

**GOWANUS CANAL SUPERFUND SITE
RTA1 REMEDIAL CONSTRUCTION
Water Quality Monitoring Weekly Data Summary**

PERIOD: February 1st to February 5th, 2021

Date of Report: February 10, 2021

Report Contents

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Prepared by

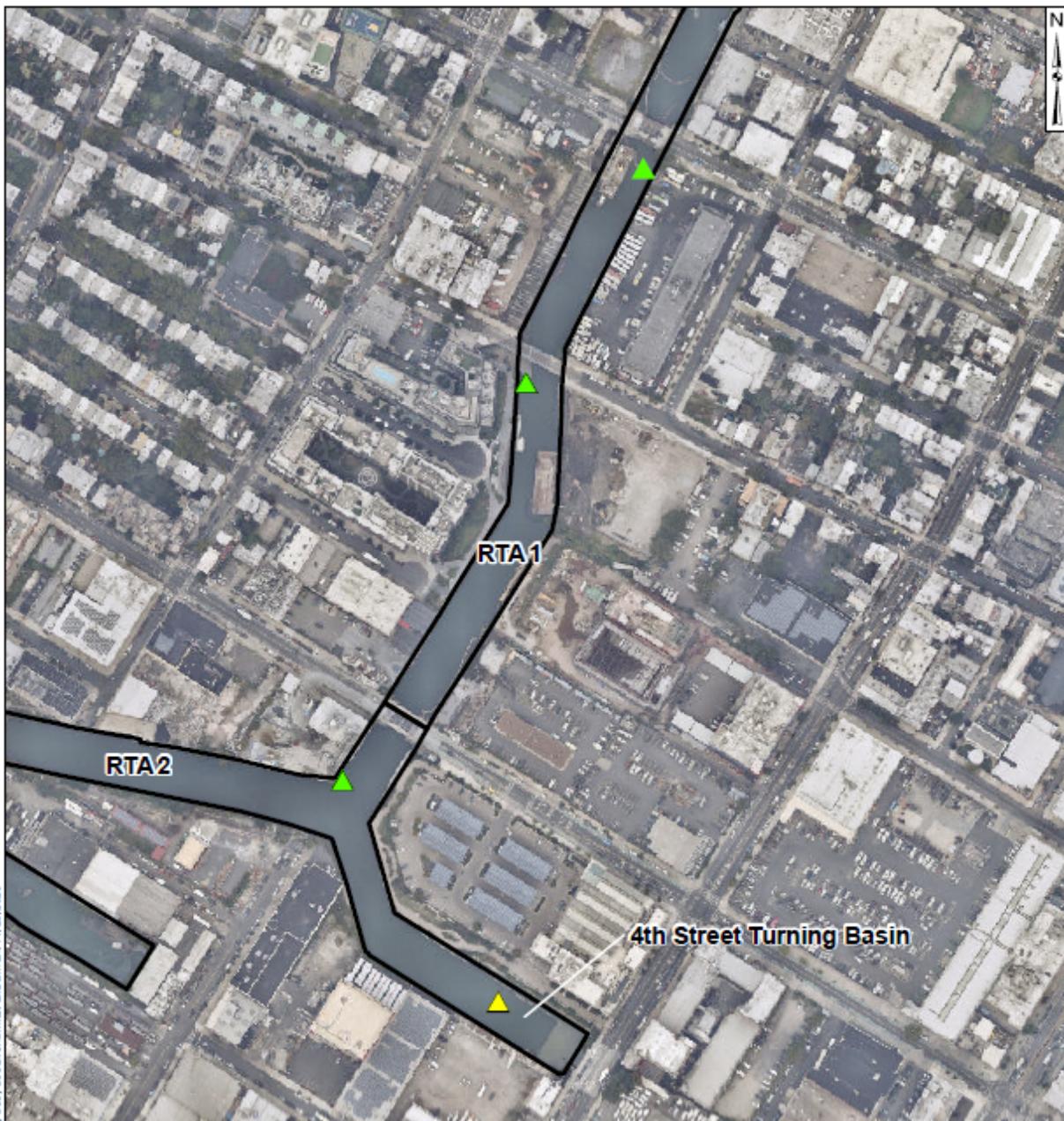
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1. SCOPE OF MONITORING

The following report summarizes water quality monitoring data collected during the week of February 1, 2021. In accordance with the Water Quality Monitoring Plan for In-waterway Construction Activities (WQMP) three turbidity buoys were deployed to monitor turbidity at the start of dredging between Carroll Street Bridge and 3rd Street Bridge. One turbidity buoy was deployed just south of the 3rd Street Bridge outside of the air curtain and traditional turbidity curtain. This buoy is referred to as the 3rd Street Sentinel Buoy. A second turbidity buoy was deployed just south of the Carroll Street Bridge and is referred to as the Carroll Street Sentinel Buoy. The third turbidity buoy was deployed in the Fourth Street Turning Basin in order to monitor background turbidity unaffected by in-water construction activities. This turbidity buoy is referred to as the Ambient Buoy. Prior to dredging north of the Union Street Bridge, on January 22, 2021 a fourth turbidity buoy was deployed just south of the Union Street Bridge and is referred to as the Union Street Sentinel Buoy. A map indicating the approximate locations of the turbidity buoys is provided in **Figure 1**. Each turbidity buoy was equipped with a YSI EXO3 water quality meter with optical turbidity sensor. The buoys were field calibrated and programmed such that readings were collected every 15 minutes. After each measurement, the turbidity data were transmitted to a File Transfer Portal (FTP) site via telemetry. This report presents a summary of turbidity data collected from the ambient and sentinel buoys between 7 AM and 6 PM each day during the week of February 1st. Daily turbidity data tables are provided in **Appendix A**. No handheld measurements were collected during this reporting period. Visual observations of turbidity and sheen are summarized in Section 4.



