



## Water and Waste Eaux et déchets

Derek Clarke, Drinking Water Officer  
Office of Drinking Water, Manitoba Conservation and Climate  
Box 6000, 75-7th Avenue  
Gimli, MB R0C 1B0

**August 6, 2020**

### **RE: JULY 2020 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 2020.

The July on-line and grab sampling turbidity reports include results obtained for the Water Treatment Plant raw water and the eight filters. The daily maximum turbidities were greater than 0.30 NTU on several occasions; the elevated turbidities occurred for less than 12 consecutive hours. There were six occasions where the turbidity for a filter exceeded 1.00 NTU. These were on July 3<sup>rd</sup> (Filter 4 and 6), July 4<sup>th</sup> (Filter 6), July 12<sup>th</sup> (Filter 1), July 13<sup>th</sup> (Filter 8), and July 17<sup>th</sup> (Filter 3). Additional information for the exceedances is provided separately in Corrective Action Reports. With the exception of these exceedances, the turbidity results for the filter effluent met the licence requirements.

The July 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 July 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 can be reached by telephone at 204-986-8359 or by e-mail at rgrosselle@winnipeg.ca.

Yours sincerely,

*Original signed by R. Grosselle*  
(Signed original available upon request)

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)  
B. Bradford (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**

**July 2020 Turbidity (NTU)**

Date	Raw		Filter #1		Filter #2		Filter #3		Filter #4		Filter #5		Filter #6		Filter #7		Filter #8	
	Avg	Avg	Avg	Max	Avg	Max	Avg	Max	Avg	Max	Avg	Max	Avg	Max	Avg	Max	Avg	Max
1/07/2020	1.64	0.03	0.16		0.02	0.06	0.06	0.09	0.08	0.23	0.02	0.07	0.07	0.54	0.09	0.35	0.06	0.12
2/07/2020	1.51	0.05	0.22		0.05	0.27	0.07	0.14	0.11	0.19	0.05	0.16	0.11	0.77	0.12	0.25	0.09	0.21
3/07/2020	2.12	0.04	0.11		0.04	0.11	0.07	0.16	0.10	1.51	0.02	0.16	0.09	1.29	0.09	0.23	0.06	0.17
4/07/2020	3.02	0.04	0.11		0.04	0.21	0.07	0.13	0.12	0.18	0.01	0.52	0.08	1.34	0.11	0.21	0.07	0.26
5/07/2020	3.29	0.04	0.12		0.04	0.14	0.06	0.13	0.11	0.19	0.00	0.10	0.07	0.17	0.10	0.21	0.08	0.35
6/07/2020	2.64	0.04	0.28		0.04	0.10	0.06	0.10	0.10	0.20	0.01	0.11	0.07	0.15	0.09	0.25	0.07	0.17
7/07/2020	3.44	0.04	0.15		0.04	0.15	0.07	0.14	0.10	0.19	0.01	0.07	0.05	0.09	0.08	0.22	0.06	0.16
8/07/2020	2.38	0.04	0.17		0.05	0.21	0.07	0.16	0.13	0.35	0.02	0.08	0.09	0.22	0.10	0.22	0.07	0.19
9/07/2020	2.60	0.04	0.13		0.06	0.13	0.07	0.16	0.11	0.74	0.02	0.09	0.05	0.26	0.13	0.26	0.11	0.18
10/07/2020	2.68	0.05	0.24		0.07	0.19	0.08	0.16	0.11	0.21	0.04	0.27	0.10	0.24	0.11	0.21	0.09	0.17
