

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

April 7, 2025

RE: MARCH 2025 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 March 2025.

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 7 on March 5; the elevated turbidity occurred for less than 12 consecutive hours. On March 5, the turbidity on Filter 1 and on March 19 the turbidity on Filter 4 exceeded 1.00 NTU; additional information for these exceedances are provided separately in Corrective Action Reports. With the exception of these two events, 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,



N. Crawford
Acting 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

March 2025 Turbidity (NTU)																	
	Raw	Filter #1		Filter #2		Filter #3		Filter #4		Filter #5		Filter #6		Filter #7		Filter #8	
Date	Avg	Avg	Max	Avg	Max	Avg	Max	Avg	Max	Avg	Max	Avg	Max	Avg	Max	Avg	Max
1/03/2025	0.74	0.00	0.12	0.03	0.11	OL	OL	0.02	0.05	0.02	0.06	0.01	0.03	0.02	0.05	0.00	0.01
2/03/2025	0.74	0.00	0.11	0.02	0.07	OL	OL	0.02	0.05	0.01	0.04	0.00	0.01	0.02	0.04	0.00	0.00
3/03/2025	0.74	0.00	0.13	0.02	0.05	OL	OL	0.02	0.05	0.01	0.04	0.01	0.03	0.02	0.05	0.05	0.04
4/03/2025	0.74	0.01	0.27	0.02	0.13	OL	OL	0.03	0.06	0.01	0.05	0.00	0.03	0.02	0.05	0.05	0.00
5/03/2025	0.68	0.06	1.72	0.02	0.18	OL	OL	0.02	0.16	0.01	0.12	0.01	0.21	0.01	0.32	0.02	0.14
6/03/2025	0.57	0.07	0.30	0.04	0.21	OL	OL	0.02	0.15	0.01	0.04	0.01	0.06	0.02	0.06	0.02	0.05
7/03/2025	0.59	0.05	0.09	0.02	0.04	OL	OL	0.01	0.06	0.02	0.04	0.03	0.06	0.03	0.05	0.02	0.05
8/03/2025	0.60	0.05	0.09	0.02	0.03	OL	OL	0.01	0.03	0.01	0.03	0.03	0.06	0.03	0.05	0.02	0.04
9/03/2025	0.60	0.05	0.08	0.01	0.04	OL	OL	0.01	0.03	0.01	0.03	0.04	0.05	0.03	0.05	0.02	0.04
10/03/2025	0.60	0.05	0.09	0.02	0.03	OL	OL	0.00	0.03	0.01	0.03	0.03	0.09	0.03	0.05	0.02	0.04
11/03/2025	0.61	0.09	0.13	0.05	0.09	OL	OL	0.03	0.08	0.03	0.08	0.04	0.09	0.04	0.09	0.03	0.07
12/03/2025	0.60	0.07	0.12	0.03	0.07	OL	OL	0.02	0.06	0.02	0.04	0.03	0.05	0.03	0.05	0.02	0.06
13/03/2025	0.61	0.06	0.11	0.02	0.06	OL	OL	0.02	0.05	0.01	0.04	0.03	0.07	0.03	0.05	0.02	0.26
