

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

December 6, 2024

RE: NOVEMBER 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 November 2024.

The on-line and grab sampling turbidity reports include results obtained for the Water Treatment Plant raw water and the eight filters. Filter 2 was offline for maintenance from October 7 to November 27. The maximum turbidity was greater than 0.30 NTU for Filter 2 on November 27 and Filter 8 on November 17; the elevated turbidities occurred for less than 12 consecutive hours. On November 11, the turbidity on Filter 6 exceeded 1.00 NTU, additional information for the exceedance is provided separately in a Corrective Action Report. With the exception of this event, 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

November 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
1/11/2024	2.46	0.11	0.16	OL	OL	0.07	0.12	0.01	0.05	0.01	0.04	0.04	0.06	0.11	0.14	0.04	0.07
2/11/2024	2.27	0.12	0.16	OL	OL	0.07	0.13	0.01	0.04	0.01	0.04	0.03	0.08	0.11	0.14	0.04	0.07
3/11/2024	2.53	0.10	0.16	OL	OL	0.07	0.13	0.01	0.05	0.02	0.18	0.03	0.07	0.11	0.14	0.04	0.06
4/11/2024	2.65	0.09	0.14	OL	OL	0.07	0.12	0.01	0.05	0.01	0.04	0.03	0.07	0.11	0.14	0.04	0.07
5/11/2024	2.70	0.10	0.18	OL	OL	0.07	0.13	0.01	0.05	0.01	0.04	0.03	0.05	0.11	0.14	0.04	0.07
6/11/2024	2.63	0.10	0.14	OL	OL	0.07	0.14	0.00	0.04	0.02	0.06	0.03	0.07	0.11	0.14	0.04	0.07
7/11/2024	2.55	0.10	0.16	OL	OL	0.07	0.13	0.01	0.04	0.03	0.13	0.03	0.07	0.11	0.13	0.04	0.08
8/11/2024	2.41	0.11	0.16	OL	OL	0.08	0.12	0.01	0.04	0.03	0.06	0.04	0.06	0.11	0.14	0.05	0.07
9/11/2024	2.40	0.08	0.16	OL	OL	0.06	0.13	0.01	0.04	0.04	0.07	0.04	0.07	0.07	0.14	0.05	0.07
10/11/2024	2.28	0.05	0.09	OL	OL	0.03	0.09	0.01	0.04	0.04	0.07	0.04	0.08	0.02	0.04	0.06	0.08
11/11/2024	2.30	0.05	0.09	OL	OL	0.03	0.07	0.01	0.04	0.05	0.08	0.04	1.04	0.03	0.04	0.05	0.08
