



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

August 7, 2024

RE: JULY 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 July 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 Filter 3 on July 1, Filter 4 on July 25 and 29, and Filter 6 on July 13 and 15; 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

July 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
1/07/2024	1.13	0.03	0.06	0.09	0.14	0.07	0.36	0.10	0.23	0.06	0.08	0.07	0.14	0.09	0.21	0.01	0.06
2/07/2024	1.16	0.03	0.05	0.10	0.15	0.10	0.21	0.04	0.08	0.06	0.09	0.09	0.14	0.03	0.06	0.01	0.04
3/07/2024	1.28	0.02	0.07	0.11	0.16	0.10	0.20	0.06	0.11	0.06	0.10	0.10	0.17	0.05	0.06	0.01	0.04
4/07/2024	1.36	0.02	0.06	0.07	0.15	0.10	0.19	0.05	0.11	0.05	0.10	0.08	0.16	0.04	0.10	0.04	0.12
5/07/2024	1.32	0.03	0.05	0.02	0.04	0.05	0.10	0.05	0.09	0.04	0.07	0.01	0.04	0.03	0.07	0.06	0.15
6/07/2024	1.35	0.02	0.22	0.02	0.05	0.06	0.13	0.05	0.11	0.05	0.08	0.03	0.06	0.05	0.10	0.01	0.05
7/07/2024	1.44	0.02	0.07	0.02	0.05	0.09	0.18	0.08	0.12	0.04	0.09	0.04	0.08	0.08	0.10	0.02	0.04
8/07/2024	1.48	0.02	0.05	0.02	0.05	0.14	0.17	0.10	0.14	0.04	0.07	0.05	0.11	0.12	0.14	0.01	0.04
9/07/2024	1.67	0.02	0.05	0.02	0.03	0.09	0.25	0.14	0.21	0.04	0.08	0.09	0.11	0.08	0.19	0.01	0.03
10/07/2024	1.59	0.01	0.05	0.03	0.05	0.07	0.15	0.15	0.21	0.05	0.08	0.10	0.16	0.06	0.11	0.01	0.04
11/07/2024	1.92	0.02	0.06	0.03	0.06	0.09	0.20	0.18	0.20	0.04	0.08	0.13	0.19	0.07	0.13	0.01	0.04
12/07/2024	1.49	0.03	0.07	0.02	0.05	0.11	0.17	0.12	0.27	0.03	0.07	0.08	0.28	0.09	0.13	0.01	0.05
13/07/2024	1.55	0.04	0.07	0.01	0.05	0.09	0.16	0.07	0.12	0.02	0.05	0.03	0.33	0.07	0.11	0.01	0.03
14/07/2024	1.67	0.04	0.10	0.02	0.05	0.12	0.27	0.08	0.15	0.02	0.06	0.02	0.06	0.09	0.14	0.01	0.05