\Beverly\Gowanus-PRM03_Geovm\Canal_wide\Turbidity Buoy Locations.mxd 1/28/2020

Legend

- ▲ Ambient Buoy
- ▲ Sentinel Buoy
- RTA Boundary

300 150 0 300
Feet

Turbidity Buoy Locations

Gowanus Canal, Brooklyn, NY

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Kennesaw, GA

February 2021

Figure

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2. REPORT OF EXCEEDANCES

No exceedances of the action level criterion were met during the reporting period. Exceedances of the numerical trigger criterion were observed at the Union Street Sentinel Buoy on February 4th and February 5th. An exceedance of the numerical trigger level criterion was observed at the Carroll Street Sentinel Buoy on February 5th. Further information is provided in Section 2.1. Refer to the WQMP for further information regarding the Trigger and Action Criteria. Threshold criteria are summarized as follows:

- **Trigger criterion** – Any of the following:
 - The rolling average of the relevant sentinel buoy turbidity measurements over a one-hour period exceeds the rolling average of the ambient buoy turbidity measurements by 20 NTU excluding any eliminated outlier measurements and in-waterway construction activities cannot be immediately excluded as the source following consultation with EPA; or
 - Either an oil sheen or a turbidity plume is visually observed at the relevant sentinel buoy and in-waterway construction activities are readily identified as the source.
- **Action criterion** – Any of the following:
 - The rolling average of the turbidity measurements of the sentinel buoy outside of RTA1 over a one-hour period exceeds the rolling average of the ambient buoy turbidity measurements by 40 NTU excluding any eliminated outlier measurements and in-waterway construction activities cannot be immediately excluded as the source following consultation with EPA; or
 - Either an oil sheen or a turbidity plume is visually observed outside of RTA1 and any deployed engineering controls and in-waterway construction activities are readily identified as the source.

An outlier is defined as a reading that is outside the range of 50 to 200 percent of the average of the three previous readings. In addition, to be considered an outlier, the subsequent reading must return to a range of 75 to 133 percent of the average of the three readings preceding the outlier.

2.1 Response to Criteria Exceedances

The trigger level criterion serves to provide early notification to the contractor of construction activities that may lead to an exceedance of the action level criterion. In the event of an exceedance to the trigger criterion, the contractor will not be stopped and the contractor will be directed to investigate the source of the exceedance and evaluate Best Management Practices (BMPs). In the event of an exceedance to the action level criterion, in-waterway construction activities may be slowed or temporarily suspended as necessary while the contractor investigates the source of the exceedance and appropriate mitigation and corrective measures are determined. A more detailed description of responses to exceedances of the trigger and action level criteria is provided in Section 4.2 of the WQMP.

There were no exceedances of the action level criteria during the reporting period. On February 4th, an exceedance to the numerical trigger criterion was detected at the Union Street Sentinel Buoy between 12:45 PM and 2:00 PM, and at 3:15 PM. On February 5th, exceedances to the numerical trigger criterion were detected at the Union Street Sentinel Buoy between 9:15 AM and 11:00 AM and between 11:30 AM and 12:45 PM. On February 5th, an exceedance of the numerical trigger criterion was detected in the vicinity of the Carroll Street Sentinel Buoy between 10:15 AM and 10:45 AM. All exceedances to the numerical trigger criterion detected at the Union St Sentinel Buoy and Carroll Street Sentinel Buoy were due to mini hopper changeouts resulting in temporary sediment resuspension. No exceedances to either numerical threshold criteria were observed at the 3rd Street Bridge during the reporting period.

3. TURBIDITY BUOY DATA

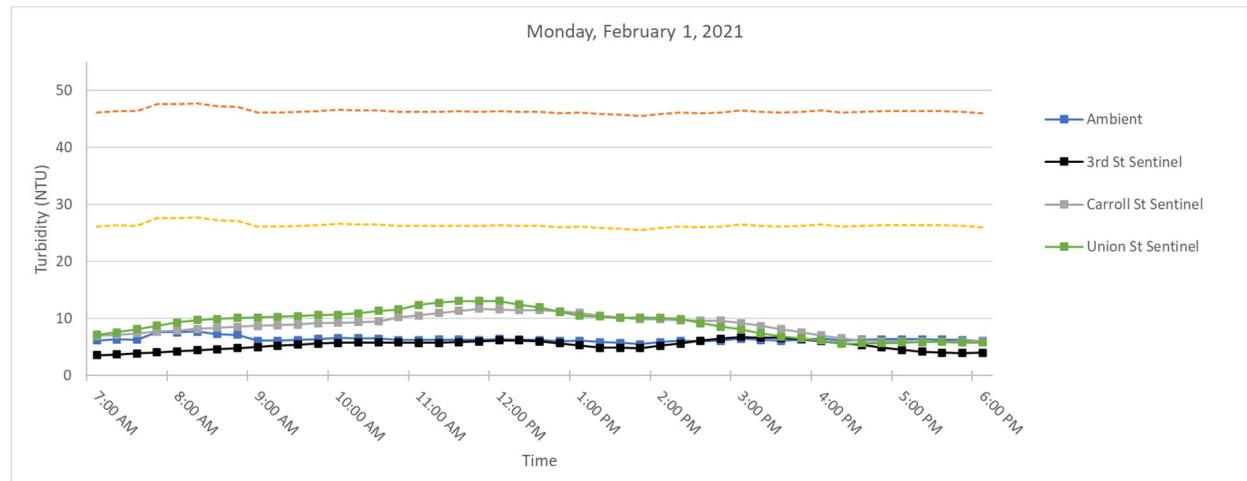
The following section provides turbidity data for the sentinel and ambient turbidity buoys from 7 AM to 6 PM from February 1 to February 5, 2021. Exceedances of the numerical trigger criterion were observed at the Union Street Sentinel Buoy on February 4th and February 5th. An exceedance of the numerical trigger level criterion was observed at the Carroll Street Sentinel Buoy on February 5th. Section 2.1 contains further information on the exceedances. No exceedances to the numerical rolling average action criterion were observed during the reporting period. **Table 1** below provides a summary of the turbidity data for the reporting period.