12/11/2024	2.17	0.05	0.09	OL	OL	0.03	0.07	0.01	0.03	0.06	0.08	0.04	0.07	0.03	0.05	0.05	0.08
13/11/2024	2.12	0.05	0.09	OL	OL	0.03	0.08	0.01	0.05	0.06	0.09	0.04	0.07	0.02	0.04	0.05	0.08
14/11/2024	1.98	0.05	0.09	OL	OL	0.03	0.08	0.01	0.04	0.07	0.10	0.04	0.07	0.03	0.05	0.05	0.08
15/11/2024	1.94	0.05	0.10	OL	OL	0.03	0.14	0.01	0.06	0.08	0.11	0.04	0.08	0.03	0.05	0.05	0.09
16/11/2024	1.77	0.05	0.09	OL	OL	0.04	0.09	0.02	0.05	0.09	0.12	0.04	0.07	0.03	0.05	0.06	0.08
17/11/2024	1.73	0.05	0.09	OL	OL	0.04	0.08	0.02	0.04	0.10	0.13	0.04	0.08	0.03	0.05	0.06	0.49
18/11/2024	1.77	0.05	0.10	OL	OL	0.03	0.09	0.02	0.05	0.05	0.14	0.04	0.08	0.03	0.05	0.06	0.09
19/11/2024	1.62	0.06	0.10	OL	OL	0.05	0.13	0.04	0.07	0.03	0.05	0.05	0.08	0.03	0.05	0.06	0.09
20/11/2024	1.59	0.06	0.11	OL	OL	0.06	0.11	0.06	0.10	0.03	0.06	0.05	0.09	0.03	0.05	0.07	0.10
21/11/2024	1.57	0.05	0.15	OL	OL	0.05	0.18	0.05	0.19	0.02	0.11	0.03	0.11	0.02	0.09	0.05	0.13
22/11/2024	1.52	0.07	0.13	OL	OL	0.09	0.18	0.10	0.16	0.06	0.10	0.06	0.10	0.04	0.05	0.08	0.11
23/11/2024	1.46	0.07	0.15	OL	OL	0.09	0.19	0.11	0.17	0.07	0.10	0.06	0.08	0.04	0.06	0.08	0.12
24/11/2024	1.35	0.07	0.12	OL	OL	0.07	0.14	0.13	0.19	0.07	0.10	0.05	0.08	0.03	0.06	0.08	0.11
25/11/2024	1.29	0.08	0.15	OL	OL	0.07	0.14	0.08	0.20	0.06	0.10	0.04	0.09	0.04	0.06	0.03	0.10
26/11/2024	1.26	0.10	0.15	OL	OL	0.07	0.14	0.01	0.04	0.06	0.09	0.02	0.04	0.04	0.06	0.00	0.03
27/11/2024	1.25	0.08	0.16	0.02	0.50	0.07	0.19	0.02	0.04	0.06	0.09	0.02	0.05	0.04	0.06	0.00	0.02
28/11/2024	1.20	0.10	0.18	0.03	0.11	0.03	0.13	0.00	0.03	0.06	0.11	0.02	0.05	0.03	0.06	0.01	0.03
29/11/2024	1.16	0.09	0.13	0.03	0.06	0.02	0.09	0.00	0.02	0.06	0.11	0.02	0.05	0.03	0.06	0.01	0.02
30/11/2024	1.11	0.08	0.13	0.02	0.21	0.03	0.11	0.00	0.02	0.07	0.11	0.02	0.05	0.03	0.06	0.01	0.04