15/07/2024	1.65	0.05	0.08	0.04	0.07	0.13	0.25	0.09	0.15	0.03	0.06	0.02	0.31	0.11	0.17	0.01	0.04
16/07/2024	1.62	0.05	0.10	0.04	0.09	0.07	0.13	0.11	0.16	0.03	0.07	0.02	0.06	0.14	0.16	0.01	0.05
17/07/2024	1.58	0.04	0.09	0.05	0.10	0.08	0.10	0.08	0.16	0.03	0.07	0.02	0.05	0.07	0.20	0.02	0.05
18/07/2024	1.57	0.05	0.10	0.07	0.14	0.08	0.13	0.08	0.16	0.03	0.05	0.04	0.06	0.02	0.05	0.02	0.03
19/07/2024	1.46	0.04	0.09	0.10	0.15	0.06	0.16	0.07	0.10	0.02	0.06	0.02	0.08	0.01	0.05	0.02	0.05
20/07/2024	1.51	0.03	0.09	0.10	0.15	0.07	0.13	0.07	0.14	0.01	0.07	0.03	0.14	0.02	0.04	0.02	0.08
21/07/2024	1.66	0.03	0.07	0.10	0.16	0.07	0.12	0.06	0.11	0.01	0.05	0.03	0.05	0.01	0.04	0.01	0.02
22/07/2024	1.80	0.03	0.08	0.13	0.16	0.06	0.11	0.06	0.11	0.01	0.05	0.03	0.08	0.01	0.04	0.02	0.05
23/07/2024	1.66	0.05	0.06	0.14	0.19	0.07	0.21	0.06	0.24	0.02	0.07	0.04	0.10	0.01	0.04	0.03	0.05
24/07/2024	1.62	0.05	0.10	0.11	0.23	0.06	0.14	0.08	0.12	0.03	0.10	0.05	0.17	0.02	0.05	0.04	0.14
25/07/2024	1.55	0.06	0.10	0.05	0.13	0.10	0.12	0.09	0.32	0.03	0.08	0.05	0.12	0.02	0.04	0.04	0.10
26/07/2024	1.61	0.06	0.12	0.04	0.07	0.09	0.18	0.08	0.28	0.02	0.06	0.06	0.22	0.03	0.06	0.05	0.09
27/07/2024	1.68	0.05	0.09	0.05	0.08	0.09	0.16	0.08	0.15	0.02	0.04	0.05	0.12	0.02	0.05	0.05	0.10
28/07/2024	1.97	0.07	0.13	0.04	0.08	0.08	0.14	0.08	0.12	0.01	0.06	0.05	0.08	0.02	0.04	0.06	0.10
29/07/2024	2.43	0.06	0.11	0.02	0.08	0.07	0.12	0.06	0.41	0.02	0.06	0.05	0.09	0.02	0.06	0.07	0.20
30/07/2024	1.77	0.07	0.14	0.03	0.12	0.08	0.14	0.07	0.12	0.01	0.05	0.06	0.12	0.04	0.13	0.09	0.17
31/07/2024	1.75	0.07	0.13	0.03	0.06	0.08	0.15	0.06	0.12	0.00	0.03	0.05	0.12	0.05	0.08	0.11	0.14

