



Water and Waste Department • Service des eaux et des déchets

March 7, 2016

Melanie Betsill
Office of Drinking Water
Manitoba Conservation and Water Stewardship
1007 Century Street
Winnipeg, Manitoba R3H 0W4

Our File: 040-18-18-55-00

Dear Ms. Betsill:

**RE: FEBRUARY 2016 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 February 2016. There are no corrective action reports to be submitted for February 2016.

The February on-line and grab sampling turbidity reports include results obtained for the Water Treatment Plant raw water and the eight filters. The turbidity results for the effluent from the filters met the licence requirements.

The February 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 February UV summary report includes 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 may be reached by telephone at 204-986-8359 or by e-mail at rgrosselle@winnipeg.ca.

Yours sincerely,

Original signed by:

R. Grosselle
Manager of Environmental Standards
Attachments

c:(e-mail)

Dr. L. Richards, Winnipeg Regional Health Authority
Dr. H. Chang, Winnipeg Regional Health Authority
Dr. S. Roberecki, Manitoba Health, Healthy Living and Seniors
M. L. Geer, CPA, CA
G. Patton, P.Eng.
T. Shanks, P.Eng.
M. Szmon, P.Eng.
C. Diduck

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CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT
WATER SERVICES

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

WATER TREATMENT PLANT TURBIDITY ON-LINE MONITORING REPORT

February 2016 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
1/02/2016	0.49	0.02	0.07		0.03	0.07	0.01	0.03	0.02	0.04	0.02	0.04	0.01	0.05	OL	OL	0.01	0.01
2/02/2016	0.50	0.03	0.05		0.03	0.08	0.03	0.11	0.03	0.09	0.02	0.03	0.01	0.06	OL	OL	0.01	0.02
3/02/2016	0.49	0.03	0.09		0.04	0.06	0.02	0.15	0.03	0.08	0.02	0.05	0.02	0.03	OL	OL	0.01	0.01
4/02/2016	0.48	0.01	0.03		0.02	0.07	0.00	0.02	0.02	0.04	0.02	0.04	0.01	0.04	OL	OL	0.01	0.01
5/02/2016	0.47	0.01	0.02		0.02	0.05	0.01	0.06	0.02	0.06	0.01	0.03	0.01	0.06	0.02	0.06	0.00	0.02
6/02/2016	0.47	0.01	0.04		0.02	0.03	0.01	0.06	0.01	0.06	0.02	0.05	0.02	0.03	0.01	0.05	0.00	0.01
7/02/2016	0.48	0.01	0.04		0.02	0.05	0.00	0.01	0.02	0.05	0.01	0.05	0.01	0.06	0.02	0.04	0.01	0.02
