



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

September 5, 2024

RE: AUGUST 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 August 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. 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

August 2024 Turbidity (NTU)

Date	Raw		Filter #1		Filter #2		Filter #3		Filter #4		Filter #5		Filter #6		Filter #7		Filter #8	
	Avg	Max	Avg	Max	Avg	Max	Avg	Max	Avg	Max	Avg	Max	Avg	Max	Avg	Max	Avg	Max
1/08/2024	1.77	0.09	0.27		0.02	0.06	0.07	0.13	0.06	0.15	0.01	0.08	0.06	0.13	0.05	0.09	0.13	0.18
2/08/2024	1.72	0.05	0.30		0.05	0.10	0.06	0.16	0.08	0.13	0.01	0.10	0.04	0.13	0.03	0.08	0.07	0.18
3/08/2024	1.46	0.03	0.08		0.06	0.12	0.06	0.12	0.07	0.53	0.01	0.12	0.03	0.17	0.01	0.05	0.02	0.10
4/08/2024	1.96	0.05	0.10		0.07	0.11	0.07	0.16	0.07	0.15	0.03	0.06	0.05	0.09	0.01	0.01	0.02	0.14
5/08/2024	2.06	0.05	0.10		0.08	0.10	0.07	0.18	0.07	0.13	0.03	0.06	0.07	0.14	0.01	0.02	0.02	0.07
6/08/2024	2.16	0.06	0.09		0.07	0.13	0.07	0.15	0.07	0.13	0.04	0.11	0.10	0.24	0.01	0.05	0.03	0.14
7/08/2024	2.30	0.06	0.19		0.07	0.11	0.07	0.10	0.08	0.12	0.03	0.08	0.13	0.24	0.01	0.02	0.03	0.07
8/08/2024	2.46	0.06	0.12		0.07	0.18	0.09	0.14	0.07	0.13	0.05	0.09	0.21	0.25	0.01	0.02	0.04	0.08
9/08/2024	2.58	0.06	0.12		0.07	0.10	0.08	0.14	0.06	0.12	0.06	0.12	0.08	0.32	0.01	0.02	0.05	0.08
10/08/2024	2.02	0.06	0.10		0.08	0.12	0.07	0.15	0.07	0.16	0.06	0.12	0.03	0.08	0.01	0.03	0.05	0.26
11/08/2024	1.33	0.07	0.12		0.07	0.12	0.08	0.15	0.08	0.45	0.05	0.14	0.04	0.07	0.01	0.02	0.05	0.17
12/08/2024	1.79	0.07	0.17		0.07	0.12	0.10	0.17	0.08	0.38	0.06	0.10	0.04	0.08	0.01	0.02	0.05	0.12
13/08/2024	1.57	0.06	0.11		0.07	0.11	0.10	0.17	0.07	0.12	0.07	0.11	0.07	0.15	0.01	0.04	0.07	0.09