Total Number of Measurements Taken, A:	15408	15441	14793	16204	16047	16080	15430	15345
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:	15408	15441	14792	16202	16047	16078	15430	15345
Compliance with Turbidity Standard, C = B/A X 100%:	100.000%	100.000%	99.993%	99.981%	100.000%	99.988%	100.000%	100.000%

File Path: N:\Water Treatment Branch\Administration\Reports\Regulatory Submissions\Turbidity\2024\07-July

Submitted By (Print): D. Merredew

Signature: original signed by D. Merredew



Water Treatment Plant Turbidity Grab Monitoring Report July 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-Jul-2024	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
02-Jul-2024	1.01	1.05	0.11	0.03	0.12	0.13	0.19	0.09	0.10	0.05	0.09	0.06	0.09	0.10	0.09	0.02	0.11	0.03	
03-Jul-2024	1.04	1.16	0.13	0.05	0.10	0.12	0.18	0.12	0.12	0.06	0.11	0.08	0.09	0.12	0.10	0.04	0.08	<0.02	
04-Jul-2024	1.01	1.58	0.13	0.05	0.10	0.14	0.13	0.15	0.14	0.09	0.08	0.06	0.09	0.15	0.10	0.08	0.09	<0.02	
05-Jul-2024	1.00	1.30	0.10	0.04	0.11	0.03	0.19	0.10	0.09	0.05	0.08	0.08	0.10	<0.02	0.12	0.05	0.10	0.13	
06-Jul-2024	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	
07-Jul-2024	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	
08-Jul-2024	1.01	1.38	0.12	0.04	0.09	0.02	0.14	0.14	0.12	0.13	0.08	0.05	0.09	0.07	0.09	0.12	0.08	0.02	
09-Jul-2024	1.12	1.66	0.10	0.03	0.10	0.02	0.19	0.21	0.09	0.13	0.08	0.05	0.09	0.09	0.10	0.06	0.09	0.02	
10-Jul-2024	1.21	1.50	0.10	0.03	0.10	0.03	0.11	0.06	0.10	0.19	0.09	0.06	0.11	0.14	0.09	0.06	0.11	0.03	
11-Jul-2024	1.26	1.37	0.12	0.03	0.14	0.05	0.13	0.09	0.10	0.18	0.09	0.07	0.08	0.14	0.09	0.07	0.10	0.03	
12-Jul-2024	1.28	1.48	0.15	0.06	0.11	0.04	0.16	0.15	0.15	0.24	0.08	0.06	0.10	0.19	0.10	0.10	0.09	0.02	
13-Jul-2024	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	
14-Jul-2024	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	
15-Jul-2024	1.26	1.46	0.13	0.06	0.14	0.05	0.15	0.15	0.11	0.09	0.09	0.04	0.09	0.03	0.10	0.11	0.11	0.03	
16-Jul-2024	1.34	1.59	0.14	0.06	0.13	0.07	0.15	0.09	0.13	0.11	0.12	0.07	0.09	0.03	0.10	0.14	0.10	0.02	
17-Jul-2024	1.30	1.47	0.14	0.06	0.11	0.05	0.18	0.08	0.13	0.13	0.09	0.05	0.10	0.04	0.11	0.18	0.10	0.03	
18-Jul-2024	1.27	1.42	0.12	0.06	0.12	0.08	0.18	0.10	0.17	0.14	0.10	0.05	0.10	0.04	0.12	0.03	0.10	0.03	
19-Jul-2024	1.22	1.50	0.13	0.06	0.14	0.12	0.17	0.09	0.12	0.08	0.09	0.04	0.13	0.06	0.09	<0.02	0.11	0.03	
20-Jul-2024	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	
21-Jul-2024	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	
22-Jul-2024	1.47	1.78	0.10	0.04	0.11	0.14	0.19	0.11	0.09	0.05	0.10	0.03	0.10	0.05	0.11	0.02	0.09	0.03	
23-Jul-2024	1.34	1.61	0.12	0.05	0.13	0.18	0.15	0.06	0.10	0.06	0.10	0.04	0.09	0.03	0.09	<0.02	0.13	0.06	
24-Jul-2024	1.50	1.58	0.12	0.09	0.15	0.19	0.12	0.08	0.12	0.09	0.12	0.08	0.10	0.07	0.09	0.02	0.09	0.04	
25-Jul-2024	1.37	1.54	0.17	0.09	0.12	0.04	0.15	0.09	0.14	0.10	0.09	0.04	0.12	0.06	0.11	0.02	0.10	0.05	
26-Jul-2024	1.25	1.46	0.14	0.06	0.14	0.06	0.20	0.12	0.19	0.15	0.12	0.04	0.12	0.07	0.13	0.04	0.11	0.06	
27-Jul-2024	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	
28-Jul-2024	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	
29-Jul-2024	1.32	2.23	0.15	0.10	0.11	0.03	0.15	0.09	0.13	0.08	0.12	0.02	0.10	0.06	0.13	<0.02	0.13	0.08	
30-Jul-2024	1.19	3.10	0.11	0.09	0.11	0.04	0.20	0.10	0.15	0.10	0.09	0.02	0.10	0.04	0.12	0.02	0.10	0.10	
31-Jul-2024	1.48	1.71	0.12	0.08	0.12	0.04	0.17	0.08	0.11	0.07	0.09	0.02	0.10	0.07	0.09	0.05	0.10	0.12	
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: August 7, 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 August 2024