8/02/2016	0.46	0.01	0.03		0.01	0.05	0.01	0.06	0.02	0.06	0.02	0.04	0.01	0.03	0.01	0.05	0.00	0.03
9/02/2016	0.47	0.01	0.04		0.03	0.04	0.00	0.05	0.01	0.07	0.02	0.05	0.02	0.06	0.01	0.03	0.01	0.01
10/02/2016	0.47	0.01	0.03		0.02	0.06	0.00	0.03	0.02	0.05	0.01	0.05	0.01	0.04	0.02	0.05	0.01	0.21
11/02/2016	0.45	0.03	0.07		0.04	0.05	0.02	0.10	0.03	0.11	0.04	0.09	0.05	0.11	0.03	0.09	0.01	0.02
12/02/2016	0.47	0.02	0.08		0.03	0.10	0.02	0.04	0.04	0.06	0.03	0.09	0.04	0.11	0.04	0.06	0.02	0.07
13/02/2016	0.48	0.03	0.05		0.03	0.11	0.04	0.10	0.04	0.11	0.03	0.06	0.03	0.11	0.03	0.11	0.01	0.07
14/02/2016	0.46	0.04	0.09		0.05	0.08	0.04	0.14	0.04	0.13	0.04	0.09	0.03	0.05	0.03	0.10	0.00	0.01
15/02/2016	0.47	0.03	0.10		0.04	0.11	0.05	0.15	0.04	0.06	0.04	0.18	0.04	0.11	0.04	0.06	0.01	0.06
16/02/2016	0.46	0.04	0.12		0.04	0.12	0.05	0.16	0.04	0.16	0.04	0.12	0.02	0.04	0.03	0.16	0.01	0.06
17/02/2016	0.44	0.03	0.10		0.05	0.12	0.04	0.14	0.04	0.06	0.03	0.10	0.04	0.10	0.04	0.05	0.01	0.03
18/02/2016	0.44	0.04	0.07		0.03	0.07	0.05	0.13	0.04	0.13	0.03	0.05	0.02	0.10	0.02	0.10	0.01	0.06
19/02/2016	0.45	0.02	0.05		0.03	0.10	0.02	0.08	0.01	0.07	0.02	0.05	0.01	0.03	0.01	0.02	0.01	0.01
20/02/2016	0.46	0.01	0.04		0.02	0.06	0.01	0.03	0.02	0.04	0.01	0.05	0.01	0.06	0.01	0.05	0.01	0.01
21/02/2016	0.46	0.03	0.06		0.03	0.04	0.02	0.09	0.02	0.09	0.02	0.04	0.00	0.01	0.01	0.04	0.00	0.02
22/02/2016	0.46	0.02	0.06		0.03	0.07	0.01	0.09	0.02	0.03	0.01	0.05	0.01	0.04	0.01	0.04	0.01	0.01
23/02/2016	0.46	0.02	0.03		0.02	0.06	0.02	0.03	0.02	0.08	0.01	0.04	0.01	0.05	0.01	0.02	0.00	0.01
24/02/2016	0.46	0.02	0.06		0.03	0.04	0.01	0.09	0.01	0.06	0.02	0.05	0.01	0.01	0.01	0.04	0.00	0.01
25/02/2016	0.46	0.01	0.04		0.02	0.06	0.00	0.06	0.02	0.03	0.01	0.04	0.01	0.04	0.01	0.01	0.01	0.01
26/02/2016	0.46	0.01	0.03		0.01	0.05	0.01	0.05	0.01	0.06	0.01	0.02	0.01	0.04	0.01	0.03	0.00	0.01
27/02/2016	0.46	0.02	0.05		0.03	0.05	0.01	0.07	0.01	0.07	0.02	0.04	0.01	0.02	0.01	0.03	0.00	0.01
28/02/2016	0.46	0.01	0.05		0.02	0.06	0.01	0.02	0.03	0.04	0.01	0.04	0.01	0.04	0.01	0.02	0.01	0.01
29/02/2016	0.46	0.03	0.05		0.02	0.06	0.03	0.08	0.03	0.08	0.02	0.04	0.01	0.07	0.02	0.04	0.01	0.04

