



Water and Waste Department • Service des eaux et des déchets

Environmental Standards Division • Division des Normes Environnementales

September 7, 2017

Derek Clarke
Office of Drinking Water
Manitoba Sustainable Development
Box 6000
Gimli, Manitoba R0C 1B0

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

Dear Mr. Clarke:

**RE: AUGUST 2017 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 2017. There are no corrective action reports to be submitted for August 2017.

The August 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 August 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 August 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

Enclosures

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



CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT
WATER SERVICES

Water System Code: 252.00
Licence Number: PWS-09-412-01

WATER TREATMENT PLANT TURBIDITY ON-LINE MONITORING REPORT

August 2017 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
1/08/2017	2.80	0.06	0.15	0.13	0.19	0.08	0.19	0.13	0.26	0.12	0.22	0.09	0.27	0.05	0.11	0.01	0.08	
2/08/2017	2.69	0.06	0.15	0.13	0.20	0.08	0.19	0.09	0.16	0.06	0.12	0.09	0.21	0.08	0.27	0.01	0.10	
3/08/2017	2.19	0.06	0.09	0.12	0.20	0.07	0.19	0.08	0.16	0.05	0.11	0.10	0.11	0.05	0.13	0.01	0.03	
4/08/2017	2.92	0.06	0.15	0.10	0.18	0.07	0.10	0.08	0.15	0.06	0.11	0.08	0.16	0.05	0.15	0.01	0.06	
5/08/2017	2.38	0.05	0.13	0.13	0.20	0.07	0.19	0.08	0.14	0.06	0.11	0.08	0.15	0.04	0.06	0.01	0.01	
6/08/2017	3.50	0.07	0.18	0.10	0.22	0.09	0.22	0.12	0.14	0.06	0.12	0.07	0.09	0.04	0.10	0.01	0.01	
7/08/2017	4.02	0.07	0.10	0.08	0.18	0.06	0.20	0.10	0.19	0.07	0.09	0.07	0.13	0.03	0.10	0.01	0.02	
8/08/2017	2.88	0.07	0.16	0.09	0.12	0.09	0.13	0.10	0.22	0.07	0.12	0.07	0.10	0.03	0.10	0.01	0.01	
9/08/2017	3.61	0.06	0.16	0.08	0.18	0.08	0.19	0.10	0.15	0.09	0.14	0.06	0.13	0.03	0.04	0.01	0.03	
10/08/2017	2.88	0.05	0.08	0.07	0.14	0.06	0.15	0.12	0.21	0.09	0.15	0.07	0.10	0.03	0.10	0.01	0.01	