11/07/2020	4.18	0.08	0.20		0.10	0.18	0.11	0.14	0.12	0.27	0.06	0.16	0.11	0.26	0.11	0.25	0.09	0.24
12/07/2020	4.16	0.06	1.13		0.10	0.13	0.10	0.16	0.11	0.19	0.04	0.13	0.07	0.28	0.08	0.16	0.06	0.15
13/07/2020	3.12	0.04	0.21		0.11	0.18	0.08	0.16	0.09	0.27	0.01	0.06	0.04	0.16	0.06	0.36	0.04	1.62
14/07/2020	3.97	0.04	0.13		0.11	0.17	0.08	0.16	0.10	0.29	0.00	0.09	0.03	0.14	0.05	0.11	0.03	0.13
15/07/2020	3.47	0.04	0.11		0.11	0.19	0.09	0.15	0.09	0.17	0.00	0.01	0.03	0.12	0.06	0.12	0.03	0.08
16/07/2020	3.23	0.04	0.07		0.10	0.16	0.09	0.17	0.11	0.21	0.00	0.00	0.02	0.13	0.05	0.14	0.04	0.12
17/07/2020	3.51	0.06	0.18		0.04	0.07	0.12	2.13	0.13	0.21	0.02	0.07	0.02	0.11	0.05	0.14	0.04	0.12
18/07/2020	3.37	0.04	0.11		0.05	0.13	0.11	0.20	0.12	0.20	0.02	0.08	0.02	0.06	0.05	0.12	0.03	0.12
19/07/2020	3.20	0.04	0.11		0.04	0.15	0.11	0.18	0.13	0.21	0.02	0.09	0.03	0.10	0.06	0.08	0.03	0.05
20/07/2020	2.97	0.04	0.06		0.04	0.11	0.10	0.19	0.12	0.22	0.03	0.05	0.03	0.12	0.06	0.15	0.04	0.11
21/07/2020	2.24	0.04	0.10		0.04	0.06	0.11	0.14	0.10	0.20	0.02	0.08	0.02	0.11	0.05	0.14	0.03	0.12
22/07/2020	2.92	0.04	0.10		0.05	0.12	0.10	0.19	0.12	0.18	0.02	0.08	0.02	0.08	0.04	0.13	0.03	0.12
23/07/2020	3.29	0.04	0.12		0.07	0.14	0.12	0.27	0.12	0.19	0.02	0.05	0.03	0.11	0.06	0.13	0.03	0.05
24/07/2020	2.83	0.04	0.07		0.07	0.17	0.13	0.16	0.12	0.21	0.03	0.08	0.03	0.44	0.06	0.15	0.04	0.13
25/07/2020	2.77	0.04	0.11		0.10	0.14	0.12	0.23	0.12	0.21	0.02	0.08	0.03	0.06	0.06	0.11	0.04	0.13
26/07/2020	3.10	0.04	0.11		0.11	0.19	0.10	0.17	0.14	0.16	0.02	0.08	0.05	0.13	0.05	0.13	0.04	0.13
27/07/2020	3.59	0.04	0.11		0.14	0.23	0.10	0.19	0.14	0.24	0.03	0.07	0.05	0.22	0.07	0.12	0.04	0.12
28/07/2020	3.24	0.05	0.13		0.10	0.19	0.10	0.18	0.15	0.30	0.02	0.06	0.04	0.13	0.06	0.14	0.05	0.12
29/07/2020	3.25	0.07	0.13		0.07	0.15	0.12	0.22	0.17	0.25	0.04	0.08	0.03	0.33	0.06	0.13	0.05	0.11
30/07/2020	3.57	0.05	0.12		0.05	0.11	0.09	0.17	0.13	0.22	0.02	0.07	0.03	0.09	0.05	0.11	0.03	0.11
31/07/2020	3.30	0.04	0.12		0.06	0.11	0.09	0.11	0.11	0.21	0.02	0.08	0.03	0.11	0.05	0.12	0.03	0.12

Total Number of Measurements Taken, A: 14874      15899      14848      15946      13005      16615      16343      17190  
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: 14871      15899      14846      15944      13004      16609      16341      17189  
Compliance with Turbidity Standard, C = B/A X 100%: 99.980%      100.000%      99.987%      99.987%      99.992%      99.964%      99.988%      99.994%

File Path: N:\Water Treatment Branch\Administration\Reports\Regulatory Submissions\Turbidity\2020\07-July