Report Period: July 2024

Date	BRANCH 1 [mg/L]		BRANCH 2 [mg/L]	
	Average	Minimum	Average	Minimum
01/07/2024	1.45	1.35	1.49	1.37
02/07/2024	1.43	1.30	1.42	1.21
03/07/2024	1.44	1.36	1.44	1.25
04/07/2024	1.49	1.40	1.53	1.43
05/07/2024	1.52	1.37	1.59	1.47
06/07/2024	1.52	1.33	1.56	1.42
07/07/2024	1.66	1.53	1.60	1.45
08/07/2024	1.65	1.42	1.65	1.44
09/07/2024	1.70	1.58	1.64	1.47
10/07/2024	1.67	1.52	1.62	1.54
11/07/2024	1.60	1.52	1.66	1.59
12/07/2024	1.58	1.51	1.68	1.66
13/07/2024	1.59	1.48	1.64	1.49
14/07/2024	1.55	1.41	1.53	1.44
15/07/2024	1.55	1.45	1.54	1.50
16/07/2024	1.50	1.39	1.52	1.48
17/07/2024	1.47	1.35	1.42	1.38
18/07/2024	1.52	1.44	1.44	1.39
19/07/2024	1.49	0.65	1.47	0.65
20/07/2024	1.37	1.06	1.36	1.08
21/07/2024	1.37	1.28	1.48	1.38
22/07/2024	1.39	1.28	1.54	1.42
23/07/2024	1.38	1.29	1.54	1.49
24/07/2024	1.37	1.25	1.53	1.40
25/07/2024	1.36	1.22	1.47	1.37
26/07/2024	1.68	1.36	1.48	1.29
27/07/2024	1.64	1.41	1.50	1.45
28/07/2024	1.48	1.37	1.47	1.36
29/07/2024	1.48	0.88	1.39	0.78
30/07/2024	1.45	1.29	1.24	1.13
31/07/2024	1.54	1.49	1.48	1.14

Total Number of Measurements, A:	21599	21601
Minimum Free Chlorine Standard:	0.5	0.5
Number of Measurements Meeting Standard, B:	21599	21601
COMPLIANCE, C = B/A X 100%:	100.00	100.00

File Path: N:\Water Treatment Branch\Administration\Reports\Regulatory Submissions\Chlorine\2024\07-July

Submitted By (Print): D. Merredew

Signature: original signed by D. Merredew



Water Treatment Plant Chlorine Grab Monitoring Report July 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-Jul-2024	ns	ns	ns	ns	ns	ns
02-Jul-2024	1.41	1.41	1.62	1.46	1.50	1.70
03-Jul-2024	1.47	1.46	1.69	1.48	1.48	1.68
04-Jul-2024	1.47	1.52	1.77	1.54	1.56	1.76
05-Jul-2024	1.64	1.65	1.89	1.66	1.70	1.90
06-Jul-2024	ns	ns	ns	ns	ns	ns
07-Jul-2024	ns	ns	ns	ns	ns	ns
08-Jul-2024	1.69	1.64	1.83	1.52	1.50	1.76
09-Jul-2024	1.64	1.60	1.85	1.70	1.60	1.88
10-Jul-2024	1.65	1.64	1.84	1.62	1.63	1.80
11-Jul-2024	1.57	1.59	1.84	1.66	1.60	1.85
12-Jul-2024	1.60	1.65	1.89	1.67	1.69	1.88
13-Jul-2024	ns	ns	ns	ns	ns	ns
14-Jul-2024	ns	ns	ns	ns	ns	ns
15-Jul-2024	1.62	1.60	1.81	1.60	1.64	1.78
16-Jul-2024	1.49	1.50	1.70	1.52	1.53	1.71
17-Jul-2024	1.51	1.41	1.62	1.42	1.44	1.63
18-Jul-2024	1.49	1.47	1.66	1.42	1.44	1.62
19-Jul-2024	1.81	1.59	1.81	1.55	1.60	1.81
20-Jul-2024	ns	ns	ns	ns	ns	ns
21-Jul-2024	ns	ns	ns	ns	ns	ns
22-Jul-2024	1.42	1.37	1.56	1.55	1.49	1.65
23-Jul-2024	1.37	1.40	1.59	1.53	1.56	1.74
24-Jul-2024	1.49	1.40	1.66	1.57	1.58	1.81
25-Jul-2024	1.36	1.31	1.54	1.48	1.49	1.68
26-Jul-2024	1.76	1.40	1.61	1.49	1.46	1.70
27-Jul-2024	ns	ns	ns	ns	ns	ns
28-Jul-2024	ns	ns	ns	ns	ns	ns
29-Jul-2024	1.53	1.54	1.74	1.48	1.51	1.65
30-Jul-2024	1.33	1.34	1.56	1.15	1.27	1.44
31-Jul-2024	1.52	1.58	1.80	im	1.76	1.88
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: August 7, 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: July 2024