14/03/2025	0.61	0.07	0.11	0.03	0.07	OL	OL	0.02	0.06	0.01	0.05	0.03	0.06	0.03	0.06	0.02	0.06
15/03/2025	0.60	0.06	0.11	0.02	0.06	OL	OL	0.02	0.07	0.01	0.05	0.03	0.05	0.03	0.05	0.02	0.04
16/03/2025	0.61	0.06	0.11	0.02	0.06	OL	OL	0.02	0.05	0.01	0.04	0.03	0.14	0.03	0.06	0.02	0.15
17/03/2025	0.62	0.06	0.11	0.02	0.05	0.01	0.25	0.02	0.06	0.01	0.03	0.03	0.07	0.02	0.04	0.02	0.05
18/03/2025	0.62	0.06	0.18	0.01	0.04	0.02	0.05	0.02	0.06	0.01	0.09	0.04	0.06	0.03	0.06	0.02	0.05
19/03/2025	1.68	0.06	0.11	0.03	0.06	0.02	0.05	0.01	5.00	0.02	0.06	0.04	0.09	0.02	0.05	0.02	0.05
20/03/2025	0.61	0.06	0.10	0.02	0.06	0.02	0.05	0.00	0.03	0.01	0.03	0.03	0.06	0.03	0.05	0.01	0.03
21/03/2025	0.61	0.07	0.11	0.03	0.06	0.02	0.06	0.00	0.04	0.01	0.03	0.03	0.06	0.03	0.04	0.02	0.05
22/03/2025	0.63	0.06	0.11	0.02	0.04	0.02	0.06	0.01	0.04	0.01	0.03	0.04	0.05	0.03	0.06	0.02	0.05
23/03/2025	0.64	0.06	0.09	0.03	0.06	0.02	0.06	0.00	0.05	0.01	0.02	0.04	0.07	0.03	0.05	0.01	0.04
24/03/2025	0.76	0.05	0.18	0.02	0.16	0.02	0.10	0.00	0.10	0.01	0.03	0.03	0.07	0.02	0.06	0.01	0.04
25/03/2025	0.58	0.06	0.10	0.02	0.07	0.02	0.05	0.00	0.03	0.01	0.07	0.04	0.07	0.03	0.04	0.02	0.04
26/03/2025	0.62	0.07	0.13	0.03	0.04	0.02	0.09	0.01	0.05	0.02	0.14	0.05	0.07	0.03	0.05	0.02	0.05
27/03/2025	0.61	0.08	0.11	0.03	0.08	0.02	0.04	0.01	0.05	0.02	0.04	0.04	0.07	0.03	0.05	0.02	0.05
28/03/2025	0.59	0.07	0.12	0.03	0.07	0.03	0.07	0.01	0.04	0.01	0.04	0.05	0.08	0.03	0.06	0.02	0.03
29/03/2025	0.55	0.06	0.12	0.03	0.07	0.02	0.07	0.01	0.05	0.02	0.04	0.05	0.09	0.03	0.04	0.02	0.05
30/03/2025	0.51	0.06	0.11	0.02	0.07	0.02	0.06	0.01	0.03	0.02	0.03	0.07	0.08	0.03	0.05	0.02	0.05
31/03/2025	0.50	0.06	0.09	0.03	0.06	0.02	0.06	0.00	0.03	0.01	0.04	0.08	0.11	0.03	0.05	0.02	0.04
Total Number of Measurements Taken, A:		13304		14173		6207		12656		15703		15086		15108		12533	
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:		13289		14173		6207		12654		15703		15086		15107		12533	
Compliance with Turbidity Standard, C = B/A X 100%:		99.887%		100.000%		100.00%		99.984%		100.000%		100.000%		99.993%		100.000%	
OL = off line																	