Submitted By (Print): D.Minor

Signature: Original signed by D.Minor



Water System Code: 252.00		Turbidity (NTU)																	
Licence No. PWS-09-412-01		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-Jul-2020		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
02-Jul-2020		1.05	1.36	0.16	0.09	0.14	0.06	0.16	0.12	0.14	0.14	0.14	0.04	0.20	0.12	0.17	0.11	0.16	0.07
03-Jul-2020		1.18	1.42	0.10	0.03	0.14	0.07	OL	OL	0.13	0.10	0.12	0.02	0.18	0.11	0.14	0.10	0.14	0.05
04-Jul-2020		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
05-Jul-2020		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
06-Jul-2020		1.53	2.35	0.11	0.04	0.11	0.04	0.10	0.07	0.11	0.11	0.13	0.00	0.13	0.06	0.21	0.15	0.17	0.08
07-Jul-2020		1.34	1.97	0.14	0.06	0.12	0.05	0.12	0.08	0.12	0.12	0.13	0.01	0.14	0.06	0.12	0.07	0.13	0.04
08-Jul-2020		1.57	2.25	0.11	0.04	0.15	0.08	0.18	0.14	0.14	0.13	0.11	0.00	0.16	0.09	0.14	0.09	0.13	0.06
09-Jul-2020		1.61	1.96	0.11	0.04	OL	OL	0.11	0.08	0.17	0.16	0.14	0.02	0.24	0.14	0.17	0.12	0.15	0.09
10-Jul-2020		1.35	2.09	0.13	0.06	0.11	0.08	0.13	0.08	OL	OL	0.15	0.04	0.15	0.09	0.22	0.14	0.18	0.10
11-Jul-2020		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
12-Jul-2020		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
13-Jul-2020		1.44	2.19	0.19	0.08	0.13	0.13	0.14	0.11	0.13	0.11	0.11	0.00	0.10	0.05	0.10	0.04	0.10	0.02
14-Jul-2020		1.49	16.18	0.17	0.06	0.13	0.13	0.16	0.12	0.14	0.11	0.10	0.00	0.14	0.04	0.11	0.05	0.11	0.03
15-Jul-2020		1.58	2.38	0.14	0.04	0.14	0.14	0.11	0.09	0.14	0.11	0.11	0.00	0.16	0.06	0.14	0.05	0.12	0.03
16-Jul-2020		1.52	2.88	0.14	0.06	0.14	0.13	0.14	0.11	0.21	0.19	0.11	0.00	OL	OL	0.14	0.06	0.12	0.03
17-Jul-2020		1.53	2.45	OL	OL	0.13	0.05	0.13	0.12	0.11	0.13	0.11	0.00	0.12	0.03	0.11	0.05	OL	OL
18-Jul-2020		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
19-Jul-2020		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
20-Jul-2020		1.48	2.10	0.13	0.04	0.13	0.05	0.12	0.12	OL	OL	0.11	0.04	0.11	0.02	0.15	0.07	0.12	0.04
21-Jul-2020		1.47	2.20	0.14	0.05	0.12	0.05	0.12	0.12	0.12	0.12	0.12	0.03	0.12	0.04	0.12	0.05	0.15	0.03
22-Jul-2020		1.31	2.11	0.15	0.06	0.13	0.07	0.15	0.15	0.14	0.13	0.23	0.02	0.15	0.03	0.11	0.04	0.11	0.02
23-Jul-2020		1.50	8.77	0.12	0.05	OL	OL	0.14	0.13	0.17	0.16	0.22	0.04	0.16	0.06	0.13	0.05	0.12	0.02
24-Jul-2020		2.28	2.68	0.14	0.05	0.15	0.08	0.15	0.14	OL	OL	0.17	0.04	0.13	0.03	0.18	0.09	0.15	0.05
25-Jul-2020		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
26-Jul-2020		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
27-Jul-2020		1.81	2.90	0.12	0.04	0.15	0.18	0.12	0.10	0.16	0.17	0.13	0.02	0.16	0.09	0.13	0.07	0.12	0.05
28-Jul-2020		1.80	2.99	0.15	0.07	0.20	0.13	0.14	0.12	0.16	0.26	0.12	0.04	0.15	0.07	0.12	0.06	0.11	0.03
29-Jul-2020		1.98	3.03	0.17	0.07	0.16	0.08	0.16	0.13	0.18	0.20	0.12	0.05	0.12	0.04	0.15	0.08	0.14	0.06
30-Jul-2020		1.78	2.84	0.14	0.06	0.13	0.06	0.12	0.10	0.16	0.13	0.10	0.02	0.12	0.03	OL	OL	0.13	0.05
31-Jul-2020		1.60	3.05	0.14	0.06	0.14	0.06	0.12	0.10	0.12	0.12	0.03	0.12	0.03	0.10	0.04	OL	OL	
<b>Total number of measurements taken, A:</b>				21		20		21		19		22		21		21		20	
<b>Turbidity Standard for Monitoring Location (NTU):</b>				0.30		0.30		0.30		0.30		0.30		0.30		0.30		0.30	
<b>Number of measurements meeting standard, B:</b>				21		20		21		19		22		21		21		20	
<b>Compliance with Turbidity Standard, C= B/A X 100%:</b>				100%		100%		100%		100%		100%		100%		100%		100%	