Total Number of Measurements Taken, A: 13208
Turbidity Standard for Monitoring Location (NTU): 0.30
Number of Measurements Meeting Standard, B: 13208
Compliance with Turbidity Standard, C = B/A X 100%: 100.00%

9847 13286 11245 13954 13570 10489 13437
0.30 0.30 0.30 0.30 0.30 0.30 0.30
9847 13286 11245 13954 13570 10489 13437
100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00%

OL: Offline

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Submitted By (Print): M.Szmon

Signature: Original signed by M.Szmon



CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT
ENVIRONMENTAL STANDARDS DIVISION

WATER TREATMENT PLANT TURBIDITY GRAB MONITORING REPORT

Water System Code: 252.00		Turbidity (NTU)																			
Licence No. PWS-09-412 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		
		0.50	0.51	0.11	<0.02	0.10	0.04	0.11	0.02	0.10	<0.02	0.08	<0.02	0.10	<0.02	OL	OL	0.08	<0.02		
	01-Feb-2016	0.53	0.48	0.11	0.02	0.09	0.04	0.13	0.03	0.12	0.02	0.07	<0.02	0.08	<0.02	OL	OL	0.15	<0.02		
	02-Feb-2016	0.47	0.46	0.17	0.06	0.14	0.06	0.18	0.05	0.14	0.03	0.12	0.03	0.11	0.02	OL	OL	0.10	<0.02		
	03-Feb-2016	0.53	0.47	0.08	<0.02	0.09	0.04	0.10	<0.02	0.08	<0.02	0.11	0.03	0.09	<0.02	OL	OL	0.07	<0.02		
	04-Feb-2016	0.54	0.47	0.07	<0.02	0.08	0.02	0.11	<0.02	0.11	<0.02	0.08	<0.02	0.09	<0.02	0.14	0.04	0.10	<0.02		
	05-Feb-2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.12	0.09	NS	NS		
	06-Feb-2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		
	07-Feb-2016	0.45	0.43	0.09	<0.02	0.09	0.02	0.12	<0.02	0.13	0.02	0.11	0.02	0.12	0.04	0.10	0.02	0.08	0.09		
	08-Feb-2016	0.52	0.44	0.12	0.02	0.08	0.03	0.09	<0.02	0.09	<0.02	0.12	0.04	0.10	0.02	0.08	<0.02	0.08	<0.02		
	09-Feb-2016	0.50	0.44	0.09	<0.02	OL	OL	0.12	<0.02	0.12	<0.02	0.11	0.02	0.12	<0.02	0.13	0.03	0.18	0.09		
	10-Feb-2016	0.50	0.45	0.16	0.05	0.12	0.04	0.20	0.05	OL	OL	0.15	0.04	0.18	0.06	0.14	0.03	0.13	0.02		
	11-Feb-2016	0.53	0.46	0.11	0.02	0.13	0.05	0.13	0.02	0.13	0.02	0.17	0.07	0.17	0.05	0.13	0.04	0.13	0.03		
	12-Feb-2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		
	13-Feb-2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		
	14-Feb-2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		
	15-Feb-2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		
	16-Feb-2016	0.50	0.45	0.15	0.04	0.15	0.05	0.22	0.06	0.21	0.07	0.16	0.04	0.14	0.02	OL	OL	OL	OL		
	17-Feb-2016	0.50	0.43	0.16	0.08	0.16	0.07	0.23	0.09	0.14	0.03	0.18	0.07	0.15	0.03	0.14	0.03	0.13	0.02		
	18-Feb-2016	0.48	0.42	0.13	0.04	0.12	0.05	0.20	0.06	0.17	0.05	0.13	0.04	0.13	0.02	0.14	0.03	0.19	0.05		
	19-Feb-2016	0.50	0.43	0.11	<0.02	0.10	0.03	0.16	0.04	0.11	<0.02	0.11	0.02	0.09	<0.02	0.09	<0.02	0.08	<0.02		
	20-Feb-2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		
	21-Feb-2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		
	22-Feb-2016	0.48	0.44	0.14	0.04	0.11	0.04	0.11	<0.02	0.09	<0.02	0.09	0.02	0.07	<0.02	0.08	<0.02	0.07	<0.02		
	23-Feb-2016	0.54	0.44	0.08	<0.02	OL	OL	0.11	0.02	0.16	<0.02	0.12	<0.02	0.11	<0.02	0.07	<0.02	0.09	<0.02		
	24-Feb-2016	0.49	0.46	0.09	<0.02	0.09	0.03	0.17	0.05	OL	OL	0.08	<0.02	0.07	<0.02	0.10	<0.02	0.06	<0.02		
	25-Feb-2016	0.49	0.45	0.08	<0.02	0.10	0.03	0.11	<0.02	0.12	<0.02	0.09	0.02	0.10	<0.02	0.09	<0.02	0.09	<0.02		
	26-Feb-2016	0.50	0.46	0.08	<0.02	0.07	0.02	0.11	<0.02	0.11	0.02	0.07	<0.02	0.09	<0.02	0.10	<0.02	0.08	<0.02		
	27-Feb-2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		
	28-Feb-2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		
	29-Feb-2016	0.54	0.45	0.09	<0.02	0.08	0.03	0.13	0.02	0.14	0.02	0.08	<0.02	0.08	<0.02	0.11	0.02	0.07	<0.02		
Total number of measurements taken, A:						20		18		20		18		20		20		16			
Turbidity Standard for Monitoring Location (NTU):						0.30		0.30		0.30		0.30		0.30		0.30		18			
Number of measurements meeting standard, B:						20		18		20		18		20		20		16			
Compliance with Turbidity Standard, C= B/A X 100%:						100%		100%		100%		100%		100%		100%		100%			

NS: No Sample NA: Not Analyzed OL: Off-Line

Comments:

Report Compiled By: H.Demchenko

Approved in LIMS By: C.Diduck



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 AA

Report Created: 01 March 2016

Report Period: February 2016

Date	BRANCH 1 [mg/L]		BRANCH 2 [mg/L]	
	Average	Minimum	Average	Minimum
01/02/2016	1.00	0.87	1.06	0.98
02/02/2016	1.04	0.97	1.11	0.99
03/02/2016	1.05	0.94	1.08	0.99
04/02/2016	0.98	0.85	0.97	0.86
05/02/2016	1.15	1.06	1.10	1.00
06/02/2016	1.15	1.08	1.17	1.11
07/02/2016	1.14	1.07	1.15	1.08
08/02/2016	1.14	1.09	1.15	1.10
09/02/2016	1.13	1.07	1.14	1.07
10/02/2016	1.10	0.88	1.07	0.88
11/02/2016	1.20	1.08	1.22	1.09
12/02/2016	1.16	1.11	1.15	1.11
13/02/2016	1.19	1.13	1.20	1.15
14/02/2016	1.17	1.12	1.12	1.05
15/02/2016	1.13	1.06	1.06	1.02
16/02/2016	1.08	0.93	1.00	0.83
17/02/2016	1.20	1.14	1.16	1.07
18/02/2016	1.21	1.14	1.12	1.10
19/02/2016	1.20	1.07	1.12	1.02
20/02/2016	1.15	1.11	1.07	1.02
21/02/2016	1.17	1.13	1.10	1.05
22/02/2016	1.17	1.12	1.11	1.08
23/02/2016	1.14	1.07	1.10	1.06
24/02/2016	1.11	1.07	1.09	1.04
25/02/2016	1.19	1.09	1.08	1.04
26/02/2016	1.17	1.06	1.10	1.07
27/02/2016	1.08	1.03	1.09	1.05
28/02/2016	1.08	1.04	1.07	1.05
29/02/2016	1.09	1.02	1.08	1.02

Total Number of Measurements, A: 20161 20161

Minimum Free Chlorine Standard: 0.50 0.50

Number of Measurements Meeting Standard, B: 20161 20161

COMPLIANCE, C = B/A X 100%: 100 100

File Path: N:\Water Treatment Branch\Administration\Reports\Regulatory Submissions\Chlorine\2016\02-February

Submitted By (Print): M.Szmon

Signature: Original signed by M.Szmon



CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT
ENVIRONMENTAL STANDARDS DIVISION

WATER TREATMENT PLANT CHLORINE GRAB MONITORING REPORT

Water System Code: 252.00	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-Feb-2016	1.06	0.99	1.23	1.02	0.94	1.22
02-Feb-2016	1.00	1.03	1.22	1.05	1.05	1.24
03-Feb-2016	1.07	1.15	1.36	1.09	1.14	1.35
04-Feb-2016	0.96	1.02	1.18	0.98	1.14	1.28
05-Feb-2016	1.10	1.15	1.29	1.01	1.10	1.28
06-Feb-2016	NS	NS	NS	NS	NS	NS
07-Feb-2016	NS	NS	NS	NS	NS	NS
08-Feb-2016	1.15	1.21	1.39	1.14	1.20	1.30
09-Feb-2016	1.13	1.16	1.32	1.17	1.20	1.37
10-Feb-2016	1.10	1.14	1.28	1.12	1.11	1.22
11-Feb-2016	1.15	1.13	1.33	1.13	1.10	1.31
12-Feb-2016	1.17	1.25	1.37	1.15	1.19	1.34
13-Feb-2016	NS	NS	NS	NS	NS	NS
14-Feb-2016	NS	NS	NS	NS	NS	NS
15-Feb-2016	NS	NS	NS	NS	NS	NS
16-Feb-2016	1.09	1.16	1.36	1.03	1.14	1.33
17-Feb-2016	1.19	1.16	1.33	1.20	1.18	1.35
18-Feb-2016	1.22	1.22	1.39	1.12	1.20	1.40
19-Feb-2016	1.29	1.30	1.46	1.20	1.29	1.45
20-Feb-2016	NS	NS	NS	NS	NS	NS
21-Feb-2016	NS	NS	NS	NS	NS	NS
22-Feb-2016	1.19	1.24	1.40	1.12	1.19	1.35
23-Feb-2016	1.18	1.18	1.37	1.17	1.17	1.35
24-Feb-2016	1.09	1.17	1.31	1.08	1.14	1.30
25-Feb-2016	1.14	1.14	1.30	1.11	1.12	1.29
26-Feb-2016	1.27	1.24	1.36	1.12	1.16	1.29
27-Feb-2016	NS	NS	NS	NS	NS	NS
28-Feb-2016	NS	NS	NS	NS	NS	NS
29-Feb-2016	1.10	1.15	1.27	1.09	1.15	1.29
Total number of measurements taken, A:		20			20	
Chlorine Standard for Monitoring Location (mg/L):		0.50			0.50	
Number of measurements meeting standard, B:		20			20	
Compliance with Chlorine Standard, C = B/A X 100%:		100%			100%	

NS: No Sample NA: Not Analyzed OL: Off-Line

Comments:

Report Compiled By: _____ H.Demchenko

Approved in LIMS By: _____ C.Diduck



Winnipeg

CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT
WATER SERVICES

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

WATER TREATMENT PLANT UV REPORT

Report Period: February 2016

Report Created: Tuesday, March 01, 2016

Date	Transmittance %	UVR-D100A				UVR-D200A				UVR-D300A				UVR-D400A				UVR-D500A				UVR-D600A				Total				% Volume Treated To Dose	
		Water Volume [ML]				Water Volume [ML]				Water Volume [ML]				Water Volume [ML]				Water Volume [ML]				Water Volume [ML]				Water Volume [ML]					
		Untreated	Below	To	Total	Untreated	Below	To	Total	Untreated	Below	To	Total	Untreated	Below	To	Total	Untreated	Below	To	Total	Untreated	Below	To	Total	Untreated	Below	To	Total		
01/02/2016	95.10	0.00	0.00	37.69	37.69	0.00	0.00	39.16	39.16	0.00	0.00	14.71	14.71	0.00	0.00	49.39	49.39	0.00	0.00	37.78	37.78	0.00	0.04	0.66	0.70	0.00	0.04	179.39	179.44	99.98	
02/02/2016	94.89	0.00	0.00	44.58	44.58	0.00	0.04	56.76	56.80	0.00	0.00	0.00	0.00	0.00	0.00	78.52	78.52	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.09	0.09	0.00	0.13	179.86	179.99	99.93
03/02/2016	94.72	0.00	0.00	44.79	44.79	0.00	0.04	56.93	56.96	0.00	0.00	0.00	0.00	0.00	0.00	78.21	78.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	179.93	179.96	99.98	
04/02/2016	95.37	0.00	0.00	25.21	25.21	0.00	0.00	59.49	59.49	0.00	0.00	0.00	0.00	0.00	0.00	68.24	68.24	0.00	0.00	0.00	0.00	0.00	0.04	27.01	27.06	0.00	0.04	179.95	179.99	99.98	
05/02/2016	95.37	0.00	0.00	0.00	0.00	0.00	0.00	63.95	63.95	0.00	0.00	24.77	24.77	0.00	0.00	30.63	30.63	0.00	0.00	38.62	38.62	0.00	0.09	25.68	25.77	0.00	0.09	183.65	183.74	99.95	
06/02/2016	95.32	0.00	0.00	0.00	0.00	0.00	0.00	64.71	64.71	0.00	0.00	57.49	57.49	0.00	0.00	0.00	0.00	0.00	0.00	67.18	67.18	0.00	0.00	0.00	0.00	0.00	0.00	189.38	189.38	100.00	
07/02/2016	95.25	0.00	0.00	0.00	0.00	0.00	0.00	63.72	63.72	0.00	0.00	56.99	56.99	0.00	0.00	0.00	0.00	0.00	0.00	66.27	66.27	0.00	0.00	0.00	0.00	0.00	0.00	186.98	186.98	100.00	
08/02/2016	95.25	0.00	0.00	0.00	0.00	0.00	0.00	62.85	62.85	0.00	0.00	56.20	56.20	0.00	0.00	0.00	0.00	0.00	0.00	65.32	65.32	0.00	0.00	0.00	0.00	0.00	0.00	184.37	184.37	100.00	
09/02/2016	95.27	0.00	0.00	0.00	0.00	0.00	0.00	61.23	61.23	0.00	0.00	55.83	55.83	0.00	0.00	0.00	0.00	0.00	0.00	63.88	63.88	0.00	0.00	0.00	0.00	0.00	0.00	180.94	180.94	100.00	
10/02/2016	95.10	0.00	0.00	0.00	0.00	0.00	0.00	50.97	50.97	0.12	0.12	48.77	49.00	0.00	0.00	0.00	0.00	0.00	0.00	51.85	51.85	0.00	0.00	0.00	0.00	0.12	0.12	151.59	151.83	99.85	
11/02/2016	94.12	0.00	0.00	0.00	0.00	0.00	0.00	60.33	60.33	0.00	0.00	64.96	64.96	0.00	0.00	0.00	0.00	0.00	0.00	63.71	63.71	0.00	0.00	0.00	0.00	0.00	0.00	189.00	189.00	100.00	
12/02/2016	94.09	0.00	0.00	0.00	0.00	0.00	0.00	59.83	59.83	0.00	0.00	64.26	64.26	0.00	0.00	0.00	0.00	0.00	0.00	64.86	64.86	0.00	0.00	0.00	0.00	0.00	0.00	188.96	188.96	100.00	
13/02/2016	94.05	0.00	0.00	3.65	3.65	0.00	0.00	60.95	60.95	0.19	0.19	60.61	61.00	0.00	0.00	0.00	0.00	0.00	0.00	63.53	63.53	0.00	0.00	0.00	0.00	0.19	0.19	188.74	189.13	99.80	