Table 1. Daily average and maximum differences between the rolling average turbidity readings from RTA1 sentinel buoys and the ambient buoy between 7 AM and 6 PM

Date	Average Rolling Average Difference (NTU)			Maximum Rolling Average Difference (NTU)		
	3rd St - Ambient	Carroll St - Ambient	Union St - Ambient	3rd St - Ambient	Carroll St - Ambient	Union St - Ambient
Monday February 1, 2021	-1.07	2.45	2.91	0.53	5.52	6.89
Tuesday February 2, 2021	0.14	3.60	3.41	2.18	5.43	4.97
Wednesday February 3, 2021	0.76	5.05	5.97	3.37	7.84	16.48
Thursday February 4, 2021	2.94	9.33	13.89	8.43	17.01	26.28
Friday February 5, 2021	3.10	9.19	13.00	9.40	22.62	33.25

3.1 Monday, February 1, 2021

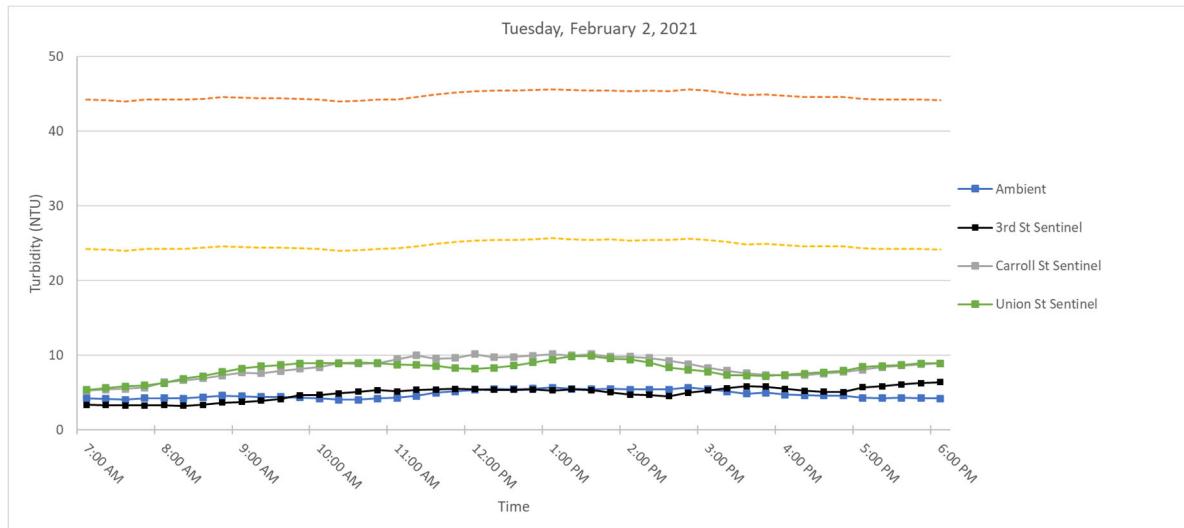
Figure 2. Hourly rolling average turbidity readings on Monday, February 1, 2021 from 7 AM to 6 PM.



Note: On February 01, 2021 at 7:15 AM a spike in turbidity at the Ambient Buoy of 13.16 NTU was eliminated as an outlier in accordance with the outlier analysis defined in Section 2 and the WQMP.