Total Number of Measurements Taken, A:	15928	1386	16548	14349	16144	15924	15071	14135
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:	15928	1385	16548	14349	16144	15923	15071	14134
Compliance with Turbidity Standard, C = B/A X 100%:	100.000%	99.928%	100.000%	100.000%	100.000%	99.994%	100.000%	99.993%

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Submitted By (Print): D. Merredew

Signature: original signed by D. Merredew

Water Treatment Plant Turbidity Grab Monitoring Report

November 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-Nov-2024	1.05	1.39	0.10	0.13	o/l	o/l	0.10	0.08	0.09	<0.02	0.10	0.03	0.11	0.05	0.11	0.13	0.08	0.06	
02-Nov-2024	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	
03-Nov-2024	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	
04-Nov-2024	1.36	1.27	0.10	0.13	o/l	o/l	0.10	0.08	0.09	<0.02	0.10	0.11	0.08	0.04	0.09	0.11	0.08	0.06	
05-Nov-2024	1.74	1.52	0.09	0.12	o/l	o/l	0.11	0.08	0.10	<0.02	0.08	0.02	0.07	0.03	0.09	0.11	0.08	0.06	
06-Nov-2024	1.51	1.55	0.08	0.11	o/l	o/l	0.15	0.09	0.12	0.02	0.11	0.03	0.12	0.05	0.11	0.11	0.11	0.06	
07-Nov-2024	1.48	1.50	0.10	0.12	o/l	o/l	0.09	0.09	0.09	0.03	0.07	0.03	0.20	0.22	0.09	0.11	0.08	0.06	
08-Nov-2024	1.47	1.50	0.12	0.13	o/l	o/l	0.10	0.09	0.09	0.03	0.08	0.04	0.17	0.15	0.07	0.11	0.07	0.06	
09-Nov-2024	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	
10-Nov-2024	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	
11-Nov-2024	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	
12-Nov-2024	1.40	1.43	0.09	0.07	o/l	o/l	0.10	0.08	0.08	<0.02	0.07	0.07	0.07	0.05	0.07	0.02	0.07	0.07	
13-Nov-2024	1.39	1.34	0.09	0.07	o/l	o/l	0.09	0.04	0.09	0.02	0.08	0.07	0.08	0.05	0.10	0.03	0.08	0.07	
14-Nov-2024	1.47	1.27	0.08	0.06	o/l	o/l	0.09	0.03	0.08	<0.02	0.08	0.09	0.07	0.05	0.08	0.03	0.09	0.08	
15-Nov-2024	1.47	1.37	0.08	0.06	o/l	o/l	0.09	0.05	0.08	0.02	0.08	0.10	0.08	0.05	0.08	0.02	0.09	0.08	
16-Nov-2024	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	
17-Nov-2024	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	
18-Nov-2024	1.20	1.18	0.07	0.06	o/l	o/l	0.08	0.06	0.08	0.03	0.08	0.04	0.08	0.06	0.08	0.03	0.08	0.06	
19-Nov-2024	1.46	1.39	0.09	0.06	o/l	o/l	0.10	0.06	0.10	0.06	0.09	0.04	0.08	0.06	0.08	0.03	0.08	0.08	
20-Nov-2024	1.17	1.07	0.09	0.07	o/l	o/l	0.11	0.07	0.11	0.07	0.10	0.04	0.10	0.07	0.09	0.02	0.08	0.08	
21-Nov-2024	0.90	1.00	0.13	0.09	o/l	o/l	0.16	0.12	0.14	0.13	0.09	0.04	0.11	0.10	0.09	0.02	0.10	0.09	
22-Nov-2024	1.23	1.59	0.12	0.10	o/l	o/l	0.16	0.11	0.11	0.10	0.09	0.08	0.09	0.08	0.08	0.03	0.09	0.10	
23-Nov-2024	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	
24-Nov-2024	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	
25-Nov-2024	1.06	1.31	0.12	0.09	o/l	o/l	0.17	0.08	0.13	0.17	0.09	0.09	0.13	0.07	0.10	0.04	0.09	0.02	
26-Nov-2024	0.87	0.87	0.11	0.11	o/l	o/l	0.15	0.09	0.11	0.02	0.08	0.08	0.09	0.03	0.09	0.05	0.09	0.02	
27-Nov-2024	0.94	0.84	0.10	0.11	0.13	nr	0.14	0.08	0.10	<0.02	0.08	0.08	0.08	0.03	0.07	0.03	0.07	<0.02	
28-Nov-2024	0.86	0.82	0.09	0.11	0.09	0.04	0.11	0.04	0.11	0.02	0.11	0.09	0.08	0.04	0.07	0.03	0.07	<0.02	
29-Nov-2024	0.93	0.84	0.10	0.11	0.08	0.03	0.13	0.05	0.10	<0.02	0.09	0.09	0.09	0.04	0.07	0.03	0.08	<0.02	
30-Nov-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:			20		3		20		20		20		20		20		20		
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:			20		3		20		20		20		20		20		20		
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:

Report Date: December 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 December 2024