14/02/2016	93.85	0.00	0.00	57.49	57.49	0.00	0.00	71.50	71.50	0.00	0.00	0.00	0.00	0.00	0.00	59.97	59.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	188.96	188.96	100.00			
15/02/2016	93.65	0.00	0.00	55.14	55.14	0.00	0.00	68.75	68.75	0.00	0.00	0.00	0.00	0.00	0.00	60.02	60.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	183.91	183.91	100.00			
16/02/2016	93.64	0.00	0.00	44.97	44.97	0.00	0.00	57.70	57.70	0.00	0.00	0.00	0.00	0.00	0.00	48.09	48.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	150.77	150.77	100.00			
17/02/2016	93.70	0.00	0.00	53.92	53.92	0.00	0.00	67.27	67.27	0.00	0.00	0.00	0.00	0.00	0.00	59.77	59.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	180.96	180.96	100.00			
18/02/2016	93.89	0.00	0.00	53.40	53.40	0.00	0.00	66.66	66.66	0.00	0.00	0.00	0.00	0.35	0.41	4.14	4.90	0.27	0.27	55.97	56.52	0.00	0.00	0.00	0.00	0.63	0.68	180.18	181.49	99.28	
19/02/2016	95.22	0.00	0.00	52.24	52.24	0.00	0.00	65.21	65.21	0.00	0.00	0.00	0.00	0.00	0.00	63.55	63.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	180.99	180.99	100.00			
20/02/2016	95.15	0.00	0.00	53.89	53.89	0.00	0.00	67.11	67.11	0.00	0.00	0.00	0.00	0.00	0.00	59.98	59.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	180.99	180.99	100.00			
21/02/2016	95.18	0.00	0.00	53.88	53.88	0.00	0.00	67.11	67.11	0.00	0.00	0.00	0.00	0.00	0.00	60.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	180.99	180.99	100.00			
22/02/2016	95.25	0.00	0.00	54.77	54.77	0.00	0.00	68.28	68.28	0.00	0.00	0.00	0.00	0.00	0.00	60.01	60.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	183.06	183.06	100.00			
23/02/2016	95.20	0.00	0.00	55.14	55.14	0.00	0.00	68.84	68.84	0.00	0.00	0.00	0.00	0.00	0.00	60.02	60.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	184.00	184.00	100.00			
24/02/2016	95.34	0.00	0.00	55.17	55.17	0.00	0.00	68.85	68.85	0.00	0.00	0.00	0.00	0.00	0.00	59.99	59.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	184.01	184.01	100.00			
25/02/2016	95.47	0.00	0.00	55.19	55.19	0.00	0.00	68.81	68.81	0.00	0.00	0.00	0.00	0.00	0.00	59.99	59.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	184.00	184.00	100.00			
26/02/2016	95.47	0.00	0.00	55.22	55.22	0.00	0.00	68.80	68.80	0.00	0.00	0.00	0.00	0.00	0.00	59.99	59.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	184.00	184.00	100.00			
27/02/2016	95.36	0.00	0.00	53.99	53.99	0.00	0.00	67.29	67.29	0.00	0.00	0.00	0.00	0.00	0.00	60.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	181.28	181.28	100.00			
28/02/2016	95.08	0.00	0.00	53.43	53.43	0.00	0.00	66.56	66.56	0.00	0.00	0.00	0.00	0.00	0.00	59.99	59.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	179.98	179.98	100.00			
29/02/2016	95.13	0.00	0.00	53.49	53.49	0.00	0.00	66.60	66.60	0.00	0.00	0.00	0.00	0.00	0.00	59.95	59.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	180.04	180.04	100.00			
		0.00	0.00	1017.27	1017.27	0.00	0.08	1836.21	1836.29	0.31	0.31	504.60	505.21	0.35	0.41	309.14	309.90	0.27	0.27	1530.30	1530.85	0.00	0.26	53.36	53.62	0.94	1.33	5250.88	5253.14		

Water Volume [%]:

Untreated: 0.02 %

Below Dose: 0.03 %

To Dose: 99.96 %

Submitted By (Print): M.Szmon

Signature: Original signed by M.Szmon