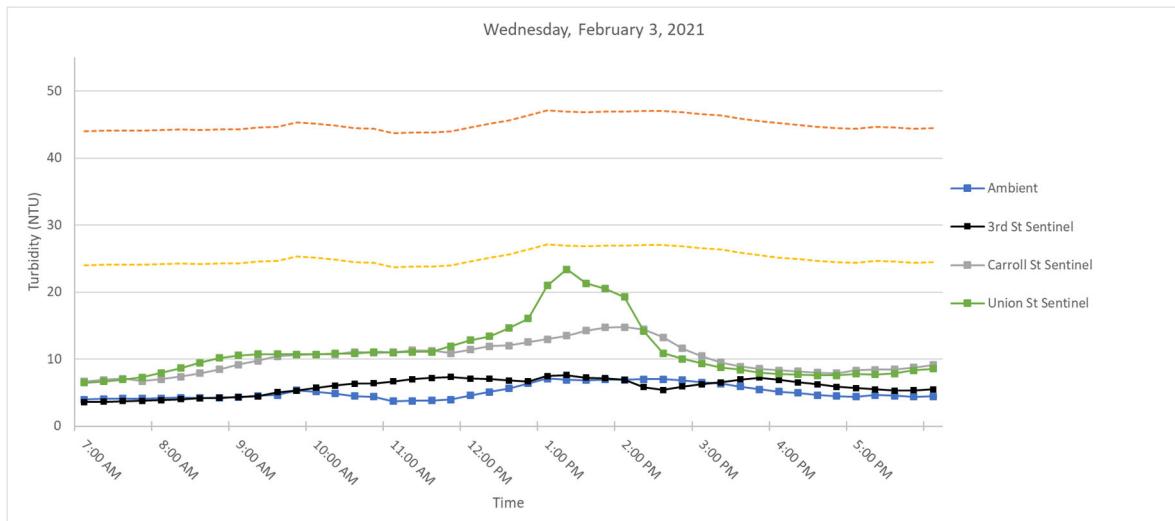
3.2 Tuesday, February 2, 2021

Figure 3. Hourly rolling average turbidity readings on Tuesday, February 2, 2021 from 7 AM to 6 PM.



3.3 Wednesday, February 3, 2021

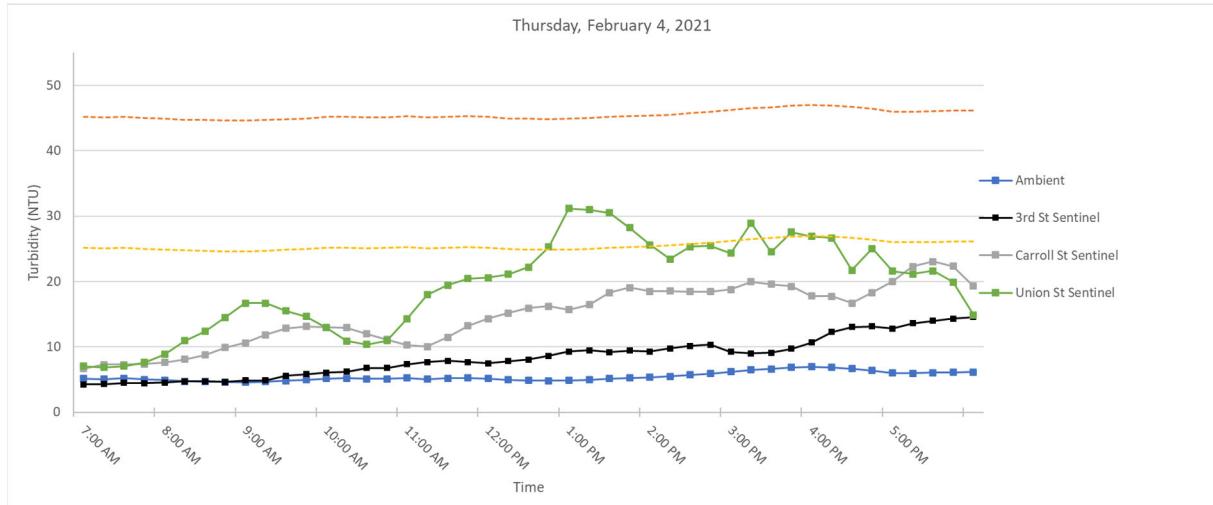
Figure 4. Hourly rolling average turbidity readings on Wednesday, February 3, 2021 from 7 AM to 6 PM.



Note: On February 03, 2021 at 2:15 PM a spike in turbidity at the Union Street Buoy of 32.05 NTU was eliminated as an outlier in accordance with the outlier analysis defined in Section 2 and the WQMP.

1.4 Thursday, February 4, 2021

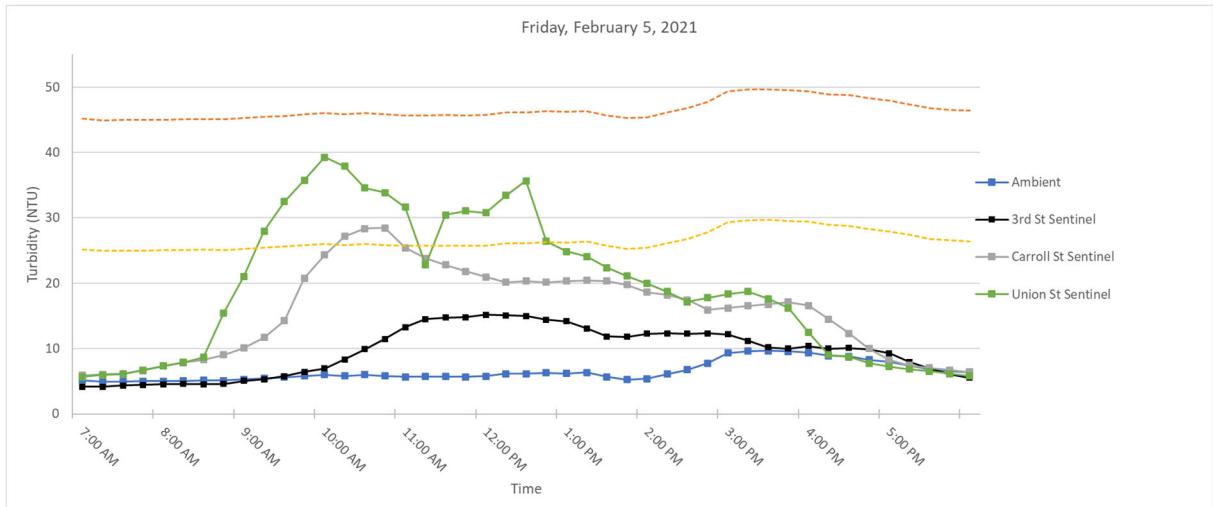
Figure 5. Hourly rolling average turbidity readings on Thursday, February 4, 2021 from 7 AM to 6 PM.