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

Comments:

Report Compiled By: H. Demchenko

Authorized in Sample Manager By: B. Bradford



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-09-412-01

Report Created: 01 August 2020

Report Period: July 2020

Date	BRANCH 1 [mg/L]		BRANCH 2 [mg/L]	
	Average	Minimum	Average	Minimum
01/07/2020	0.98	0.90	1.04	0.96
02/07/2020	1.06	0.98	1.13	1.06
03/07/2020	1.19	1.09	1.24	1.15
04/07/2020	1.20	1.09	1.24	1.15
05/07/2020	1.16	1.06	1.19	1.08
06/07/2020	1.10	1.06	1.15	1.09
07/07/2020	1.14	1.05	1.23	1.06
08/07/2020	1.09	1.00	1.19	1.08
09/07/2020	1.12	1.06	1.21	1.11
10/07/2020	1.20	1.12	1.28	1.18
11/07/2020	1.30	1.06	1.32	1.09
12/07/2020	1.37	1.28	1.36	1.26
13/07/2020	1.26	1.15	1.30	1.18
14/07/2020	1.22	1.07	1.18	1.06
15/07/2020	1.22	1.05	1.21	1.05
16/07/2020	1.33	1.12	1.35	1.19
17/07/2020	1.38	1.17	1.34	1.17
18/07/2020	1.39	1.20	1.32	1.19
19/07/2020	1.38	1.26	1.26	1.11
20/07/2020	1.38	1.15	1.28	1.10
21/07/2020	1.39	1.13	1.23	1.11
22/07/2020	1.34	1.14	1.20	1.02
23/07/2020	1.33	1.08	1.25	1.09
24/07/2020	1.31	1.11	1.23	1.11
25/07/2020	1.26	1.01	1.21	1.07
26/07/2020	1.24	1.09	1.21	1.09
27/07/2020	1.36	1.09	1.28	1.10
28/07/2020	1.45	1.25	1.32	1.22
29/07/2020	1.24	1.06	1.22	1.12
30/07/2020	1.41	1.14	1.23	1.13
31/07/2020	1.38	1.19	1.39	1.21

Total Number of Measurements, A: 21600 21600

Minimum Free Chlorine Standard: 0.5 0.5

Number of Measurements Meeting Standard, B: 21600 21600

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

File Path: N:\Water Treatment Branch\Administration\Reports\Regulatory Submissions\Chlorine\2020\07-July

Submitted By (Print): D.MinorSignature: Original signed by D.Minor



Water and Waste  
Eaux et déchets

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-Jul-2020	ns	ns	ns	ns	ns	ns
02-Jul-2020	1.04	1.06	1.23	1.11	1.09	1.28
03-Jul-2020	1.16	1.20	1.41	1.22	1.28	1.46
04-Jul-2020	ns	ns	ns	ns	ns	ns
05-Jul-2020	ns	ns	ns	ns	ns	ns
06-Jul-2020	1.11	1.14	1.36	1.13	1.22	1.43
07-Jul-2020	1.11	1.19	1.38	1.16	1.26	1.45
08-Jul-2020	1.13	1.13	1.35	1.22	1.21	1.36
09-Jul-2020	1.12	1.16	1.40	1.19	1.24	1.40
10-Jul-2020	1.23	1.29	1.47	1.34	1.31	1.51
11-Jul-2020	ns	ns	ns	ns	ns	ns
12-Jul-2020	ns	ns	ns	ns	ns	ns
13-Jul-2020	1.31	1.35	1.54	1.38	1.46	1.59
14-Jul-2020	1.28	1.30	1.52	1.13	1.22	1.45
15-Jul-2020	1.22	1.28	1.47	1.17	1.21	1.38
16-Jul-2020	1.31	1.37	1.56	1.38	1.32	1.47
17-Jul-2020	1.36	1.38	1.55	1.33	1.30	1.50
18-Jul-2020	ns	ns	ns	ns	ns	ns
19-Jul-2020	ns	ns	ns	ns	ns	ns
20-Jul-2020	1.45	1.40	1.59	1.30	1.31	1.49
21-Jul-2020	1.44	1.39	1.57	1.24	1.31	1.48
22-Jul-2020	1.20	1.27	1.37	1.18	1.27	1.47
23-Jul-2020	1.30	1.33	1.50	1.23	1.27	1.44
24-Jul-2020	1.38	1.31	1.48	1.28	1.22	1.43
25-Jul-2020	ns	ns	ns	ns	ns	ns
26-Jul-2020	ns	ns	ns	ns	ns	ns
27-Jul-2020	1.28	1.32	1.63	1.23	1.29	1.51
28-Jul-2020	1.50	1.43	1.51	1.35	1.28	1.41
29-Jul-2020	1.39	1.30	1.46	1.22	1.24	1.38
30-Jul-2020	1.39	1.30	1.42	1.32	1.31	1.47
31-Jul-2020	1.47	1.54	1.71	1.42	1.44	1.57
<b>Total number of measurements taken, A:</b>	22	22			22	
<b>Chlorine Standard for Monitoring Location (mg/L):</b>					0.50	
<b>Number of measurements meeting standard, B:</b>					22	
<b>Compliance with Chlorine Standard, C= B/A X 100%:</b>					100%	