Report Created: Thursday, August 01, 2024

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	
01/07/2024	0.00	0.00	109.67	109.67	0.00	0.00	0.00	0.00	0.00	0.00	94.96	94.96	204.63	204.63	100.00
02/07/2024	46.98	46.98	57.40	57.40	0.00	0.00	0.00	0.00	0.14	0.16	94.01	94.01	198.52	198.54	99.99
03/07/2024	97.79	97.79	0.00	0.00	0.00	0.00	44.83	44.83	0.19	0.21	52.13	52.15	194.94	194.98	99.98
04/07/2024	95.61	95.61	0.00	0.00	0.00	0.00	99.40	99.40	0.00	0.00	0.00	0.00	195.01	195.01	100.00
05/07/2024	95.64	95.64	0.00	0.00	0.00	0.00	99.36	99.36	0.00	0.00	0.00	0.00	195.00	195.00	100.00
06/07/2024	95.68	95.68	0.00	0.00	0.00	0.00	99.30	99.30	0.00	0.00	0.00	0.00	194.98	194.98	100.00
07/07/2024	95.66	95.66	0.00	0.00	0.00	0.00	99.36	99.36	0.00	0.00	0.00	0.00	195.02	195.02	100.00
08/07/2024	102.39	102.39	0.18	0.18	0.00	0.00	36.66	36.66	64.48	64.48	0.00	0.00	203.70	203.70	100.00
09/07/2024	97.27	97.27	0.00	0.00	30.26	30.26	0.00	0.00	96.95	96.95	0.00	0.00	224.48	224.48	100.00
10/07/2024	106.21	106.21	0.00	0.00	21.39	21.39	0.00	0.00	104.08	104.08	0.00	0.00	231.69	231.69	100.00
11/07/2024	116.45	116.45	0.00	0.00	0.00	0.00	0.00	0.00	111.62	111.62	0.00	0.00	228.07	228.07	100.00
12/07/2024	115.55	115.55	0.00	0.00	0.00	0.00	0.00	0.00	111.31	111.31	0.00	0.00	226.86	226.86	100.00
13/07/2024	115.55	115.55	0.00	0.00	0.00	0.00	0.00	0.00	111.22	111.22	0.00	0.00	226.77	226.77	100.00
14/07/2024	112.45	112.45	0.00	0.00	0.00	0.00	0.00	0.00	108.15	108.15	0.00	0.00	220.60	220.60	100.00
15/07/2024	107.76	107.76	0.00	0.00	0.00	0.00	0.00	0.00	103.69	103.69	0.00	0.00	211.44	211.44	100.00
16/07/2024	107.08	107.08	0.00	0.00	0.00	0.00	0.00	0.00	102.92	102.92	0.00	0.00	210.00	210.00	100.00
17/07/2024	107.04	107.04	0.00	0.00	0.00	0.00	0.00	0.00	102.95	102.95	0.00	0.00	210.00	210.00	100.00
18/07/2024	106.63	106.63	0.00	0.00	0.00	0.00	0.00	0.00	102.49	102.49	0.00	0.00	209.13	209.13	100.00
19/07/2024	77.57	77.57	0.00	0.00	0.39	0.39	0.00	0.00	70.35	70.35	0.00	0.00	148.31	148.31	100.00
20/07/2024	0.00	0.00	0.00	0.00	93.30	93.30	0.00	0.00	120.82	120.82	0.00	0.00	214.12	214.12	100.00
21/07/2024	0.00	0.00	0.00	0.00	94.66	94.66	0.00	0.00	121.99	121.99	0.00	0.00	216.65	216.65	100.00
22/07/2024	0.00	0.00	0.00	0.00	93.47	93.47	0.00	0.00	121.37	121.37	0.00	0.00	214.84	214.84	100.00
23/07/2024	0.00	0.00	0.00	0.00	91.02	91.02	0.00	0.00	119.01	119.01	0.00	0.00	210.03	210.03	100.00
24/07/2024	0.00	0.00	0.00	0.00	90.51	90.51	0.00	0.00	118.52	118.52	0.00	0.00	209.03	209.03	100.00
25/07/2024	0.00	0.00	0.00	0.00	91.68	91.68	0.00	0.00	119.74	119.74	0.00	0.00	211.41	211.41	100.00
26/07/2024	0.00	0.00	75.28	75.28	31.03	31.06	0.00	0.00	105.51	105.51	0.00	0.00	211.83	211.85	99.99
27/07/2024	0.00	0.00	113.64	113.64	0.00	0.00	0.00	0.00	98.34	98.34	0.00	0.00	211.98	211.98	100.00
28/07/2024	0.00	0.00	113.69	113.69	0.00	0.00	0.00	0.00	98.30	98.30	0.00	0.00	211.99	211.99	100.00
29/07/2024	0.00	0.00	105.68	105.68	0.00	0.00	0.00	0.00	91.11	91.12	0.00	0.00	196.79	196.80	100.00
30/07/2024	0.00	0.00	117.21	117.21	0.00	0.00	0.00	0.00	67.81	67.81	32.43	32.43	217.45	217.45	100.00
31/07/2024	0.00	0.00	118.33	118.33	0.00	0.00	0.00	0.00	0.00	0.00	104.11	104.11	222.45	222.45	100.00
Total [ML]:	1799.30	1799.30	811.08	811.08	637.71	637.74	478.91	478.91	2373.07	2373.13	377.65	377.66	6477.72	6477.82	