11/08/2017	3.03	0.07	0.13	0.07	0.15	0.07	0.09	0.12	0.21	0.13	0.16	0.08	0.13	0.04	0.13	0.01	0.03	
12/08/2017	2.75	0.07	0.18	0.10	0.16	0.08	0.18	0.12	0.24	0.13	0.20	0.08	0.18	0.04	0.06	0.01	0.01	
13/08/2017	4.51	0.10	0.22	0.12	0.20	0.11	0.25	0.11	0.16	0.06	0.14	0.10	0.12	0.07	0.12	0.01	0.06	
14/08/2017	3.31	0.10	0.15	0.11	0.21	0.09	0.24	0.09	0.20	0.05	0.08	0.09	0.17	0.05	0.17	0.01	0.07	
15/08/2017	2.85	0.09	0.21	0.14	0.18	0.13	0.21	0.09	0.21	0.06	0.12	0.08	0.19	0.05	0.16	0.01	0.01	
16/08/2017	2.71	0.09	0.22	0.14	0.24	0.11	0.26	0.11	0.14	0.06	0.15	0.07	0.16	0.05	0.09	0.01	0.05	
17/08/2017	4.07	0.10	0.13	0.12	0.23	0.10	0.26	0.11	0.21	0.05	0.09	0.09	0.11	0.05	0.19	0.01	0.09	
18/08/2017	3.35	0.10	0.23	0.14	0.19	0.13	0.18	0.11	0.22	0.06	0.16	0.07	0.18	0.04	0.14	0.01	0.07	
19/08/2017	2.96	0.12	0.26	0.18	0.28	0.15	0.27	0.11	0.26	0.08	0.15	0.07	0.18	0.05	0.08	0.01	0.03	
20/08/2017	2.73	0.12	0.15	0.15	0.27	0.13	0.26	0.15	0.22	0.05	0.15	0.08	0.10	0.04	0.18	0.01	0.09	
21/08/2017	2.29	0.15	0.26	0.13	0.19	0.15	0.19	0.12	0.26	0.06	0.15	0.07	0.15	0.04	0.17	0.01	0.08	
22/08/2017	3.22	0.11	0.22	0.13	0.28	0.09	0.29	0.08	0.16	0.04	0.15	0.05	0.12	0.02	0.05	0.01	0.01	
23/08/2017	3.86	0.10	0.25	0.07	0.19	0.06	0.23	0.08	0.26	0.03	0.07	0.05	0.06	0.02	0.09	0.01	0.04	
24/08/2017	3.42	0.08	0.18	0.08	0.12	0.06	0.09	0.05	0.13	0.04	0.08	0.05	0.09	0.02	0.10	0.01	0.01	
25/08/2017	3.75	0.07	0.15	0.07	0.17	0.05	0.15	0.05	0.07	0.03	0.10	0.05	0.07	0.03	0.05	0.01	0.02	
26/08/2017	3.05	0.08	0.11	0.07	0.15	0.04	0.06	0.05	0.12	0.04	0.06	0.06	0.12	0.03	0.10	0.01	0.04	
27/08/2017	2.56	0.07	0.15	0.08	0.11	0.05	0.15	0.04	0.12	0.04	0.07	0.05	0.13	0.03	0.04	0.01	0.01	
28/08/2017	3.54	0.07	0.09	0.07	0.14	0.04	0.14	0.06	0.08	0.03	0.08	0.07	0.13	0.04	0.12	0.01	0.04	
29/08/2017	2.85	0.06	0.14	0.07	0.08	0.04	0.05	0.04	0.11	0.04	0.07	0.05	0.12	0.03	0.08	0.01	0.03	
30/08/2017	3.55	0.07	0.15	0.07	0.13	0.04	0.13	0.04	0.07	0.04	0.07	0.05	0.12	0.04	0.05	0.01	0.01	
31/08/2017	3.24	0.07	0.10	0.07	0.15	0.04	0.14	0.06	0.12	0.04	0.09	0.06	0.08	0.03	0.11	0.01	0.05	