Note: On February 04, 2021 at 1:00 PM a spike in turbidity at the Carroll Street Buoy of 32.97 NTU, at 2:00 PM a spike in turbidity at the 3rd Street Buoy of 18.32 NTU, and at 5:00 PM a spike in turbidity at the Union Street Buoy of 86.62 NTU were eliminated as an outlier in accordance with the outlier analysis defined in Section 2 and the WQMP.

1.5 Friday, February 5, 2021

Figure 6. Hourly rolling average turbidity readings on Friday, February 5, 2021 from 7 AM to 6 PM.



Note: On February 05, 2021 at 1:15 PM a spike in turbidity at the Ambient Buoy of 14.00 NTU and at 3:15 PM a spike in turbidity at the Union Street Buoy of 18.32 NTU, and at 5:00 PM a spike in turbidity at the Union Street Buoy of 52.05 NTU were eliminated as an outlier in accordance with the outlier analysis defined in Section 2 and the WQMP.

SUMMARY OF VISUAL OBSERVATIONS

During the Phase I dredging with the environmental clamshell bucket some sheen was observed during dredging. This sheen was localized in the area of dredging and did not migrate outside of RTA1.

APPENDIX A

Turbidity Data Tables

Monday, February 1, 2021

Time	Turbidity (NTU)				Rolling Average Turbidity (NTU)				Difference (NTU)		
	Ambient	3rd Street	Carroll Street	Union Street	Ambient	3rd Street	Carroll Street	Union Street	3rd St - Ambient	Carroll St - Ambient	Union St - Ambient
7:00:00	6.33	3.76	7.15	8.11	6.20	3.61	7.03	7.16	-2.59	0.83	0.97
7:15:00	--	4.24	7.65	9.06	6.37	3.75	7.21	7.64	-2.62	0.84	1.27
7:30:00	6.04	4.31	8.02	9.6	6.35	3.91	7.45	8.19	-2.44	1.11	1.84
7:45:00	11.48	4.46	8.44	9.88	7.66	4.10	7.73	8.80	-3.56	0.07	1.14
8:00:00	6.65	4.61	8.3	10.15	7.63	4.28	7.91	9.36	-3.35	0.29	1.74
8:15:00	6.69	4.87	8.64	10.27	7.72	4.50	8.21	9.79	-3.22	0.49	2.08
8:30:00	5.65	5.1	8.72	9.82	7.30	4.67	8.42	9.94	-2.63	1.12	2.64
8:45:00	5.44	5.25	8.87	10.65	7.18	4.86	8.59	10.15	-2.32	1.41	2.97
9:00:00	6.36	5.28	9.11	10.29	6.16	5.02	8.73	10.24	-1.14	2.57	4.08
9:15:00	6.46	5.85	8.8	10.78	6.12	5.27	8.83	10.36	-0.85	2.71	4.24
9:30:00	7.28	5.74	9.3	10.75	6.24	5.44	8.96	10.46	-0.79	2.72	4.22
9:45:00	6.72	6.04	9.95	10.68	6.45	5.63	9.21	10.63	-0.82	2.75	4.18
10:00:00	6.47	5.95	9.28	11	6.66	5.77	9.29	10.70	-0.89	2.63	4.04
10:15:00	5.88	5.59	9.57	11.67	6.56	5.83	9.38	10.98	-0.73	2.82	4.41
10:30:00	6.24	5.91	9.66	12.81	6.52	5.85	9.55	11.38	-0.67	3.03	4.86
10:45:00	6.04	5.7	12.81	11.84	6.27	5.84	10.25	11.60	-0.43	3.98	5.33
11:00:00	6.72	5.65	11.57	14.78	6.27	5.76	10.58	12.42	-0.51	4.31	6.15
11:15:00	6.71	5.83	11.37	12.91	6.32	5.74	11.00	12.80	-0.58	4.68	6.48
11:30:00	6.02	6.33	11.43	13.2	6.35	5.88	11.37	13.11	-0.46	5.02	6.76
11:45:00	5.76	6.69	11.68	12.97	6.25	6.04	11.77	13.14	-0.21	5.52	6.89
12:00:00	7.03	6.62	12.02	11.71	6.45	6.22	11.61	13.11	-0.22	5.17	6.67
12:15:00	6.14	5.39	10.96	11.66	6.33	6.17	11.49	12.49	-0.16	5.16	6.16
12:30:00	6.33	5.07	11.52	10.31	6.26	6.02	11.52	11.97	-0.24	5.27	5.71
12:45:00	5.11	4.79	10.48	9.28	6.07	5.71	11.33	11.19	-0.36	5.26	5.11
13:00:00	6.01	4.67	10.19	9.66	6.12	5.31	11.03	10.52	-0.82	4.91	4.40
13:15:00	5.77	4.44	9.58	11.04	5.87	4.87	10.55	10.39	-1.00	4.67	4.52
13:30:00	5.66	5.46	9.29	10.55	5.78	4.89	10.21	10.17	-0.89	4.44	4.39
13:45:00	4.98	4.99	10.1	10.45	5.51	4.87	9.93	10.20	-0.64	4.42	4.69
14:00:00	7	6.73	10.25	9.05	5.88	5.26	9.88	10.15	-0.63	4.00	4.27
14:15:00	7.16	6.55	9.46	8.66	6.11	5.63	9.74	9.95	-0.48	3.62	3.84
14:30:00	5.59	6.82	9.24	7.44	6.08	6.11	9.67	9.23	0.03	3.59	3.15
14:45:00	5.83	7.4	9.15	7.4	6.11	6.50	9.64	8.60	0.39	3.53	2.49
15:00:00	7.1	6.53	8.13	8.02	6.54	6.81	9.25	8.11	0.27	2.71	1.58
15:15:00	5.54	6.05	7.57	5.7	6.24	6.67	8.71	7.44	0.43	2.47	1.20
15:30:00	6.61	6.5	6.83	5.87	6.13	6.66	8.18	6.89	0.53	2.05	0.75
15:45:00	6.55	5.82	6.36	5.88	6.33	6.46	7.61	6.57	0.13	1.28	0.25
16:00:00	6.93	5.35	6.31	5.38	6.55	6.05	7.04	6.17	-0.50	0.49	-0.38
16:15:00	5.2	4.87	5.87	5.17	6.17	5.72	6.59	5.60	-0.45	0.42	-0.57
16:30:00	6.39	4.52	5.62	6.09	6.34	5.41	6.20	5.68	-0.92	-0.14	-0.66
16:45:00	6.7	4.11	5.97	5.9	6.35	4.93	6.03	5.68	-1.42	-0.33	-0.67
17:00:00	6.64	3.82	6.38	6.53	6.37	4.53	6.03	5.81	-1.84	-0.34	-0.56
17:15:00	6.86	3.82	5.93	5.9	6.36	4.23	5.95	5.92	-2.13	-0.40	-0.44
17:30:00	5.16	4.03	5.95	5.32	6.35	4.06	5.97	5.95	-2.29	-0.38	-0.40
17:45:00	5.98	4.24	5.85	5.55	6.27	4.00	6.02	5.84	-2.26	-0.25	-0.43
18:00:00	5.74	4.15	5.84	5.97	6.08	4.01	5.99	5.85	-2.06	-0.09	-0.22