Water Volume [%]:
 To Dose per reactor 100.00 % 100.00 % 100.00 % 100.00 % 100.00 % 100.00 %
 To Dose Total 100.00 %

Notes: 1. Target Log value: 2.00

Submitted By (Print): D. Merreded

Signature: _original signed by D. Merreded



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: July 2024

Report Created: Thursday, August 01, 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.												
01/07/2024	96.4	95.2	95.5	95.0	OL	OL	2.3	1.9	OL	OL	OL	OL	OL	OL	2.5	2.3
02/07/2024	96.1	94.1	95.6	95.0	2.5	2.2	2.3	0.0	OL	OL	OL	OL	2.1	0.0	2.5	1.8
03/07/2024	96.6	96.0	95.6	95.3	2.5	2.3	OL	OL	OL	OL	2.8	2.3	2.7	0.0	2.5	0.0
04/07/2024	96.6	95.8	95.6	95.2	2.5	2.3	OL	OL	OL	OL	2.7	2.4	OL	OL	OL	OL
05/07/2024	96.6	95.9	95.6	95.2	2.5	2.3	OL	OL	OL	OL	2.6	2.3	OL	OL	OL	OL
06/07/2024	96.6	95.4	95.6	95.4	2.5	2.2	OL	OL	OL	OL	2.6	2.3	OL	OL	OL	OL
07/07/2024	96.6	96.0	95.5	95.1	2.5	2.3	OL	OL	OL	OL	2.5	2.3	OL	OL	OL	OL
08/07/2024	96.6	95.8	95.5	95.1	2.5	2.2	2.6	0.0	OL	OL	2.5	0.0	3.4	2.9	OL	OL
09/07/2024	96.6	95.9	95.5	94.9	2.5	2.3	OL	OL	2.6	2.3	OL	OL	3.0	2.5	OL	OL
10/07/2024	96.5	95.8	95.5	94.5	2.5	2.1	OL	OL	2.5	0.0	OL	OL	2.7	2.2	OL	OL
11/07/2024	96.4	95.7	95.4	94.9	2.5	2.3	OL	OL	OL	OL	OL	OL	2.4	2.3	OL	OL
12/07/2024	96.2	95.4	95.2	94.7	2.5	2.2	OL	OL	OL	OL	OL	OL	2.4	2.3	OL	OL
13/07/2024	96.2	95.5	95.2	94.8	2.5	2.3	OL	OL	OL	OL	OL	OL	2.4	2.3	OL	OL
14/07/2024	96.2	95.5	95.2	94.6	2.5	2.2	OL	OL	OL	OL	OL	OL	2.4	2.3	OL	OL