Total Number of Measurements Taken, A: 16475 14954 16593 15777 17073 16091 15841 16429
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: 16475 14954 16593 15777 17073 16091 15841 16429
Compliance with Turbidity Standard, C = B/A X 100%: 100.000% 100.000% 100.000% 100.000% 100.000% 100.000% 100.000% 100.000%

File Path: N:\Water Treatment Branch\Administration\Reports\Regulatory Submissions\Turbidity\2017\08-August

Submitted By (Print): D.Merredew

Signature: Original signed by D.Merredew



CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT
ENVIRONMENTAL STANDARDS DIVISION

WATER TREATMENT PLANT TURBIDITY GRAB MONITORING REPORT

Water System Code: 252.00	Turbidity (NTU)																	
	Raw Water		Filter 1		Filter 2		Filter 3		Filter 4		Filter 5		Filter 6		Filter 7		Filter 8	
Date	Grab	Analyser	Grab	Analyser	Grab	Analyser	Grab	Analyser	Grab	Analyser	Grab	Analyser	Grab	Analyser	Grab	Analyser	Grab	Analyser
01-Aug-2017	1.94	2.73	OL	OL	0.13	0.14	0.14	0.10	0.11	0.16	0.12	0.16	0.09	0.07	0.10	0.05	0.09	0.12
02-Aug-2017	1.97	2.66	0.10	0.04	0.14	0.15	OL	OL	0.11	0.08	0.07	0.04	0.08	0.10	0.08	0.04	0.09	0.12
03-Aug-2017	1.49	2.04	0.11	0.05	0.11	0.12	0.11	0.07	0.12	0.08	0.07	0.04	0.11	0.11	0.06	OL	OL	
04-Aug-2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
05-Aug-2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
06-Aug-2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
07-Aug-2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
08-Aug-2017	1.71	2.24	0.17	0.10	0.14	0.10	0.16	0.10	0.12	0.12	0.07	0.07	0.09	0.09	0.07	0.02	0.09	0.10
09-Aug-2017	1.79	2.43	0.10	0.04	0.13	0.10	0.16	0.11	0.13	0.12	OL	OL	0.09	0.08	0.07	0.03	0.07	0.10
10-Aug-2017	2.33	2.89	0.10	0.05	0.09	0.07	0.11	0.06	0.09	0.12	0.05	0.09	0.06	0.08	0.06	0.03	0.09	0.12
11-Aug-2017	2.34	2.45	0.11	0.06	0.10	0.08	0.11	0.07	0.16	0.19	0.08	0.15	0.10	0.10	0.08	0.04	0.08	0.10
12-Aug-2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
13-Aug-2017	1.53	NR	0.16	0.10	0.24	0.21	0.18	0.11	0.19	0.13	0.13	0.08	0.10	0.11	0.10	0.07	0.10	0.13
14-Aug-2017	1.93	2.58	0.16	0.08	0.14	0.10	0.15	0.10	0.17	0.11	0.08	0.03	0.11	0.10	OL	OL	0.09	0.11
15-Aug-2017	2.08	2.53	0.22	0.13	0.16	0.15	0.19	0.13	0.14	0.10	0.08	0.05	OL	OL	0.09	0.06	0.08	0.02
16-Aug-2017	1.97	2.54	0.16	0.07	0.19	0.16	0.25	0.18	0.15	0.10	OL	OL	0.10	0.08	0.11	0.04	0.11	0.02
17-Aug-2017	1.97	2.85	0.17	0.09	0.14	0.14	0.16	0.11	0.17	0.12	0.08	0.03	0.09	0.09	0.11	0.06	OL	OL
18-Aug-2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
19-Aug-2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
20-Aug-2017	1.75	2.83	0.20	0.12	OL	OL	0.20	0.14	0.24	0.17	0.12	0.07	0.10	0.09	0.11	0.05	0.12	0.05
21-Aug-2017	1.60	2.74	0.20	0.16	0.18	0.14	0.20	0.14	0.22	0.17	0.08	0.03	0.10	0.09	OL	OL	0.09	<0.02
22-Aug-2017	1.91	2.72	OL	OL	0.14	0.10	0.16	0.09	0.16	0.08	0.13	0.06	0.07	0.05	0.08	<0.02	0.09	<0.02
23-Aug-2017	1.69	2.42	0.11	0.11	OL	OL	0.12	0.09	0.16	0.09	0.07	0.02	0.06	0.05	0.06	<0.02	0.07	<0.02
24-Aug-2017	1.71	2.65	0.12	0.08	0.10	0.08	0.11	0.05	OL	OL	0.07	0.03	0.09	0.07	0.06	<0.02	0.06	<0.02
25-Aug-2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
26-Aug-2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
27-Aug-2017	1.93	2.73	0.11	0.08	0.09	0.08	0.10	0.04	0.08	0.05	0.08	0.04	OL	OL	0.08	0.02	0.08	0.11
28-Aug-2017	1.98	2.72	0.10	0.07	0.13	0.10	OL	OL	0.11	0.07	0.08	0.04	0.09	0.07	0.10	0.03	0.09	0.02
29-Aug-2017	1.50	2.30	0.09	0.06	0.08	0.07	0.09	0.03	0.12	0.11	0.07	0.03	0.09	0.07	0.07	0.02	0.07	<0.02
30-Aug-2017	1.81	2.66	OL	OL	0.10	0.07	0.10	0.04	0.09	0.05	0.10	0.05	0.07	0.06	0.08	0.02	0.08	<0.02
31-Aug-2017	1.63	2.62	0.09	0.07	0.12	0.11	OL	OL	0.09	0.07	0.08	0.04	0.08	0.07	0.08	0.03	0.09	<0.02
Total number of measurements taken, A:				19		20		19		21		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:				19		20		19		21		20		20		20		20
Compliance with Turbidity Standard, C= B/A X 100%:				100%		100%		100%		100%		100%		100%		100%		100%

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

Report Compiled By: H.Demchenko

Comments:
There was no result for the raw online analyzer on August 13 due to maintenance requirements.