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

Comments:

Report Compiled By: H. Demchenko

Authorized By: B. Bradford



**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: July 2020

Report Created: Saturday, August 01, 2020

Date	Transmittance %	UVR-D100A				UVR-D200A				UVR-D300A				UVR-D400A				UVR-D500A				UVR-D600A				Total Water Volume [ML]				% 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]				
		UVTavg	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
01/07/2020	96.06	0.00	0.86	67.67	68.53	0.00	0.00	0.00	0.00	0.00	1.38	77.43	78.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.83	73.81	74.64	0.00	3.07	218.91	221.98	98.62
02/07/2020	95.23	0.00	1.57	66.84	68.41	0.00	0.00	0.00	0.00	0.00	0.88	77.79	78.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.89	74.02	74.91	0.00	3.34	218.65	221.99	98.49
03/07/2020	95.80	0.00	1.44	67.37	68.81	0.00	0.00	0.00	0.00	0.00	0.72	78.19	78.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.26	74.00	74.26	0.00	2.42	219.56	221.98	98.91
04/07/2020	95.84	0.00	1.77	67.11	68.88	0.00	0.00	0.00	0.00	0.00	0.50	78.40	78.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.04	73.20	74.24	0.00	3.31	218.71	222.02	98.51
05/07/2020	95.64	0.00	2.24	66.35	68.59	0.00	0.00	0.00	0.00	0.00	0.44	78.30	78.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.34	73.27	74.61	0.00	4.02	217.92	221.94	98.19
06/07/2020	95.62	0.00	1.73	67.33	69.05	0.00	0.00	0.00	0.00	0.00	0.33	78.65	78.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.46	73.50	73.96	0.00	2.52	219.48	221.99	98.87
07/07/2020	95.72	0.00	1.78	67.42	69.20	0.00	0.00	0.00	0.00	0.00	0.44	78.58	79.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62	73.18	73.79	0.00	2.84	219.18	222.02	98.72
08/07/2020	95.42	0.00	1.78	67.45	69.24	0.00	0.00	0.00	0.00	0.00	0.61	78.41	79.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.33	72.44	73.77	0.00	3.72	218.30	222.02	98.32
09/07/2020	95.17	0.00	1.91	66.72	68.63	0.00	0.00	0.00	0.00	0.00	0.61	78.22	78.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.58	72.98	74.56	0.00	4.10	217.93	222.02	98.15
10/07/2020	95.24	0.00	1.61	66.23	67.84	0.00	0.00	0.00	0.00	0.00	0.60	77.67	78.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.89	73.97	75.86	0.00	4.10	217.87	221.97	98.15
11/07/2020	94.68	0.00	2.08	65.73	67.80	0.00	0.00	0.00	0.00	0.00	0.82	77.26	78.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.16	74.95	76.12	0.00	4.06	217.94	222.00	98.17
12/07/2020	95.78	0.00	2.24	66.14	68.37	0.00	0.00	0.00	0.00	0.00	0.89	77.84	78.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.26	75.55	75.82	0.00	3.39	219.53	222.91	98.48
13/07/2020	96.25	0.00	1.83	67.14	68.97	0.00	0.00	0.00	0.00	0.00	0.77	78.70	79.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.94	74.57	75.52	0.00	3.54	220.42	223.97	98.42
14/07/2020	96.41	0.00	0.62	21.67	22.29	0.00	0.00	47.23	47.23	0.00	0.77	78.09	78.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.79	73.87	75.66	0.00	3.18	220.86	224.04	98.58
15/07/2020	96.39	0.00	0.00	0.00	0.00	0.00	0.00	69.39	69.39	0.00	1.15	77.35	78.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.32	74.80	76.12	0.00	2.47	221.54	224.01	98.90