14/08/2024	1.72	0.07	0.12		0.08	0.12	0.07	0.18	0.07	0.14	0.06	0.09	0.07	0.12	0.01	0.02	0.07	0.11
15/08/2024	2.13	0.08	0.10		0.08	0.11	0.04	0.11	0.07	0.13	0.09	0.13	0.09	0.15	0.01	0.02	0.09	0.19
16/08/2024	2.33	0.08	0.14		0.07	0.12	0.04	0.11	0.08	0.11	0.08	0.14	0.11	0.16	0.01	0.01	0.09	0.17
17/08/2024	2.31	0.08	0.15		0.07	0.13	0.05	0.08	0.08	0.38	0.09	0.17	0.14	0.20	0.01	0.02	0.12	0.17
18/08/2024	2.16	0.09	0.15		0.08	0.14	0.06	0.12	0.08	0.17	0.10	0.21	0.19	0.22	0.01	0.02	0.14	0.20
19/08/2024	1.96	0.08	0.16		0.09	0.31	0.05	0.13	0.06	0.11	0.07	0.18	0.13	0.25	0.01	0.02	0.09	0.22
20/08/2024	1.84	0.06	0.09		0.07	0.12	0.05	0.29	0.04	0.09	0.03	0.07	0.06	0.11	0.01	0.02	0.00	0.14
21/08/2024	2.52	0.08	0.11		0.09	0.15	0.05	0.14	0.07	0.09	0.04	0.08	0.07	0.13	0.01	0.02	0.01	0.11
22/08/2024	3.06	0.08	0.14		0.09	0.14	0.08	0.14	0.07	0.14	0.05	0.08	0.10	0.15	0.02	0.04	0.01	0.06
23/08/2024	3.17	0.08	0.12		0.10	0.13	0.08	0.43	0.08	0.14	0.04	0.11	0.08	0.18	0.02	0.05	0.02	0.18
24/08/2024	2.68	0.07	0.11		0.07	0.16	0.09	0.15	0.09	0.16	0.05	0.09	0.06	0.12	0.02	0.05	0.02	0.12
25/08/2024	2.05	0.06	0.11		0.05	0.11	0.09	0.15	0.10	0.13	0.04	0.08	0.05	0.14	0.01	0.05	0.02	0.06
26/08/2024	2.84	0.06	0.12		0.05	0.10	0.08	0.12	0.09	0.16	0.06	0.13	0.05	0.10	0.02	0.04	0.03	0.10
27/08/2024	4.14	0.07	0.13		0.04	0.10	0.07	0.13	0.09	0.14	0.08	0.14	0.08	0.14	0.03	0.06	0.04	0.06
28/08/2024	4.80	0.06	0.11		0.05	0.08	0.06	0.13	0.09	0.15	0.08	0.13	0.07	0.13	0.03	0.07	0.06	0.11
29/08/2024	4.95	0.07	0.09		0.04	0.15	0.06	0.14	0.08	0.16	0.09	0.13	0.06	0.10	0.02	0.05	0.05	0.09
30/08/2024	4.68	0.07	0.13		0.04	0.12	0.06	0.14	0.12	0.29	0.10	0.30	0.06	0.11	0.02	0.04	0.05	0.10
31/08/2024	4.97	0.07	0.13		0.05	0.09	0.09	0.13	0.07	0.17	0.09	0.13	0.06	0.09	0.03	0.05	0.05	0.11