Report Period: November 2024

Date	BRANCH 1 [mg/L]		BRANCH 2 [mg/L]	
	Average	Minimum	Average	Minimum
01/11/2024	1.63	1.44	1.77	1.61
02/11/2024	1.86	1.81	1.91	1.78
03/11/2024	1.83	1.77	1.77	1.70
04/11/2024	1.82	1.74	1.76	1.68
05/11/2024	1.73	1.61	1.70	1.58
06/11/2024	1.62	1.55	1.58	1.51
07/11/2024	1.64	1.54	1.58	1.50
08/11/2024	1.73	1.67	1.66	1.60
09/11/2024	1.65	1.46	1.64	1.58
10/11/2024	1.61	1.44	1.63	1.58
11/11/2024	1.57	1.37	1.57	1.37
12/11/2024	1.44	1.25	1.37	1.35
13/11/2024	1.54	1.51	1.42	1.38
14/11/2024	1.59	1.52	1.47	1.40
15/11/2024	1.44	1.00	1.36	1.01
16/11/2024	1.53	1.46	1.37	1.30
17/11/2024	1.44	1.40	1.27	1.22
18/11/2024	1.50	1.43	1.35	1.29
19/11/2024	1.44	1.36	1.35	1.27
20/11/2024	1.45	1.40	1.37	1.18
21/11/2024	1.49	1.39	1.45	1.34
22/11/2024	1.58	1.41	1.51	1.40
23/11/2024	1.42	1.38	1.46	1.34
24/11/2024	1.43	1.36	1.39	1.27
25/11/2024	1.54	1.41	1.50	1.28
26/11/2024	1.57	1.54	1.58	1.51
27/11/2024	1.58	1.51	1.60	1.46
28/11/2024	1.66	1.55	1.64	1.55
29/11/2024	1.66	1.53	1.62	1.51
30/11/2024	1.66	1.42	1.53	1.34

Total Number of Measurements, A:	20916	20915
Minimum Free Chlorine Standard:	0.5	0.5
Number of Measurements Meeting Standard, B:	20916	20915
COMPLIANCE, C = B/A X 100%:	100.00	100.00

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



Water Treatment Plant Chlorine Grab Monitoring Report November 2024

Water System Code: 252.00		Deacon Booster Pumping Station Branch 1			Deacon Booster Pumping Station Branch 2		
Licence No. PWS-09-412-02 AA							
Date	Free Chlorine (mg/L)		Total Chlorine (mg/L)	Free Chlorine (mg/L)		Total Chlorine (mg/L)	
	Analyser	Grab	Grab	Analyser	Grab	Grab	
01-Nov-2024	1.45	1.65	1.80	1.68	1.77	1.92	
02-Nov-2024	ns	ns	ns	ns	ns	ns	
03-Nov-2024	1.83	1.77	2.01	1.76	1.79	2.02	
04-Nov-2024	ns	ns	ns	ns	ns	ns	
05-Nov-2024	1.67	1.70	1.90	1.65	1.70	1.89	
06-Nov-2024	1.66	1.77	1.95	1.61	1.72	1.94	
07-Nov-2024	1.70	1.59	1.81	1.60	1.57	1.82	
08-Nov-2024	1.77	1.70	1.92	1.67	1.69	1.94	
09-Nov-2024	ns	ns	ns	ns	ns	ns	
10-Nov-2024	ns	ns	ns	ns	ns	ns	
11-Nov-2024	ns	ns	ns	ns	ns	ns	
12-Nov-2024	1.50	1.47	1.66	1.38	1.42	1.53	
13-Nov-2024	1.55	1.50	1.77	1.43	1.48	1.65	
14-Nov-2024	1.53	1.48	1.71	1.42	1.41	1.58	
15-Nov-2024	1.50	1.56	1.73	1.40	1.39	1.58	
16-Nov-2024	ns	ns	ns	ns	ns	ns	
17-Nov-2024	ns	ns	ns	ns	ns	ns	
18-Nov-2024	1.55	1.45	1.56	1.43	1.34	1.48	
19-Nov-2024	1.48	1.54	1.77	1.40	1.42	1.60	
20-Nov-2024	1.44	1.53	1.73	1.35	1.47	1.69	
21-Nov-2024	1.47	1.48	1.70	1.44	1.54	1.72	
22-Nov-2024	1.70	1.61	1.90	1.69	1.76	1.97	
23-Nov-2024	ns	ns	ns	ns	ns	ns	
24-Nov-2024	ns	ns	ns	ns	ns	ns	
25-Nov-2024	1.48	1.56	1.77	1.42	1.60	1.75	
26-Nov-2024	1.59	1.68	1.94	1.60	1.67	1.91	
27-Nov-2024	1.63	1.65	1.85	1.66	1.65	1.85	
28-Nov-2024	1.70	1.74	1.96	1.61	1.69	1.93	
29-Nov-2024	1.61	1.67	1.90	1.65	1.69	1.86	
30-Nov-2024	ns	ns	ns	ns	ns	ns	
Total number of measurements taken, A: Chlorine Standard for Monitoring Location (mg/L): Number of measurements meeting standard, B: Compliance with Chlorine Standard, C= B/A X 100%:		20			20		
		0.50			0.50		
		20			20		
		100%			100%		