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Submitted By (Print): H. Buhler

Signature: original signed by H. Buhler



Water Treatment Plant Turbidity Grab Monitoring Report March 2025

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-Mar-2025	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	
02-Mar-2025	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	
03-Mar-2025	0.47	0.52	0.09	<0.02	0.08	0.03	o/l	o/l	0.09	0.03	0.10	0.03	0.08	<0.02	0.09	0.02	0.09	<0.02	
04-Mar-2025	0.54	0.51	0.08	<0.02	0.08	0.02	o/l	o/l	0.08	0.03	0.08	0.03	0.09	<0.02	0.10	0.02	0.09	<0.02	
05-Mar-2025	0.55	0.52	0.10	<0.02	0.09	0.03	o/l	o/l	0.09	0.03	0.08	0.02	0.08	<0.02	0.08	<0.02	0.08	<0.02	
06-Mar-2025	0.52	0.42	0.09	0.07	0.12	0.07	o/l	o/l	0.09	0.02	0.08	0.03	0.08	<0.02	0.08	<0.02	0.09	0.03	
07-Mar-2025	0.57	0.42	0.08	0.07	0.09	0.02	o/l	o/l	0.10	0.02	0.08	0.03	0.08	0.04	0.08	0.02	0.08	0.03	
08-Mar-2025	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	
09-Mar-2025	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	
10-Mar-2025	0.54	0.43	0.08	0.06	0.08	0.02	o/l	o/l	0.07	<0.02	0.09	0.03	0.08	0.04	0.10	0.03	0.07	0.02	
11-Mar-2025	0.54	0.43	0.12	0.10	0.12	0.06	o/l	o/l	0.11	0.03	0.10	0.04	0.11	0.08	0.10	0.03	0.10	0.04	
12-Mar-2025	0.54	0.42	0.10	0.08	0.10	0.04	o/l	o/l	0.09	0.02	0.07	0.03	0.09	0.05	0.08	0.02	0.07	0.03	
13-Mar-2025	0.55	0.43	0.09	0.07	0.10	0.04	o/l	o/l	0.10	0.03	0.07	0.02	0.10	0.06	0.13	0.08	0.07	0.03	
14-Mar-2025	0.53	0.42	0.12	0.09	0.10	0.04	o/l	o/l	0.10	0.04	0.08	0.03	0.07	0.04	0.07	0.02	0.08	0.02	
15-Mar-2025	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	
16-Mar-2025	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	
17-Mar-2025	0.67	0.60	0.11	0.08	0.08	0.02	0.09	0.03	0.11	0.02	0.09	0.02	0.12	0.04	0.09	0.03	0.09	0.03	
18-Mar-2025	0.64	0.57	0.20	0.16	0.09	0.02	ns	ns	0.13	0.06	0.09	0.05	0.08	0.06	0.08	0.03	0.08	0.04	
19-Mar-2025	0.57	0.42	0.09	0.07	0.10	0.03	0.08	0.03	0.08	<0.02	0.10	0.04	0.08	0.05	0.09	0.03	0.08	0.03	
20-Mar-2025	0.53	0.45	0.11	0.08	0.09	0.04	0.08	0.03	0.09	<0.02	0.07	0.02	0.07	0.04	0.07	0.02	0.07	0.02	
21-Mar-2025	0.55	0.43	0.09	0.07	0.08	0.02	0.09	0.03	0.11	0.02	0.07	0.02	0.07	0.04	0.07	0.02	0.07	0.03	
22-Mar-2025	ns	ns	ns	ns	ns	ns	0.11	0.05	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	
23-Mar-2025	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	
24-Mar-2025	0.53	0.45	0.10	0.07	0.10	0.04	0.08	0.02	0.10	<0.02	0.07	<0.02	0.08	0.05	0.08	0.02	0.08	0.03	
25-Mar-2025	0.54	0.43	0.08	0.06	0.08	0.02	0.09	0.03	0.12	0.02	0.08	<0.02	0.07	0.04	0.08	0.03	0.08	0.03	
26-Mar-2025	0.55	0.45	0.09	0.07	0.09	0.03	0.08	0.02	0.08	<0.02	0.08	0.02	0.07	0.06	0.08	0.03	0.09	0.04	
27-Mar-2025	0.54	0.45	0.10	0.08	0.09	0.04	0.08	0.03	0.09	<0.02	0.07	0.02	0.08	0.05	0.09	0.04	0.07	0.02	
28-Mar-2025	0.55	0.46	0.11	0.08	0.13	0.06	0.09	0.04	0.10	0.02	0.07	0.03	0.08	0.07	0.07	0.03	0.07	0.03	
29-Mar-2025	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	
30-Mar-2025	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	
31-Mar-2025	0.57	0.61	0.08	0.06	0.08	0.03	0.07	0.02	0.07	<0.02	0.08	0.02	0.07	0.09	0.08	0.03	0.07	0.03	
Total number of measurements taken, A:			21		21		11		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		11		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/l: offline im: instrument maintenance

Comments:

Filter 3 was offline for maintenance from January 20 at 5:47 pm to March 17 at 6:19 pm