Total Number of Measurements Taken, A: 15477
Turbidity Standard for Monitoring Location (NTU): 0.3
Number of Measurements Meeting Standard, B: 15477
Compliance with Turbidity Standard, C = B/A X 100%: 100.000%

99.994% 99.993% 99.976% 100.000% 99.994% 100.000% 100.000%

15552 15005 16390 16347 16370 15183 14960
0.3 0.3 0.3 0.3 0.3 0.3 0.3
15551 15004 16386 16347 16369 15183 14960

File Path: N:\Water Treatment Branch\Administration\Reports\Regulatory Submissions\Turbidity\2024\08-August

Submitted By (Print): D. Merredew

Signature: original signed by D. Merredew



Water and Waste
Eaux et déchets

Water Treatment Plant Turbidity Grab Monitoring Report
August 2024

Date	Turbidity (NTU)																	
	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-Aug-2024	1.54	1.86	0.12	0.10	0.13	0.03	0.13	0.08	0.11	0.07	0.09	0.02	0.09	0.06	0.09	0.05	0.13	0.17
02-Aug-2024	1.43	1.92	0.14	0.05	0.15	0.09	0.16	0.09	0.12	0.08	0.11	0.06	0.09	0.08	0.10	0.06	0.10	0.18
03-Aug-2024	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
04-Aug-2024	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
05-Aug-2024	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
06-Aug-2024	1.33	2.02	0.14	0.07	0.15	0.10	0.14	0.07	0.12	0.07	0.10	0.04	0.09	0.11	0.10	<0.02	0.13	0.06
07-Aug-2024	1.33	2.19	0.15	0.08	0.16	0.10	0.15	0.08	0.13	0.07	0.11	0.05	0.10	0.15	0.11	<0.02	0.09	0.02
08-Aug-2024	1.50	2.48	0.17	0.11	0.12	0.08	0.15	0.09	0.17	0.12	0.12	0.08	0.11	0.21	0.12	<0.02	0.11	0.05
09-Aug-2024	1.64	2.42	0.12	0.08	0.12	0.08	0.17	0.10	0.11	0.07	0.09	0.07	0.10	0.06	0.11	<0.02	0.10	0.06
10-Aug-2024	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
11-Aug-2024	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
12-Aug-2024	1.35	1.92	0.14	0.10	0.10	0.07	0.13	0.10	0.12	0.08	0.13	0.10	0.08	0.05	0.09	<0.02	0.10	0.06
13-Aug-2024	1.43	2.03	0.11	0.08	0.12	0.08	0.16	0.13	0.16	0.11	0.11	0.10	0.12	0.08	0.12	0.02	0.11	0.09
14-Aug-2024	1.21	2.32	0.12	0.08	0.14	0.08	0.19	0.16	0.12	0.07	0.10	0.09	0.10	0.09	0.09	<0.02	0.10	0.09
15-Aug-2024	1.60	2.14	0.13	0.09	0.14	0.10	0.14	0.04	0.12	0.08	0.10	0.09	0.13	0.13	0.10	<0.02	0.12	0.13
16-Aug-2024	1.88	2.20	0.14	0.10	0.14	0.09	0.13	0.04	0.13	0.09	0.11	0.12	0.10	0.12	0.10	<0.02	0.10	0.11
17-Aug-2024	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
18-Aug-2024	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
19-Aug-2024	1.43	1.80	0.14	0.11	0.14	0.11	0.20	0.11	0.12	0.09	0.10	0.14	0.11	0.25	0.10	<0.02	0.11	0.21
20-Aug-2024	1.77	1.80	0.13	0.08	0.14	0.09	0.13	0.04	0.12	0.05	0.09	0.04	0.13	0.08	0.09	<0.02	0.10	<0.02
21-Aug-2024	1.43	1.89	0.15	0.09	0.18	0.12	0.14	0.05	0.14	0.07	0.14	0.09	0.11	0.08	0.12	<0.02	0.10	<0.02
22-Aug-2024	2.21	3.48	0.19	0.12	0.13	0.11	0.17	0.08	0.18	0.12	0.12	0.07	0.13	0.11	0.10	<0.02	0.10	<0.02
23-Aug-2024	2.10	2.93	0.14	0.09	0.14	0.11	0.21	0.12	0.13	0.08	0.13	0.06	0.16	0.14	0.18	0.03	0.15	0.04
24-Aug-2024	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
25-Aug-2024	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
26-Aug-2024	2.12	2.77	0.17	0.09	0.13	0.05	0.16	0.09	0.15	0.12	0.16	0.08	0.13	0.07	0.12	0.02	0.13	0.03
27-Aug-2024	2.77	4.16	0.18	0.10	0.14	0.06	0.18	0.09	0.18	0.13	0.13	0.10	0.15	0.08	0.13	0.03	0.14	0.05
28-Aug-2024	3.43	4.89	0.14	0.09	0.14	0.06	0.21	0.11	0.14	0.09	0.15	0.12	0.17	0.10	0.18	0.04	0.18	0.08
29-Aug-2024	3.33	5.38	0.13	0.07	0.13	0.06	0.14	0.06	0.12	0.10	0.14	0.10	0.15	0.08	0.13	<0.02	0.16	0.06
30-Aug-2024	3.00	4.73	0.14	0.09	0.15	0.06	0.15	0.07	0.13	0.12	0.15	0.12	0.14	0.07	0.16	0.02	0.14	0.06
31-Aug-2024	ns	ns	ns	ns	ns	ns	ns	ns	ns	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%	

na: not analyzed nr: no result ns: no sample o/: 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: September 5, 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-AA**