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

Comments:

Report Date: December 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: **November 2024**

Report Created: **Sunday, December 01, 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	
01/11/2024	0.00	0.00	10.77	10.77	0.00	0.00	86.08	86.08	87.69	87.69	0.00	0.00	184.53	184.54	100.00
02/11/2024	0.00	0.00	0.00	0.00	0.00	0.00	96.49	96.49	87.54	87.54	0.00	0.00	184.03	184.03	100.00
03/11/2024	0.00	0.00	0.00	0.00	0.00	0.00	96.53	96.53	87.61	87.61	0.00	0.00	184.14	184.14	100.00
04/11/2024	0.00	0.00	0.00	0.00	0.00	0.00	96.51	96.51	87.50	87.50	0.00	0.00	184.01	184.01	100.00
05/11/2024	0.00	0.00	0.00	0.00	0.00	0.00	96.67	96.67	87.33	87.33	0.00	0.00	183.99	183.99	100.00
06/11/2024	0.00	0.00	0.00	0.00	0.00	0.00	96.67	96.67	87.32	87.32	0.00	0.00	183.99	183.99	100.00
07/11/2024	0.00	0.00	0.00	0.00	0.00	0.00	96.56	96.56	87.44	87.44	0.00	0.00	184.00	184.00	100.00
08/11/2024	0.00	0.00	0.00	0.00	0.00	0.00	95.06	95.06	85.94	85.94	0.00	0.00	181.00	181.00	100.00
09/11/2024	0.00	0.00	0.00	0.00	0.00	0.00	94.96	94.96	85.44	85.44	0.00	0.00	180.40	180.40	100.00
10/11/2024	0.00	0.00	0.00	0.00	0.00	0.00	95.23	95.23	85.78	85.78	0.00	0.00	181.01	181.01	100.00
11/11/2024	0.00	0.00	0.00	0.00	0.00	0.00	95.24	95.24	85.75	85.75	0.00	0.00	180.99	180.99	100.00
12/11/2024	54.78	54.78	0.00	0.00	0.00	0.00	94.13	94.13	32.12	32.12	0.00	0.00	181.03	181.03	100.00
13/11/2024	91.90	91.90	0.00	0.00	0.00	0.00	96.03	96.03	0.00	0.00	0.00	0.00	187.93	187.93	100.00
14/11/2024	92.51	92.51	0.00	0.00	0.00	0.00	94.42	94.42	0.00	0.00	0.00	0.00	186.93	186.93	100.00
15/11/2024	84.17	84.17	0.00	0.00	0.00	0.00	88.98	88.98	0.00	0.00	0.00	0.00	173.15	173.15	100.00
16/11/2024	89.00	89.00	0.00	0.00	0.00	0.00	91.01	91.01	0.00	0.00	0.00	0.00	180.00	180.00	100.00
17/11/2024	89.26	89.26	0.00	0.00	0.00	0.00	91.33	91.33	0.00	0.00	0.00	0.00	180.59	180.59	100.00
18/11/2024	92.75	92.75	0.00	0.00	0.00	0.00	94.61	94.61	0.00	0.00	0.00	0.00	187.35	187.35	100.00
19/11/2024	94.11	94.11	0.00	0.00	0.00	0.00	95.90	95.90	0.00	0.00	0.00	0.00	190.01	190.01	100.00
20/11/2024	94.60	94.60	0.00	0.00	59.60	59.60	35.77	35.79	0.00	0.00	0.00	0.00	189.97	189.98	99.99
21/11/2024	55.73	55.73	0.00	0.00	59.19	59.19	0.07	0.07	0.00	0.00	0.00	0.00	114.98	114.98	100.00
22/11/2024	95.12	95.32	0.00	0.00	40.14	40.22	61.70	61.70	0.00	0.00	0.00	0.00	196.97	197.24	99.86
23/11/2024	96.32	96.32	0.00	0.00	0.00	0.00	101.71	101.71	0.00	0.00	0.00	0.00	198.03	198.03	100.00
24/11/2024	96.71	96.71	0.00	0.00	0.00	0.00	102.55	102.55	0.00	0.00	0.00	0.00	199.26	199.26	100.00
25/11/2024	97.20	97.20	0.00	0.00	0.00	0.00	102.80	102.80	0.00	0.00	0.00	0.00	200.00	200.00	100.00
26/11/2024	96.58	96.58	0.00	0.00	0.00	0.00	101.44	101.44	0.00	0.00	0.00	0.00	198.02	198.02	100.00
27/11/2024	93.92	93.92	0.00	0.00	0.00	0.00	99.34	99.34	0.00	0.00	0.00	0.00	193.25	193.25	100.00
28/11/2024	93.89	93.89	0.00	0.00	0.00	0.00	97.48	97.48	0.00	0.00	0.00	0.00	191.37	191.37	100.00
29/11/2024	96.14	96.14	0.00	0.00	0.00	0.00	98.20	98.20	0.00	0.00	0.00	0.00	194.33	194.33	100.00
30/11/2024	94.98	94.98	0.00	0.00	10.47	10.47	87.56	87.56	0.00	0.00	0.00	0.00	193.02	193.02	100.00
Total [ML]:	1699.63	1699.83	10.77	10.77	169.41	169.48	2681.02	2681.04	987.45	987.45	0.00	0.00	5548.28	5548.57	