Report Date: April 7, 2025

**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 April 2025

Report Period: March 2025

Date	BRANCH 1 [mg/L]		BRANCH 2 [mg/L]	
	Average	Minimum	Average	Minimum
01/03/2025	1.18	1.11	1.21	1.14
02/03/2025	1.21	1.16	1.24	1.19
03/03/2025	1.25	1.18	1.25	1.19
04/03/2025	1.29	1.06	1.29	1.22
05/03/2025	1.27	1.11	1.25	1.19
06/03/2025	1.47	1.16	1.28	1.11
07/03/2025	1.33	1.08	1.28	1.01
08/03/2025	1.33	1.23	1.34	1.28
09/03/2025	1.29	1.22	1.28	1.21
10/03/2025	1.27	1.21	1.26	1.13
11/03/2025	1.30	1.23	1.33	1.28
12/03/2025	1.29	1.23	1.30	1.25
13/03/2025	1.26	1.19	1.25	1.22
14/03/2025	1.25	1.21	1.23	1.19
15/03/2025	1.21	1.14	1.19	1.15
16/03/2025	1.20	1.15	1.22	1.14
17/03/2025	1.19	1.12	1.18	1.09
18/03/2025	1.22	1.15	1.19	1.14
19/03/2025	1.23	0.90	1.21	0.80
20/03/2025	1.18	1.10	1.12	0.89
21/03/2025	1.21	1.16	1.21	1.14
22/03/2025	1.21	1.17	1.21	1.15
23/03/2025	1.21	1.16	1.22	1.16
24/03/2025	1.18	1.15	1.23	1.02
25/03/2025	OL	OL	1.28	1.20
26/03/2025	OL	OL	1.30	1.25
27/03/2025	OL	OL	1.29	1.26
28/03/2025	OL	OL	1.26	1.13
29/03/2025	OL	OL	1.18	1.13
30/03/2025	OL	OL	1.16	1.12
31/03/2025	1.22	1.17	1.24	1.15

Total Number of Measurements, A: 21495 21496
Minimum Free Chlorine Standard: 0.5 0.5
Number of Measurements Meeting Standard, B: 21495 21496
COMPLIANCE, C = B/A X 100%: 100.00 100.00
OL = off line

File Path: N:\Water Treatment Branch\Administration\Reports\Regulatory Submissions\Chlorine\2025\03-March

Submitted By (Print): H. BuhlerSignature: original signed by H. Buhler



Water Treatment Plant Chlorine Grab Monitoring Report March 2025

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-Mar-2025	ns	ns	ns	ns	ns	ns	
02-Mar-2025	ns	ns	ns	ns	ns	ns	
03-Mar-2025	1.22	1.23	1.41	1.28	1.25	1.49	
04-Mar-2025	1.31	1.33	1.54	1.25	1.38	1.54	
05-Mar-2025	1.32	1.38	1.52	1.31	1.36	1.53	
06-Mar-2025	1.34	1.42	1.61	1.35	1.42	1.58	
07-Mar-2025	1.26	1.30	1.47	1.16	1.31	1.44	
08-Mar-2025	ns	ns	ns	ns	ns	ns	
09-Mar-2025	ns	ns	ns	ns	ns	ns	
10-Mar-2025	1.27	1.25	1.41	1.24	1.22	1.37	
11-Mar-2025	1.30	1.43	1.55	1.35	1.41	1.66	
12-Mar-2025	1.32	1.32	1.54	1.32	1.33	1.54	
13-Mar-2025	1.24	1.23	1.47	1.25	1.25	1.47	
14-Mar-2025	1.24	1.23	1.41	1.22	1.30	1.45	
15-Mar-2025	ns	ns	ns	ns	ns	ns	
16-Mar-2025	ns	ns	ns	ns	ns	ns	
17-Mar-2025	1.16	1.28	1.43	1.20	1.24	1.41	
18-Mar-2025	1.26	1.26	1.44	1.21	1.25	1.46	
19-Mar-2025	1.20	1.25	1.42	1.16	1.28	1.42	
20-Mar-2025	1.21	1.23	1.50	1.18	1.23	1.44	
21-Mar-2025	1.17	1.24	1.42	1.22	1.21	1.44	
22-Mar-2025	ns	ns	ns	ns	ns	ns	
23-Mar-2025	ns	ns	ns	ns	ns	ns	
24-Mar-2025	1.24	1.24	1.47	1.20	1.29	1.44	
25-Mar-2025	o/l	o/l	o/l	1.26	1.29	1.49	
26-Mar-2025	o/l	o/l	o/l	1.29	1.33	1.49	
27-Mar-2025	o/l	o/l	o/l	1.20	1.24	1.51	
28-Mar-2025	o/l	o/l	o/l	1.28	1.28	1.52	
29-Mar-2025	ns	ns	ns	ns	ns	ns	
30-Mar-2025	ns	ns	ns	ns	ns	ns	
31-Mar-2025	1.37	1.13	1.27	1.26	1.21	1.47	
Total number of measurements taken, A:		17		21			
Chlorine Standard for Monitoring Location (mg/L):		0.50		0.50			
Number of measurements meeting standard, B:		17		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:

Branch 1 was offline for maintenance from March 24 at 9:24 am to March 31 at 3:44 pm.

March 31: Branch 1 sample analyzed past hold time. Operations sampled at 3:55 pm: 1.38 mg/L free chlorine; analyzer reading 1.17 mg/L.

Report Date: April 7, 2025



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: **March 2025**

Report Created: **Tuesday, April 01, 2025**

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	
01/03/2025	96.26	96.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	90.75	90.75	187.01	187.01	100.00
02/03/2025	96.33	96.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	90.96	90.96	187.29	187.29	100.00
03/03/2025	98.62	98.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	93.01	93.01	191.64	191.64	100.00
04/03/2025	74.17	74.17	0.00	0.00	27.68	27.68	0.68	0.68	0.00	0.00	90.47	90.47	193.00	193.00	100.00
05/03/2025	0.41	0.41	0.00	0.00	65.64	65.64	0.00	0.00	0.00	0.00	71.49	71.54	137.53	137.58	99.97
06/03/2025	0.80	0.80	0.47	1.36	84.18	84.18	0.00	0.00	9.19	9.19	94.47	94.47	189.12	190.01	99.53
07/03/2025	2.41	2.41	49.45	50.42	12.82	12.82	0.00	0.00	25.09	25.09	99.27	99.27	189.04	190.01	99.49
08/03/2025	0.00	0.00	98.36	98.36	0.00	0.00	0.00	0.00	0.00	0.00	87.88	87.88	186.24	186.24	100.00
09/03/2025	0.00	0.00	97.69	97.69	0.00	0.00	0.00	0.00	0.00	0.00	88.08	88.08	185.77	185.77	100.00
10/03/2025	0.00	0.00	100.59	100.59	0.00	0.00	11.16	11.16	37.21	37.21	42.40	42.40	191.36	191.36	100.00
11/03/2025	0.00	0.00	101.56	101.56	0.00	0.00	0.00	0.00	91.41	91.41	0.00	0.00	192.97	192.97	100.00
12/03/2025	0.00	0.00	106.74	106.74	0.00	0.00	0.00	0.00	94.92	94.92	0.00	0.00	201.65	201.65	100.00
13/03/2025	0.00	0.00	108.59	108.59	0.00	0.00	0.00	0.00	97.42	97.42	0.00	0.00	206.01	206.01	100.00
14/03/2025	0.00	0.00	108.41	108.41	0.00	0.00	0.00	0.00	97.57	97.57	0.00	0.00	205.98	205.98	100.00