Report Created: **01 September 2024**

Report Period: August 2024

Date	BRANCH 1 [mg/L]		BRANCH 2 [mg/L]	
	Average	Minimum	Average	Minimum
01/08/2024	1.60	1.55	1.70	1.40
02/08/2024	1.59	1.51	1.63	1.53
03/08/2024	1.54	1.47	1.54	1.48
04/08/2024	1.57	1.52	1.57	1.52
05/08/2024	1.48	1.39	1.49	1.41
06/08/2024	1.41	0.83	1.32	0.85
07/08/2024	1.48	1.33	1.32	1.06
08/08/2024	1.48	1.43	1.47	0.96
09/08/2024	1.52	1.45	1.59	1.49
10/08/2024	1.59	1.48	1.62	1.52
11/08/2024	1.63	1.57	1.66	1.56
12/08/2024	1.58	1.53	1.58	1.40
13/08/2024	1.55	1.49	1.60	1.55
14/08/2024	1.52	1.46	1.57	1.52
15/08/2024	1.55	1.45	1.59	1.49
16/08/2024	1.50	1.40	1.52	1.44
17/08/2024	1.57	1.46	1.57	1.48
18/08/2024	1.58	1.52	1.57	1.53
19/08/2024	1.56	1.48	1.56	1.49
20/08/2024	1.62	1.52	1.59	1.52
21/08/2024	1.65	1.48	1.58	1.45
22/08/2024	1.65	1.53	1.59	1.50
23/08/2024	1.65	1.51	1.60	1.51
24/08/2024	1.49	1.40	1.50	1.40
25/08/2024	1.43	1.32	1.47	1.39
26/08/2024	1.59	1.25	1.58	1.24
27/08/2024	1.66	1.39	1.63	1.39
28/08/2024	1.41	1.20	1.46	1.20
29/08/2024	1.56	1.42	1.59	1.53
30/08/2024	1.62	1.53	1.56	1.48
31/08/2024	1.59	1.38	1.53	1.36

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\08-August

Submitted By (Print): D. Merredew

Signature: original signed by D. Merredew



Water Treatment Plant Chlorine Grab Monitoring Report
August 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
01-Aug-2024		1.63	1.68	1.91	1.68	1.73
02-Aug-2024		1.63	1.72	1.93	1.69	1.74
03-Aug-2024		ns	ns	ns	ns	ns
04-Aug-2024		ns	ns	ns	ns	ns
05-Aug-2024		ns	ns	ns	ns	ns
06-Aug-2024		1.44	1.52	1.75	1.46	1.52
07-Aug-2024		1.49	1.50	1.75	1.34	1.42
08-Aug-2024		1.51	1.56	1.74	1.41	1.51
09-Aug-2024		1.52	1.62	1.80	1.64	1.58
10-Aug-2024		ns	ns	ns	ns	ns
11-Aug-2024		ns	ns	ns	ns	ns
12-Aug-2024		1.59	1.61	1.81	1.43	1.47
13-Aug-2024		1.58	1.66	1.88	1.62	1.59
14-Aug-2024		1.51	1.54	1.80	1.56	1.53
15-Aug-2024		1.60	1.60	1.86	1.61	1.63
16-Aug-2024		1.53	1.56	1.76	1.57	1.52
17-Aug-2024		ns	ns	ns	ns	ns
18-Aug-2024		ns	ns	ns	ns	ns
19-Aug-2024		1.60	1.63	1.84	1.58	1.63
20-Aug-2024		1.61	1.65	1.85	1.61	1.67
21-Aug-2024		1.71	1.60	1.83	1.58	1.60
22-Aug-2024		1.62	1.59	1.81	1.56	1.62
23-Aug-2024		1.70	1.65	1.85	1.62	1.62
24-Aug-2024		ns	ns	ns	ns	ns
25-Aug-2024		ns	ns	ns	ns	ns
26-Aug-2024		1.32	1.25	1.52	1.24	1.26
27-Aug-2024		1.54	1.55	1.75	1.47	1.53
28-Aug-2024		1.30	1.30	1.51	1.42	1.43
29-Aug-2024		1.52	1.54	1.77	1.57	1.54
30-Aug-2024		1.56	1.61	1.80	1.50	1.55
31-Aug-2024		ns	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%		