Tuesday, February 2, 2021

Time	Turbidity (NTU)				Rolling Average Turbidity (NTU)				Difference (NTU)		
	Ambient	3rd Street	Carroll Street	Union Street	Ambient	3rd Street	Carroll Street	Union Street	3rd St - Ambient	Carroll St - Ambient	Union St - Ambient
7:00:00	4.15	3.52	5.48	5.46	4.24	3.34	5.24	5.35	-0.90	1.00	1.11
7:15:00	3.83	2.95	5.71	6.06	4.16	3.28	5.38	5.62	-0.88	1.22	1.46
7:30:00	3.58	3.39	5.71	6.21	4.01	3.27	5.49	5.81	-0.75	1.48	1.80
7:45:00	5.18	3.41	6.09	6.3	4.23	3.26	5.66	5.97	-0.97	1.43	1.74
8:00:00	4.4	3.22	8.92	7.27	4.23	3.30	6.38	6.26	-0.93	2.15	2.03
8:15:00	4.04	3.17	6.76	8.3	4.21	3.23	6.64	6.83	-0.98	2.43	2.62
8:30:00	4.59	3.46	6.96	7.93	4.36	3.33	6.89	7.20	-1.03	2.53	2.84
8:45:00	4.78	4.87	7.6	8.92	4.60	3.63	7.27	7.74	-0.97	2.67	3.15
9:00:00	4.59	3.89	8.08	8.65	4.48	3.72	7.66	8.21	-0.76	3.18	3.73
9:15:00	3.99	4.14	8.38	8.74	4.40	3.91	7.56	8.51	-0.49	3.16	4.11
9:30:00	4.02	4.25	8.23	9.2	4.39	4.12	7.85	8.69	-0.27	3.46	4.29
9:45:00	4.22	5.93	8.53	9.04	4.32	4.62	8.16	8.91	0.30	3.84	4.59
10:00:00	4.17	5.13	8.62	8.94	4.20	4.67	8.37	8.91	0.47	4.17	4.72
10:15:00	3.65	5.01	10.85	8.62	4.01	4.89	8.92	8.91	0.88	4.91	4.90
10:30:00	4.07	5.11	8.04	9.19	4.03	5.09	8.85	9.00	1.06	4.83	4.97
10:45:00	4.93	5.25	8.48	8.87	4.21	5.29	8.90	8.93	1.08	4.70	4.72
11:00:00	4.58	5.18	11.26	8.02	4.28	5.14	9.45	8.73	0.86	5.17	4.45
11:15:00	5.5	6.11	11.26	8.76	4.55	5.33	9.98	8.69	0.79	5.43	4.15
11:30:00	5.67	5.31	8.62	7.92	4.95	5.39	9.53	8.55	0.44	4.58	3.60
11:45:00	5.09	5.49	8.41	7.76	5.15	5.47	9.61	8.27	0.31	4.45	3.11
12:00:00	5.84	5	11.2	8.32	5.34	5.42	10.15	8.16	0.08	4.81	2.82
12:15:00	5.21	4.92	9	8.8	5.46	5.37	9.70	8.31	-0.10	4.24	2.85
12:30:00	5.41	6.01	11.47	10.28	5.44	5.35	9.74	8.62	-0.10	4.30	3.17
12:45:00	6.11	5.56	9.47	9.9	5.53	5.40	9.91	9.01	-0.14	4.38	3.48
13:00:00	5.67	4.76	9.54	9.77	5.65	5.25	10.14	9.41	-0.40	4.49	3.77
13:15:00	5.02	5.85	10.27	10.52	5.48	5.42	9.95	9.85	-0.06	4.47	4.37
13:30:00	4.89	4.43	9.86	8.84	5.42	5.32	10.12	9.86	-0.10	4.70	4.44
13:45:00	5.7	4.5	9.9	8.74	5.48	5.02	9.81	9.55	-0.46	4.33	4.08
14:00:00	5.62	4.09	9.43	9.25	5.38	4.73	9.80	9.42	-0.65	4.42	4.04
14:15:00	5.75	4.47	8.64	7.5	5.40	4.67	9.62	8.97	-0.73	4.22	3.57
14:30:00	4.95	5.02	8.34	7.42	5.38	4.50	9.23	8.35	-0.88	3.85	2.97
14:45:00	6.11	6.73	7.69	7.3	5.63	4.96	8.80	8.04	-0.66	3.17	2.42
15:00:00	4.69	5.97	7.46	7.43	5.42	5.26	8.31	7.78	-0.17	2.89	2.36
15:15:00	4.15	5.64	7.34	6.93	5.13	5.57	7.89	7.32	0.44	2.76	2.19
15:30:00	4.28	5.63	7.1	7.28	4.84	5.80	7.59	7.27	0.96	2.75	2.44
15:45:00	5.49	5	7.12	6.97	4.94	5.79	7.34	7.18	0.85	2.40	2.24
16:00:00	4.96	5.14	7.42	8.1	4.71	5.48	7.29	7.34	0.76	2.57	2.63
16:15:00	4.13	4.75	7.56	8.3	4.60	5.23	7.31	7.52	0.63	2.71	2.91
16:30:00	4.08	5.01	8.36	7.79	4.59	5.11	7.51	7.69	0.52	2.92	3.10
16:45:00	4.3	5.29	8.23	8.49	4.59	5.04	7.74	7.93	0.45	3.15	3.34
17:00:00	3.98	8.35	8.6	9.41	4.29	5.71	8.03	8.42	1.42	3.74	4.13
17:15:00	4.64	5.68	9.08	8.69	4.23	5.82	8.37	8.54	1.59	4.14	4.31
17:30:00	4.34	6.04	8.65	9.05	4.27	6.07	8.58	8.69	1.81	4.32	4.42
17:45:00	3.9	5.81	9.27	8.87	4.23	6.23	8.77	8.90	2.00	4.53	4.67
18:00:00	4.02	5.92	8.86	8.45	4.18	6.36	8.89	8.89	2.18	4.72	4.72