Approved in LIMS By: C.Diduck



WATER TREATMENT PLANT FREE CHLORINE ON-LINE MONITORING REPORT
Deacon Booster Pumping Station

Water System Code: **252.00**

Licence Number: **PWS-09-412-01**

Report Created: 01 September 2017

Report Period: August 2017

Date	BRANCH 1 [mg/L]		BRANCH 2 [mg/L]	
	Average	Minimum	Average	Minimum
01/08/2017	1.08	0.96	1.08	0.95
02/08/2017	1.18	1.12	1.18	1.10
03/08/2017	1.18	1.09	1.16	1.10
04/08/2017	1.13	1.05	1.17	1.10
05/08/2017	1.04	0.98	1.16	1.12
06/08/2017	1.06	0.95	1.15	1.10
07/08/2017	1.08	1.02	1.10	1.04
08/08/2017	1.17	1.06	1.09	1.01
09/08/2017	1.26	1.14	1.13	0.96
10/08/2017	1.19	1.02	1.12	0.98
11/08/2017	1.12	0.98	1.04	0.91
12/08/2017	1.19	1.12	1.11	1.03
13/08/2017	1.19	1.13	1.09	1.04
14/08/2017	1.31	1.16	1.21	1.06
15/08/2017	1.19	0.84	1.10	0.76
16/08/2017	1.34	1.25	1.24	1.14
17/08/2017	1.21	0.98	1.23	1.02
18/08/2017	1.19	1.09	1.37	1.19
19/08/2017	1.34	1.11	1.43	1.25
20/08/2017	1.31	1.18	1.37	1.25
21/08/2017	1.24	1.18	1.28	1.18
22/08/2017	1.16	1.07	1.26	1.11
23/08/2017	1.28	0.69	1.42	0.94
24/08/2017	1.36	1.17	1.45	1.11
25/08/2017	1.35	1.20	1.45	1.19
26/08/2017	1.27	1.09	1.30	1.06
27/08/2017	1.20	1.05	1.20	1.10
28/08/2017	1.23	1.10	1.21	1.06
29/08/2017	1.24	1.10	1.21	1.07
30/08/2017	1.24	1.12	1.27	1.11
31/08/2017	1.25	1.17	1.34	1.30

Total Number of Measurements, A: 21599 21596
Minimum Free Chlorine Standard: 0.5 0.5

Number of Measurements Meeting Standard, B: 21599 21596

COMPLIANCE, C = B/A X 100%: 100.00 100.00

File Path: N:\Water Treatment Branch\Administration\Reports\Regulatory Submissions\Chlorine\2017\08-August

Submitted By (Print): D.Merredew

Signature: Original signed by D.Merredew



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		
Licence No. PWS-09-412-01	Free Chlorine (mg/L)		Total Chlorine (mg/L)	Free Chlorine (mg/L)		Total Chlorine (mg/L)
Date	Analyser	Grab	Grab	Analyser	Grab	Grab
01-Aug-2017	0.99	1.13	1.30	0.99	1.10	1.26
02-Aug-2017	1.19	1.21	1.39	1.20	1.21	1.40
03-Aug-2017	1.24	1.21	1.49	OL	1.30	1.46
04-Aug-2017	NS	NS	NS	NS	NS	NS
05-Aug-2017	NS	NS	NS	NS	NS	NS
06-Aug-2017	NS	NS	NS	NS	NS	NS
07-Aug-2017	NS	NS	NS	NS	NS	NS
08-Aug-2017	1.10	1.06	1.28	1.08	1.08	1.32
09-Aug-2017	1.17	1.19	1.37	1.08	1.10	1.29
10-Aug-2017	1.13	1.15	1.35	1.03	1.07	1.21
11-Aug-2017	1.08	1.18	1.33	1.00	1.06	1.22
12-Aug-2017	NS	NS	NS	NS	NS	NS
13-Aug-2017	1.16	1.26	1.42	1.05	1.12	1.26
14-Aug-2017	1.39	1.28	1.48	1.28	1.17	1.36
15-Aug-2017	1.04	1.27	1.52	0.95	1.20	1.36
16-Aug-2017	1.28	1.26	1.45	1.17	1.19	1.41
17-Aug-2017	1.24	1.30	1.50	1.14	1.27	1.41
18-Aug-2017	NS	NS	NS	NS	NS	NS
19-Aug-2017	NS	NS	NS	NS	NS	NS
20-Aug-2017	1.34	1.40	1.58	1.33	1.36	1.56
21-Aug-2017	1.22	1.37	1.62	1.23	1.35	1.56
22-Aug-2017	1.15	1.27	1.41	1.21	1.23	1.46
23-Aug-2017	1.09	1.14	1.37	1.21	1.15	1.31
24-Aug-2017	1.25	1.26	1.45	1.36	1.36	1.57
25-Aug-2017	NS	NS	NS	NS	NS	NS
26-Aug-2017	NS	NS	NS	NS	NS	NS
27-Aug-2017	1.18	1.27	1.43	1.24	1.31	1.49
28-Aug-2017	1.18	1.22	1.39	1.22	1.28	1.44
29-Aug-2017	1.22	1.32	1.45	1.17	1.34	1.49
30-Aug-2017	1.27	1.33	1.56	1.31	1.36	1.54
31-Aug-2017	1.25	1.35	1.54	1.21	1.38	1.54
Total number of measurements taken, A:	22				22	
Chlorine Standard for Monitoring Location (mg/L):					0.50	
Number of measurements meeting standard, B:					22	
Compliance with Chlorine Standard, C= B/A X 100%:					100%	

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

Comments: Report Compiled By: _____ H.Demchenko

August 15: WTP operators were notified that analyzers required maintenance.