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

Comments:

Report Date: September 5, 2024

Report Period: August 2024

Report Created: Tuesday, September 03, 2024

WATER TREATMENT PLANT UV REPORT

Date	UVR-D100A		UVR-D200A		UVR-D300A		UVR-D400A		UVR-D500A		UVR-D600A		Total		% Volume Treated To Dose
	To	Total	To	Total	To	Total	To	Total	To	Total	To	Total	To	Total	
01/08/2024	0.00	0.00	121.77	121.77	0.00	0.00	0.63	0.63	0.00	0.00	106.74	106.74	229.14	229.14	100.00
02/08/2024	0.00	0.00	124.92	124.92	0.00	0.00	0.00	0.00	0.00	0.00	110.15	110.15	235.07	235.07	100.00
03/08/2024	0.00	0.00	125.02	125.02	0.00	0.00	0.00	0.00	0.00	0.00	110.99	110.99	236.01	236.01	100.00
04/08/2024	0.00	0.00	123.79	123.79	0.00	0.00	0.00	0.00	0.00	0.00	109.96	109.96	233.75	233.75	100.00
05/08/2024	0.00	0.00	111.24	111.24	0.00	0.00	0.00	0.00	0.00	0.00	96.90	96.90	208.14	208.14	100.00
06/08/2024	51.63	51.63	51.43	51.43	0.00	0.00	0.00	0.00	48.58	48.58	44.71	44.73	196.34	196.37	99.99
07/08/2024	102.73	102.73	0.00	0.00	0.00	0.00	68.24	68.24	35.90	35.90	0.00	0.00	206.87	206.87	100.00
08/08/2024	103.57	103.57	0.00	0.00	79.73	79.73	26.54	26.54	0.00	0.00	3.00	3.07	212.84	212.91	99.97
09/08/2024	104.99	104.99	0.00	0.00	109.84	109.84	0.00	0.00	0.00	0.00	0.00	0.00	214.83	214.83	100.00
10/08/2024	103.05	103.05	0.00	0.00	106.91	106.91	0.00	0.00	0.00	0.00	0.00	0.00	209.96	209.96	100.00
11/08/2024	103.31	103.31	0.00	0.00	107.14	107.14	0.00	0.00	0.00	0.00	0.00	0.00	210.46	210.46	100.00
12/08/2024	107.46	107.46	0.00	0.00	38.88	38.88	0.00	0.00	67.17	67.17	0.00	0.00	213.51	213.51	100.00
13/08/2024	110.46	110.46	0.00	0.00	0.00	0.00	0.00	0.00	105.90	105.90	0.00	0.00	216.36	216.36	100.00
14/08/2024	116.62	116.62	0.00	0.00	0.00	0.00	0.00	0.00	112.22	112.22	0.00	0.00	228.84	228.84	100.00
15/08/2024	117.53	117.53	0.00	0.00	0.00	0.00	0.00	0.00	112.12	112.12	0.00	0.00	229.64	229.64	100.00
16/08/2024	115.41	115.41	0.00	0.00	0.00	0.00	0.00	0.00	110.61	110.61	0.00	0.00	226.02	226.02	100.00
17/08/2024	112.24	112.24	0.00	0.00	0.00	0.00	0.00	0.00	107.76	107.76	0.00	0.00	220.00	220.00	100.00
18/08/2024	106.00	106.00	0.00	0.00	0.00	0.00	0.00	0.00	101.58	101.58	0.00	0.00	207.59	207.59	100.00
19/08/2024	104.48	104.48	0.00	0.00	0.00	0.00	0.00	0.00	100.18	100.18	0.00	0.00	204.66	204.66	100.00
20/08/2024	107.91	107.91	0.00	0.00	0.00	0.00	0.00	0.00	103.32	103.32	0.00	0.00	211.23	211.23	100.00
21/08/2024	111.29	111.29	0.00	0.00	0.00	0.00	0.00	0.00	105.59	105.59	0.00	0.00	216.88	216.88	100.00
22/08/2024	112.83	112.83	0.00	0.00	0.00	0.00	0.00	0.00	106.85	106.85	0.00	0.00	219.68	219.68	100.00
23/08/2024	110.81	110.81	0.00	0.00	0.00	0.00	0.00	0.00	105.22	105.22	0.00	0.00	216.03	216.03	100.00
24/08/2024	109.80	109.80	0.00	0.00	0.00	0.00	0.00	0.00	104.62	104.62	0.00	0.00	214.42	214.42	100.00
25/08/2024	110.47	110.47	0.00	0.00	0.00	0.00	0.00	0.00	105.18	105.18	0.00	0.00	215.65	215.65	100.00
26/08/2024	109.86	109.86	0.00	0.00	0.00	0.00	0.00	0.00	103.98	103.98	0.00	0.00	213.83	213.83	100.00
27/08/2024	109.00	109.00	0.00	0.00	0.00	0.00	0.00	0.00	103.01	103.01	0.00	0.00	212.01	212.01	100.00
28/08/2024	31.19	31.26	79.42	79.42	0.00	0.00	0.00	0.00	96.98	96.98	0.00	0.00	207.59	207.66	99.97
29/08/2024	0.00	0.00	111.70	111.70	0.00	0.00	0.00	0.00	94.61	94.61	0.00	0.00	206.31	206.31	100.00
30/08/2024	0.00	0.00	111.61	111.61	0.00	0.00	0.00	0.00	94.45	94.45	0.00	0.00	206.06	206.06	100.00
31/08/2024	0.00	0.00	108.91	108.91	0.00	0.00	0.00	0.00	91.85	91.85	0.00	0.00	200.76	200.76	100.00