15/07/2024	96.1	95.4	95.1	94.8	2.5	2.2	OL	OL	OL	OL	OL	OL	2.4	2.3	OL	OL
16/07/2024	96.2	95.5	95.2	94.2	2.5	2.3	OL	OL	OL	OL	OL	OL	2.4	2.3	OL	OL
17/07/2024	96.3	94.6	95.2	94.8	2.5	2.2	OL	OL	OL	OL	OL	OL	2.4	2.3	OL	OL
18/07/2024	96.2	95.4	95.1	94.7	2.5	2.2	OL	OL	OL	OL	OL	OL	2.4	2.3	OL	OL
19/07/2024	96.1	95.3	94.9	94.5	2.5	0.0	OL	OL	2.3	0.0	OL	OL	2.5	0.0	OL	OL
20/07/2024	96.2	95.0	95.1	93.9	OL	OL	OL	OL	2.4	2.0	OL	OL	2.4	2.2	OL	OL
21/07/2024	96.4	95.6	95.3	94.9	OL	OL	OL	OL	2.4	2.2	OL	OL	2.4	2.3	OL	OL
22/07/2024	96.3	95.6	95.1	94.9	OL	OL	OL	OL	2.4	2.3	OL	OL	2.4	2.3	OL	OL
23/07/2024	96.2	95.6	95.0	94.7	OL	OL	OL	OL	2.4	2.3	OL	OL	2.4	2.3	OL	OL
24/07/2024	95.8	94.3	94.6	93.3	OL	OL	OL	OL	2.4	2.2	OL	OL	2.4	2.2	OL	OL
25/07/2024	95.9	88.1	94.7	93.9	OL	OL	OL	OL	2.4	2.3	OL	OL	2.4	2.2	OL	OL
26/07/2024	95.7	69.7	94.6	94.2	OL	OL	3.3	0.0	2.5	0.0	OL	OL	2.4	0.0	OL	OL
27/07/2024	95.8	95.0	94.7	94.2	OL	OL	3.0	2.6	OL	OL	OL	OL	2.4	2.3	OL	OL
28/07/2024	95.9	91.2	94.8	93.5	OL	OL	2.8	2.0	OL	OL	OL	OL	2.4	2.3	OL	OL
29/07/2024	95.8	91.0	94.8	93.7	OL	OL	2.8	0.0	OL	OL	OL	OL	2.4	0.0	2.1	0.0
30/07/2024	95.6	92.1	94.6	93.6	OL	OL	2.8	2.3	OL	OL	OL	OL	2.4	0.0	4.1	4.1
31/07/2024	95.9	84.5	94.7	63.8	OL	OL	2.6	1.8	OL	OL	OL	OL	OL	OL	3.3	2.9

Notes: 1. UV target value is 2.00 [Log]
 2. OL - Off Line

Submitted By (Print): D. Merredew

Signature: _original signed by D. Merredew_