15/03/2025	0.00	0.00	110.13	110.13	0.00	0.00	0.00	0.00	98.22	98.22	0.00	0.00	208.35	208.35	100.00
16/03/2025	0.00	0.00	111.26	111.26	0.00	0.00	0.00	0.00	99.17	99.17	0.00	0.00	210.43	210.43	100.00
17/03/2025	0.00	0.00	108.32	108.32	0.00	0.00	0.00	0.00	96.68	96.68	0.00	0.00	204.99	204.99	100.00
18/03/2025	0.00	0.00	109.22	109.22	0.00	0.00	0.00	0.00	96.99	96.99	0.00	0.00	206.21	206.21	100.00
19/03/2025	0.00	0.00	59.30	59.30	0.00	0.00	0.00	0.00	50.67	50.67	0.00	0.00	109.97	109.97	100.00
20/03/2025	0.00	0.00	102.69	102.69	0.00	0.00	0.00	0.00	2.17	2.17	89.63	89.70	194.49	194.55	99.97
21/03/2025	0.00	0.00	100.70	100.70	0.00	0.00	0.00	0.00	0.00	0.00	90.96	90.96	191.66	191.66	100.00
22/03/2025	0.00	0.00	105.54	105.54	0.00	0.00	0.00	0.00	0.00	0.00	92.47	92.47	198.01	198.01	100.00
23/03/2025	0.00	0.00	105.55	105.55	0.00	0.00	0.00	0.00	0.00	0.00	92.46	92.46	198.01	198.01	100.00
24/03/2025	0.00	0.00	57.83	57.83	0.00	0.00	22.05	22.05	0.00	0.00	66.86	66.86	146.74	146.74	100.00
25/03/2025	0.00	0.00	0.00	0.00	0.00	0.00	99.30	99.30	0.00	0.00	94.17	94.17	193.47	193.47	100.00
26/03/2025	0.00	0.00	0.00	0.00	0.00	0.00	100.58	100.58	62.43	62.43	36.09	36.09	199.11	199.11	100.00
27/03/2025	0.00	0.00	0.00	0.00	0.00	0.00	98.43	98.43	96.40	96.40	0.00	0.00	194.83	194.83	100.00
28/03/2025	0.00	0.00	0.00	0.00	0.00	0.00	94.28	94.28	92.58	92.58	0.00	0.00	186.85	186.85	100.00
29/03/2025	0.00	0.00	0.00	0.00	0.00	0.00	91.32	91.32	89.81	89.81	0.00	0.00	181.12	181.12	100.00
30/03/2025	0.00	0.00	0.00	0.00	0.00	0.00	92.79	92.79	91.20	91.20	0.00	0.00	183.98	183.98	100.00
31/03/2025	0.00	0.00	0.00	0.00	0.00	0.00	93.60	93.60	90.43	90.43	0.00	0.00	184.03	184.03	100.00
Total [ML]:	369.00	369.00	1742.39	1744.25	190.32	190.32	704.19	704.19	1419.54	1419.54	1411.43	1411.54	5836.86	5838.83	