Total [ML]: 2372.63 2372.70 1069.79 1069.79 442.50 442.50 95.41 95.41 2117.67 2117.67 582.45 582.54 6680.45 6680.62

Water Volume %:

To Dose per reactor

100.00 % 100.00 % 100.00 % 100.00 % 100.00 % 100.00 % 99.98 %

To Dose Total

100.00 %

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: August 2024

Report Created: Tuesday, September 03, 2024

Date	Transmittance (%)				UVR_D100A		UVR_D200A		UVR_D300A		UVR_D400A		UVR_D500A		UVR_D600A	
	Branch 1		Branch 2		Avg.	Min.										
01/08/2024	95.8	85.4	94.7	94.3	OL	OL	2.5	1.7	OL	OL	4.1	4.1	OL	OL	3.2	2.6
02/08/2024	95.7	0.0	94.7	93.7	OL	OL	2.5	1.9	OL	OL	OL	OL	OL	OL	2.7	2.3
03/08/2024	95.5	94.0	94.4	93.3	OL	OL	2.5	2.0	OL	OL	OL	OL	OL	OL	2.7	2.3
04/08/2024	95.5	94.6	94.3	93.8	OL	OL	2.5	1.9	OL	OL	OL	OL	OL	OL	2.6	2.3
05/08/2024	95.6	94.1	94.6	94.3	OL	OL	2.5	2.2	OL	OL	OL	OL	OL	OL	3.0	2.5
06/08/2024	95.8	88.8	95.2	93.9	3.7	3.2	2.5	2.3	OL	OL	OL	OL	2.5	1.4	2.9	0.0
07/08/2024	96.7	96.2	96.2	96.0	3.7	3.5	OL	OL	OL	OL	2.8	2.3	2.4	2.0	OL	OL
08/08/2024	96.8	96.2	96.2	95.9	3.6	3.3	OL	OL	3.7	3.5	2.6	2.5	OL	OL	3.8	0.0
09/08/2024	96.9	96.1	96.2	96.0	3.5	3.2	OL	OL	3.4	3.2	OL	OL	OL	OL	OL	OL
10/08/2024	97.2	96.4	96.5	96.1	3.5	3.2	OL	OL	3.4	3.2	OL	OL	OL	OL	OL	OL
11/08/2024	97.3	96.8	96.7	96.5	3.5	3.3	OL	OL	3.3	3.2	OL	OL	OL	OL	OL	OL
12/08/2024	97.2	96.5	96.5	19.8	3.4	2.9	OL	OL	3.3	1.9	OL	OL	3.6	3.2	OL	OL
13/08/2024	97.1	96.5	96.3	96.1	3.2	2.8	OL	OL	OL	OL	OL	OL	2.8	2.3	OL	OL