Water Volume [%]:
To Dose per reactor 99.99 % 100.00 % 99.96 % 100.00 % 100.00 % OL %
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: **November 2024**

Report Created: **Sunday, December 01, 2024**

Date	Transmittance (%)				UVR_D100A		UVR_D200A		UVR_D300A		UVR_D400A		UVR_D500A		UVR_D600A	
	Branch 1		Branch 2		[Log]		[Log]		[Log]		[Log]		[Log]		[Log]	
	Avg.	Min.	Avg.	Min.	Avg.	Min.	Avg.	Min.	Avg.	Min.	Avg.	Min.	Avg.	Min.	Avg.	Min.
01/11/2024	95.2	94.1	94.3	0.1	OL	OL	4.1	4.0	OL	OL	2.8	0.0	2.5	2.1	OL	OL
02/11/2024	95.1	94.4	94.3	89.0	OL	OL	OL	OL	OL	OL	2.5	2.2	2.5	1.9	OL	OL
03/11/2024	95.1	94.5	94.3	91.8	OL	OL	OL	OL	OL	OL	2.5	2.3	2.5	2.3	OL	OL
04/11/2024	95.2	94.5	94.4	91.2	OL	OL	OL	OL	OL	OL	2.5	2.3	2.5	2.2	OL	OL
05/11/2024	95.2	94.4	94.5	92.3	OL	OL	OL	OL	OL	OL	2.5	2.3	2.5	2.2	OL	OL
06/11/2024	95.1	94.5	94.4	92.4	OL	OL	OL	OL	OL	OL	2.5	2.2	2.5	1.9	OL	OL
07/11/2024	95.1	94.6	94.4	89.3	OL	OL	OL	OL	OL	OL	2.5	2.1	2.5	2.0	OL	OL
08/11/2024	95.1	94.3	94.4	92.7	OL	OL	OL	OL	OL	OL	2.5	2.2	2.5	2.3	OL	OL
09/11/2024	95.2	94.6	94.4	91.9	OL	OL	OL	OL	OL	OL	2.5	2.2	2.5	2.1	OL	OL
10/11/2024	95.1	94.5	94.3	89.4	OL	OL	OL	OL	OL	OL	2.5	2.0	2.5	1.9	OL	OL
11/11/2024	95.1	94.1	94.3	91.3	OL	OL	OL	OL	OL	OL	2.5	2.2	2.4	2.2	OL	OL
12/11/2024	95.0	94.4	94.5	88.8	3.4	2.6	OL	OL	OL	OL	2.5	2.2	2.5	2.3	OL	OL