Approved in LIMS By: _____ C.Diduck



CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT
WATER SERVICES

Water System Code: 252.00
Licence Number: PWS-09-412-01

WATER TREATMENT PLANT UV REPORT

Report Period: August 2017

Report Created: Friday, September 01, 2017

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		
1/08/2017	95.48	0.00	0.00	82.67	82.67	0.00	0.00	0.00	0.00	0.00	0.00	48.35	48.35	0.00	0.00	85.00	85.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	216.02	216.02	100.00			
2/08/2017	95.40	0.00	0.00	84.47	84.47	0.00	0.00	0.00	0.00	0.00	0.00	51.14	51.14	0.00	0.00	84.88	84.88	0.00	0.00	0.00	0.00	0.00	0.10	0.16	0.27	0.00	0.10	220.66	220.77	99.95	
3/08/2017	95.15	0.00	0.00	78.01	78.01	0.00	0.00	0.00	0.00	0.00	0.00	62.41	62.41	0.00	0.00	48.43	48.43	0.00	0.00	0.00	0.00	0.00	0.05	33.10	33.15	0.00	0.05	221.95	222.01	99.98	
4/08/2017	95.14	0.00	10.07	53.83	63.90	0.00	0.00	7.63	7.63	0.00	0.00	72.83	72.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	79.97	79.97	0.00	10.07	214.26	224.33	95.51
5/08/2017	95.37	0.00	0.00	0.00	0.00	0.00	0.00	70.82	70.82	0.00	0.00	62.84	62.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	90.05	90.05	0.00	0.00	223.70	223.70	100.00
6/08/2017	95.22	0.00	0.00	0.00	0.00	0.00	0.00	71.18	71.18	0.00	0.00	67.05	67.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	78.90	78.90	0.00	0.00	217.13	217.13	100.00
7/08/2017	95.52	0.00	0.00	0.00	0.00	0.00	0.00	72.92	72.92	0.00	0.00	61.62	61.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	76.86	76.86	0.00	0.00	211.41	211.41	100.00
8/08/2017	95.37	0.00	0.00	27.46	27.46	0.00	0.00	53.58	53.58	0.00	0.00	49.83	49.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	79.09	79.09	0.00	0.00	209.96	209.96	100.00
9/08/2017	95.31	0.00	0.00	77.89	77.89	0.00	0.00	0.00	0.00	0.00	0.00	51.62	51.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	80.53	80.53	0.00	0.00	210.04	210.04	100.00
10/08/2017	95.39	0.00	0.00	77.98	77.98	0.00	0.00	0.00	0.00	0.00	0.00	51.37	51.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	80.45	80.45	0.00	0.00	209.81	209.81	100.00
11/08/2017	94.96	0.00	0.00	76.68	76.68	0.00	0.00	0.00	0.00	0.00	0.00	49.78	49.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	77.96	77.96	0.00	0.00	204.41	204.41	100.00
12/08/2017	94.64	0.00	0.00	76.43	76.43	0.00	0.00	0.00	0.00	0.00	0.00	49.30	49.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	77.22	77.22	0.00	0.00	202.94	202.94	100.00
13/08/2017	93.83	0.00	0.00	76.44	76.44	0.00	0.00	0.00	0.00	0.00	0.00	49.37	49.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	77.17	77.17	0.00	0.00	202.98	202.98	100.00
14/08/2017	93.90	0.00	0.00	78.73	78.73	0.00	0.00	0.00	0.00	0.00	0.00	51.59	51.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	80.32	80.32	0.00	0.00	210.64	210.64	100.00
15/08/2017	93.90	0.00	0.00	81.39	81.39	0.00	0.00	0.00	0.00	0.00	0.00	52.57	52.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	81.69	81.69	0.00	0.00	215.66	215.66	100.00