Wednesday, February 3, 2021

Time	Turbidity (NTU)				Rolling Average Turbidity (NTU)				Difference (NTU)		
	Ambient	3rd Street	Carroll Street	Union Street	Ambient	3rd Street	Carroll Street	Union Street	3rd St - Ambient	Carroll St - Ambient	Union St - Ambient
7:00:00	4.17	3.55	6.27	6.85	3.97	3.59	6.66	6.48	-0.38	2.69	2.51
7:15:00	4.28	3.85	6.77	7.06	4.04	3.64	6.89	6.68	-0.40	2.85	2.64
7:30:00	4.23	4	7.16	7.43	4.12	3.73	7.11	6.96	-0.38	3.00	2.84
7:45:00	4.02	3.79	7.19	8.64	4.10	3.78	6.69	7.30	-0.33	2.59	3.19
8:00:00	4.12	4.21	7.49	9.8	4.16	3.88	6.98	7.96	-0.28	2.81	3.79
8:15:00	4.56	4.1	8.35	10.4	4.24	3.99	7.39	8.67	-0.25	3.15	4.42
8:30:00	4.05	4.67	9.2	11.07	4.20	4.15	7.88	9.47	-0.04	3.68	5.27
8:45:00	4.43	4.15	9.98	10.92	4.24	4.18	8.44	10.17	-0.05	4.21	5.93
9:00:00	--	4.57	10.86	10.49	4.29	4.34	9.18	10.54	0.05	4.89	6.25
9:15:00	5.03	4.61	10.33	10.89	4.52	4.42	9.74	10.75	-0.10	5.23	6.24
9:30:00	4.92	7.15	11.63	10.24	4.61	5.03	10.40	10.72	0.42	5.79	6.11
9:45:00	7.04	5.98	10.4	10.98	5.36	5.29	10.64	10.70	-0.06	5.29	5.35
10:00:00	3.65	6.25	10.26	10.79	5.16	5.71	10.70	10.68	0.55	5.54	5.52
10:15:00	3.56	6.23	10.75	11.19	4.84	6.04	10.67	10.82	1.20	5.83	5.98
10:30:00	3.25	5.96	12.42	11.05	4.48	6.31	11.09	10.85	1.83	6.61	6.37
10:45:00	4.4	7.51	10.7	11.42	4.38	6.39	10.91	11.09	2.01	6.53	6.71
11:00:00	3.86	7.34	11.05	10.48	3.74	6.66	11.04	10.99	2.91	7.29	7.24
11:15:00	3.84	7.83	11.52	11.23	3.78	6.97	11.29	11.07	3.19	7.51	7.29
11:30:00	3.76	7.2	10.62	11.08	3.82	7.17	11.26	11.05	3.35	7.44	7.23
11:45:00	3.88	6.71	10.6	15.38	3.95	7.32	10.90	11.92	3.37	6.95	7.97
12:00:00	7.45	6.35	13.34	15.87	4.56	7.09	11.43	12.81	2.53	6.87	8.25
12:15:00	6.5	7.1	13.58	--	5.09	7.04	11.93	13.39	1.95	6.85	8.30
12:30:00	6.55	6.7	12.04	16.16	5.63	6.81	12.04	14.62	1.18	6.41	8.99
12:45:00	7.43	6.57	13.13	16.74	6.36	6.69	12.54	16.04	0.32	6.18	9.68
13:00:00	7.61	10.53	12.84	35.09	7.11	7.45	12.99	20.97	0.34	5.88	13.86
13:15:00	6.52	7.09	15.74	25.63	6.92	7.60	13.47	23.41	0.68	6.54	16.48
13:30:00	6.14	5.25	17.4	12.99	6.85	7.23	14.23	21.32	0.38	7.38	14.47
13:45:00	7.11	6.16	14.52	12.04	6.96	7.12	14.73	20.50	0.16	7.76	13.54
14:00:00	7.17	5.44	13.27	10.7	6.91	6.89	14.75	19.29	-0.02	7.84	12.38
14:15:00	8	5.23	11.24	9.47	6.99	5.83	14.43	14.17	-1.15	7.45	7.18
14:30:00	6.51	4.92	9.84	9.14	6.99	5.40	13.25	10.87	-1.59	6.27	3.88
14:45:00	5.43	7.73	9.11	8.89	6.84	5.90	11.60	10.05	-0.95	4.75	3.20
15:00:00	5.59	7.96	8.7	8.53	6.54	6.26	10.43	9.35	-0.28	3.89	2.81
15:15:00	6.1	6.87	8.7	7.69	6.33	6.54	9.52	8.74	0.22	3.19	2.42
15:30:00	--	7.17	8.17	7.93	5.91	6.93	8.90	8.44	1.02	3.00	2.53
15:45:00	4.82	6.51	8.04	6.76	5.49	7.25	8.54	7.96	1.76	3.06	2.48
16:00:00	4.16	5.99	8.12	8.04	5.17	6.90	8.35	7.79	1.73	3.18	2.62
16:15:00	4.77	5.96	7.84	8	4.96	6.50	8.17	7.68	1.54	3.21	2.72
16:30:00	4.68	5.57	7.7	7.16	4.61	6.24	7.97	7.58	1.63	3.37	2.97
16:45:00	4.04	5.32	7.78	7.91	4.49	5.87	7.90	7.57	1.38	3.40	3.08
17:00:00	4.21	5.4	10.2	7.99	4.37	5.65	8.33	7.82	1.28	3.96	3.45
17:15:00	5.47	5.06	8.56	7.46	4.63	5.46	8.42	7.70	0.83	3.78	3.07
17:30:00	4.27	5.1	8.17	8.62	4.53	5.29	8.48	7.83	0.76	3.95	3.29
17:45:00	3.99	5.76	9.08	9.59	4.40	5.33	8.76	8.31	0.93	4.36	3.92
18:00:00	4.34	6.15	9.59	9.12	4.46	5.49	9.12	8.56	1.04	4.66	4.10