16/07/2020	96.45	0.00	0.00	0.00	0.00	0.00	0.00	67.11	67.11	0.00	0.89	72.84	73.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.89	69.12	71.01	0.00	2.78	209.07	211.86	98.69
17/07/2020	96.39	0.00	0.00	0.00	0.00	0.00	0.00	64.99	64.99	0.00	1.32	69.41	70.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.23	67.06	68.30	0.00	2.56	201.47	204.02	98.75
18/07/2020	96.43	0.00	0.00	0.00	0.00	0.00	0.00	64.59	64.59	0.00	1.24	70.20	71.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.08	66.85	67.94	0.00	2.32	201.65	203.97	98.86
19/07/2020	96.54	0.00	0.00	0.00	0.00	0.00	0.00	61.91	61.91	0.00	1.25	67.88	69.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.04	64.92	65.96	0.00	2.30	194.71	197.01	98.83
20/07/2020	96.57	0.03	0.03	20.88	20.94	0.00	0.00	39.51	39.51	0.00	0.85	67.41	68.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.04	64.29	65.33	0.03	1.93	192.09	194.04	98.99
21/07/2020	96.80	0.00	0.00	60.74	60.74	0.00	0.00	0.00	0.00	0.00	1.03	69.13	70.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.02	65.79	66.81	0.00	2.05	195.66	197.70	98.97
22/07/2020	96.70	0.00	0.05	65.01	65.06	0.00	0.00	0.00	0.00	0.00	1.41	73.34	74.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.66	68.85	70.52	0.00	3.12	207.21	210.32	98.52
23/07/2020	96.51	0.00	0.43	67.55	67.98	0.00	0.00	0.00	0.00	0.00	1.79	75.74	77.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.02	72.33	73.35	0.00	3.24	215.62	218.86	98.52
24/07/2020	96.50	0.00	0.29	67.68	67.96	0.00	0.00	0.00	0.00	0.00	1.66	74.83	76.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.03	72.50	74.53	0.00	3.97	215.01	218.98	98.19
25/07/2020	96.44	0.00	0.28	67.58	67.86	0.00	0.00	0.00	0.00	0.00	1.63	76.46	78.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	72.89	73.04	0.00	2.07	216.92	218.99	99.06
26/07/2020	96.49	0.00	0.42	67.40	67.82	0.00	0.00	0.00	0.00	0.00	2.28	75.82	78.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.17	71.93	73.10	0.00	3.87	215.15	219.02	98.23
27/07/2020	96.22	0.00	0.52	71.78	72.29	0.00	0.00	0.00	0.00	0.00	2.35	78.91	81.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.47	76.51	79.98	0.00	6.33	227.20	233.53	97.29
28/07/2020	96.34	0.00	0.25	71.33	71.58	0.00	0.00	0.00	0.00	0.00	2.47	80.11	82.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.16	77.49	80.66	0.00	5.88	228.93	234.81	97.50
29/07/2020	95.83	0.00	0.77	73.43	74.20	0.00	0.00	0.00	0.00	0.00	2.27	79.20	81.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.98	79.88	81.86	0.00	5.02	232.51	237.52	97.89
30/07/2020	96.05	0.00	0.53	75.13	75.66	0.00	0.00	0.00	0.00	0.00	2.51	81.73	84.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.22	82.65	84.87	0.00	5.26	239.51	244.77	97.85
31/07/2020	96.36	0.00	0.73	74.28	75.01	0.00	0.00	0.00	0.00	0.00	2.07	82.94	85.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.07	82.91	84.98	0.00	4.86	240.13	245.00	98.02

Total [ML]: 0.03 27.76 1673.93 1701.72 0.00 0.00 414.74 414.74 0.00 37.90 2366.84 2404.75 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 41.96 2264.10 2306.06 0.03 107.62 6719.62 6827.27

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