Water Volume [%]:

To Dose per reactor 100.00 % 99.89 % 100.00 % 100.00 % 100.00 % 99.99 %

To Dose Total 99.97 %

Notes: 1. Target Log value: 2.00

Submitted By (Print): _H. Buhler_

Signature: _original signed by H. Buhler_

WATER TREATMENT PLANT UV REPORT

Report Period: **March 2025**

Report Created: **Tuesday, April 01, 2025**

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.
01/03/2025	92.2	91.7	90.2	88.0	2.5	2.2	OL	OL	OL	OL	OL	OL	OL	OL	2.5	2.3
02/03/2025	91.4	90.3	91.2	86.5	2.5	2.2	OL	OL	OL	OL	OL	OL	OL	OL	2.5	2.2
03/03/2025	91.5	89.5	93.4	93.1	2.5	2.3	OL	OL	OL	OL	OL	OL	OL	OL	2.5	2.2
04/03/2025	93.0	92.3	93.4	92.9	2.5	2.3	OL	OL	3.1	0.0	2.0	0.0	OL	OL	2.5	0.0
05/03/2025	88.4	0.0	93.0	89.7	2.4	0.0	OL	OL	2.8	0.0	OL	OL	OL	OL	2.5	0.0
06/03/2025	92.0	90.4	93.3	91.2	23.6	0.0	1.1	0.0	2.5	0.0	OL	OL	3.7	0.0	2.5	1.8
07/03/2025	92.6	92.2	93.4	93.0	25.7	0.0	3.9	0.0	3.5	0.0	OL	OL	4.0	0.0	2.6	0.0
08/03/2025	92.6	92.1	93.3	93.0	OL	OL	2.9	2.3	OL	OL	OL	OL	OL	OL	2.5	2.3
09/03/2025	92.6	92.4	93.4	93.2	OL	OL	2.5	2.3	OL	OL	OL	OL	OL	OL	2.5	2.2
10/03/2025	92.6	92.3	93.4	93.1	OL	OL	2.5	2.2	0.0	0.0	3.7	0.0	3.0	0.0	2.5	0.0
11/03/2025	92.0	91.6	92.6	92.1	OL	OL	2.5	2.3	OL	OL	0.0	0.0	2.5	2.2	OL	OL
12/03/2025	92.4	91.9	92.9	92.5	OL	OL	2.5	2.3	OL	OL	OL	OL	2.5	2.3	OL	OL
13/03/2025	92.4	92.1	93.0	92.7	OL	OL	2.5	2.3	OL	OL	OL	OL	2.5	2.3	OL	OL
14/03/2025	92.4	92.1	93.0	92.7	OL	OL	2.5	2.3	OL	OL	OL	OL	2.5	2.3	OL	OL
15/03/2025	92.5	92.2	93.1	92.8	OL	OL	2.5	2.2	OL	OL	OL	OL	2.5	2.3	OL	OL
16/03/2025	92.6	92.3	93.2	93.0	OL	OL	2.5	2.2	OL	OL	OL	OL	2.5	2.3	OL	OL
17/03/2025	92.7	92.3	93.3	92.9	OL	OL	2.5	2.2	OL	OL	OL	OL	2.5	2.3	OL	OL
18/03/2025	93.1	92.4	93.8	93.1	OL	OL	2.5	2.2	OL	OL	OL	OL	2.5	2.3	OL	OL
19/03/2025	92.9	0.6	93.6	0.6	OL	OL	2.7	0.0	OL	OL	OL	OL	3.0	0.0	OL	OL
20/03/2025	92.6	92.3	93.3	93.3	OL	OL	2.5	2.3	OL	OL	OL	OL	3.2	0.0	2.6	0.0
21/03/2025	92.1	92.3	92.8	93.1	OL	OL	2.5	2.2	OL	OL	OL	OL	OL	OL	2.5	2.3
22/03/2025	92.9	92.3	93.6	93.1	OL	OL	2.5	2.3	OL	OL	OL	OL	OL	OL	2.5	2.3
23/03/2025	92.9	92.4	93.6	93.3	OL	OL	2.5	2.3	OL	OL	OL	OL	OL	OL	2.5	2.3
24/03/2025	89.1	73.4	91.5	93.1	OL	OL	2.5	2.0	OL	OL	3.7	0.0	OL	OL	2.7	0.0
25/03/2025	OL	OL	93.7	93.3	OL	OL	OL	OL	OL	OL	2.6	2.3	OL	OL	2.5	2.2
26/03/2025	OL	OL	93.7	93.1	OL	OL	OL	OL	OL	OL	2.5	2.3	2.7	0.0	2.5	0.0
27/03/2025	OL	OL	93.7	93.4	OL	OL	OL	OL	OL	OL	2.5	2.3	2.5	2.2	OL	OL
28/03/2025	OL	OL	93.4	93.0	OL	OL	OL	OL	OL	OL	2.5	2.3	2.5	2.5	OL	OL
29/03/2025	OL	OL	93.1	92.6	OL	OL	OL	OL	OL	OL	2.5	2.3	2.5	2.5	OL	OL
30/03/2025	OL	OL	91.8	90.3	OL	OL	OL	OL	OL	OL	2.5	2.3	2.5	2.5	OL	OL
31/03/2025	93.0	92.7	89.4	86.4	OL	OL	OL	OL	OL	OL	2.5	2.3	2.5	2.5	OL	OL

Notes:

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

Submitted By (Print): H. Buhler

Signature: original signed by H. Buhler