13/11/2024	94.8	94.0	94.4	91.8	2.6	2.2	OL	OL	OL	OL	2.5	2.0	OL	OL	OL	OL
14/11/2024	94.8	93.7	94.3	91.9	2.5	2.2	OL	OL	OL	OL	2.5	2.3	OL	OL	OL	OL
15/11/2024	94.8	93.9	94.5	92.7	2.8	2.2	OL	OL	OL	OL	2.5	1.7	OL	OL	OL	OL
16/11/2024	94.8	94.0	94.7	79.5	2.5	2.2	OL	OL	OL	OL	2.5	2.2	OL	OL	OL	OL
17/11/2024	94.8	94.1	95.0	61.4	2.5	2.3	OL	OL	OL	OL	2.5	2.1	OL	OL	OL	OL
18/11/2024	94.8	93.6	95.2	93.2	2.5	2.2	OL	OL	OL	OL	2.5	2.3	OL	OL	OL	OL
19/11/2024	94.5	93.8	95.0	67.3	2.5	2.2	OL	OL	OL	OL	2.5	2.2	OL	OL	OL	OL
20/11/2024	94.5	93.8	95.3	91.5	2.5	2.2	OL	OL	2.9	0.0	2.5	0.0	OL	OL	OL	OL
21/11/2024	94.1	93.2	95.8	93.9	2.8	2.2	OL	OL	3.0	2.2	2.5	2.5	OL	OL	OL	OL
22/11/2024	94.1	93.5	96.0	91.0	2.5	0.0	OL	OL	2.5	0.0	2.5	2.2	OL	OL	OL	OL
23/11/2024	94.1	93.2	96.4	90.5	2.5	2.3	OL	OL	OL	OL	2.5	2.1	OL	OL	OL	OL
24/11/2024	94.2	93.1	95.7	87.2	2.5	2.2	OL	OL	OL	OL	2.5	1.9	OL	OL	OL	OL
25/11/2024	94.2	93.2	94.9	90.2	2.5	2.3	OL	OL	OL	OL	2.5	2.0	OL	OL	OL	OL
26/11/2024	94.3	93.4	94.5	90.0	2.5	2.3	OL	OL	OL	OL	2.5	2.0	OL	OL	OL	OL
27/11/2024	94.3	93.7	95.6	89.3	2.5	2.1	OL	OL	OL	OL	2.5	1.9	OL	OL	OL	OL
28/11/2024	95.1	94.3	97.5	94.1	2.5	2.2	OL	OL	OL	OL	2.5	1.7	OL	OL	OL	OL
29/11/2024	95.1	94.3	98.6	0.6	2.5	2.2	OL	OL	OL	OL	2.5	1.4	OL	OL	OL	OL
30/11/2024	94.8	94.0	99.3	0.0	2.5	2.0	OL	OL	4.1	4.0	2.4	1.6	OL	OL	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