14/08/2024	97.1	96.4	96.3	21.1	3.2	2.6	OL	OL	OL	OL	OL	OL	2.5	1.8	OL	OL
15/08/2024	96.8	95.6	96.1	94.7	2.9	2.3	0.0	0.0	OL	OL	OL	OL	2.5	2.3	OL	OL
16/08/2024	97.1	96.5	96.3	95.3	3.1	2.7	OL	OL	OL	OL	OL	OL	2.5	2.3	OL	OL
17/08/2024	96.9	96.1	96.2	95.9	3.2	2.6	OL	OL	OL	OL	OL	OL	2.5	2.3	OL	OL
18/08/2024	96.9	96.4	96.2	95.9	3.1	2.5	OL	OL	OL	OL	OL	OL	2.5	2.3	OL	OL
19/08/2024	96.9	96.4	96.2	96.0	3.1	2.6	OL	OL	OL	OL	OL	OL	2.5	2.3	OL	OL
20/08/2024	96.5	94.9	95.7	94.4	2.7	2.3	OL	OL	OL	OL	OL	OL	2.5	2.2	OL	OL
21/08/2024	96.6	95.9	95.8	95.4	2.6	2.3	OL	OL	OL	OL	OL	OL	2.5	2.1	OL	OL
22/08/2024	96.4	95.9	95.6	95.5	2.6	2.3	OL	OL	OL	OL	OL	OL	2.5	2.3	OL	OL
23/08/2024	96.5	95.8	95.7	95.5	2.5	2.3	OL	OL	OL	OL	OL	OL	2.5	2.3	OL	OL
24/08/2024	96.4	95.8	95.6	95.4	2.6	2.3	OL	OL	OL	OL	OL	OL	2.5	2.3	OL	OL
25/08/2024	96.4	95.7	95.6	95.2	2.7	2.4	OL	OL	OL	OL	OL	OL	2.5	2.3	OL	OL
26/08/2024	96.3	95.7	95.5	95.3	2.6	2.4	OL	OL	OL	OL	OL	OL	2.5	2.2	OL	OL
27/08/2024	96.3	95.7	95.5	95.1	2.6	2.3	OL	OL	OL	OL	OL	OL	2.5	2.3	OL	OL
28/08/2024	96.4	95.8	95.6	95.1	2.7	0.0	2.6	2.3	OL	OL	OL	OL	2.5	2.3	OL	OL
29/08/2024	96.6	95.7	95.8	95.3	OL	OL	2.5	2.3	OL	OL	OL	OL	2.5	2.3	OL	OL
30/08/2024	96.4	95.7	95.7	95.4	OL	OL	2.5	2.3	OL	OL	OL	OL	2.5	2.3	OL	OL
31/08/2024	96.5	95.8	95.7	95.2	OL	OL	2.5	2.3	OL	OL	OL	OL	2.5	2.3	OL	OL

Notes: 1. UV target value is 2.00 [Log]

2. OL - Off Line

Submitted By (Print): D. Merredew

Signature: original signed by D. Merredew

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