6	2.3	OL	OL	OL	OL	2.8	2.4	OL	OL	OL	OL
30/05/2024	96.6	95.9	95.7	95.5	2.5	2.3	OL	OL	OL	OL	2.9	2.7	OL	OL	OL	OL
31/05/2024	96.6	96.0	95.7	95.3	2.5	2.3	OL	OL	OL	OL	2.8	2.5	OL	OL	OL	OL

- Notes:
- UV target value is 2.00 [Log]
 - OL - Off Line

Submitted By (Print): D. Merredew

Signature: _original signed by D. Merredew