16/08/2017	93.63	0.00	0.00	84.81	84.81	0.00	0.00	0.00	0.00	0.00	0.00	54.18	54.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	79.98	79.98	0.00	0.00	218.97	218.97	100.00
17/08/2017	93.71	0.00	0.00	68.03	68.03	0.00	0.00	17.14	17.14	0.00	0.00	32.00	32.00	0.00	0.00	10.14	10.14	0.00	0.00	26.46	26.46	0.00	0.00	64.75	64.75	0.00	0.00	218.53	218.53	100.00	
18/08/2017	93.51	0.00	0.00	84.92	84.92	0.00	0.00	0.00	0.00	0.00	0.00	16.99	16.99	0.00	0.00	0.00	0.00	0.00	0.00	61.44	61.44	0.00	0.00	55.66	55.66	0.00	0.00	219.01	219.01	100.00	
19/08/2017	93.14	0.00	0.00	85.00	85.00	0.00	0.00	0.00	0.00	0.00	0.00	52.57	52.57	0.00	0.00	51.56	51.56	0.00	0.34	29.05	29.39	0.00	0.00	0.00	0.00	0.34	218.18	218.53	99.84		
20/08/2017	92.98	0.00	0.00	82.90	82.90	0.00	0.00	0.00	0.00	0.00	0.00	52.09	52.09	0.00	0.00	46.38	46.38	0.00	0.00	33.23	33.23	0.00	0.00	0.00	0.00	0.00	214.59	214.59	100.00		
21/08/2017	93.14	0.00	0.00	78.81	78.81	0.00	0.00	0.00	0.00	0.00	0.00	50.92	50.92	0.00	0.00	0.00	0.00	0.00	0.00	32.47	32.47	0.00	0.00	48.81	48.81	0.00	0.00	211.01	211.01	100.00	
22/08/2017	94.08	0.00	0.00	71.00	71.00	0.00	0.00	0.00	0.00	0.00	0.00	59.62	59.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	76.42	76.42	0.00	0.00	207.04	207.04	100.00
23/08/2017	94.60	0.01	0.01	57.87	57.89	0.00	0.00	0.00	0.00	0.00	0.00	64.79	64.79	0.00	0.00	0.00	0.00	0.00	0.00	23.75	23.75	0.30	0.34	38.44	39.08	0.31	0.35	184.85	185.51	99.64	
24/08/2017	95.04	0.00	0.04	60.13	60.17	0.00	0.00	0.00	0.00	0.00	0.00	69.34	69.34	0.00	0.00	0.00	0.00	0.00	0.00	67.67	67.67	0.00	0.00	0.00	0.00	0.04	197.14	197.18	99.98		
25/08/2017	95.24	0.00	0.00	58.80	58.80	0.00	0.00	0.00	0.00	0.00	0.00	68.25	68.25	0.00	0.00	0.00	0.00	0.00	0.00	66.60	66.60	0.00	0.00	0.00	0.00	0.00	193.65	193.65	100.00		
26/08/2017	95.21	0.00	0.00	60.27	60.27	0.00	0.00	0.00	0.00	0.00	0.00	66.13	66.13	0.00	0.00	0.00	0.00	0.00	0.00	30.88	30.88	0.00	0.00	36.43	36.43	0.00	0.00	193.71	193.71	100.00	
27/08/2017	95.28	0.00	0.00	74.00	74.00	0.00	0.00	0.00	0.00	0.00	0.00	47.97	47.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	77.05	77.05	0.00	0.00	199.02	199.02	100.00
28/08/2017	95.22	0.00	0.00	74.03	74.03	0.00	0.00	0.00	0.00	0.00	0.00	47.72	47.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	77.23	77.23	0.00	0.00	198.98	198.98	100.00
29/08/2017	95.38	0.00	0.00	77.10	77.10	0.00	0.00	0.00	0.00	0.00	0.00	49.48	49.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	79.61	79.61	0.00	0.00	206.18	206.18	100.00
30/08/2017	95.09	0.00	0.00	83.03	83.03	0.00	0.00	0.00	0.00	0.00	0.00	54.31	54.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	83.78	83.78	0.00	0.00	221.12	221.12	100.00
31/08/2017	95.01	0.00	0.00	84.99	84.99	0.00	0.00	0.00	0.00	0.00	0.00	60.11	60.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	84.97	84.97	0.00	0.00	230.07	230.07	100.00
		0.01	10.12	2057.69	2067.81	0.00	0.00	293.27</td																							