Thursday, February 4, 2021

Time	Turbidity (NTU)				Rolling Average Turbidity (NTU)				Difference (NTU)		
	Ambient	3rd Street	Carroll Street	Union Street	Ambient	3rd Street	Carroll Street	Union Street	3rd St - Ambient	Carroll St - Ambient	Union St - Ambient
7:00:00	5.16	3.99	6.67	7.37	5.18	4.25	6.68	7.04	-0.93	1.50	1.86
7:15:00	4.81	4.61	9.8	7.12	5.09	4.30	7.31	6.87	-0.79	2.22	1.78
7:30:00	5.1	5.27	6.79	7.42	5.21	4.51	7.30	7.07	-0.70	2.09	1.86
7:45:00	5	4.27	6.99	9.53	5.03	4.47	7.38	7.64	-0.56	2.35	2.61
8:00:00	4.48	4.72	7.9	13.01	4.91	4.57	7.63	8.89	-0.34	2.72	3.98
8:15:00	4.43	4.95	9.18	17.67	4.76	4.76	8.13	10.95	0.00	3.37	6.19
8:30:00	4.41	4.41	12.96	14.31	4.68	4.72	8.76	12.39	0.04	4.08	7.70
8:45:00	4.92	4.82	12.45	18.03	4.65	4.63	9.90	14.51	-0.01	5.25	9.86
9:00:00	4.74	5.58	10.54	20.55	4.60	4.90	10.61	16.71	0.30	6.01	12.12
9:15:00	5.01	4.76	14.16	13.04	4.70	4.90	11.86	16.72	0.20	7.16	12.02
9:30:00	5.15	8.47	14.14	11.71	4.85	5.61	12.85	15.53	0.76	8.00	10.68
9:45:00	4.99	5.53	14.51	10.09	4.96	5.83	13.16	14.68	0.87	8.20	9.72
10:00:00	5.99	5.91	11.65	9.35	5.18	6.05	13.00	12.95	0.87	7.82	7.77
10:15:00	4.83	6.36	10.31	10.33	5.19	6.21	12.95	10.90	1.01	7.76	5.71
10:30:00	4.64	7.67	9.36	10.39	5.12	6.79	11.99	10.37	1.67	6.87	5.25
10:45:00	5.24	8.4	9.83	14.6	5.14	6.77	11.13	10.95	1.64	5.99	5.81
11:00:00	5.68	8.41	10.4	27.09	5.28	7.35	10.31	14.35	2.07	5.03	9.08
11:15:00	5.03	7.52	10.33	27.54	5.08	7.67	10.05	17.99	2.59	4.96	12.91
11:30:00	5.49	7.25	17.41	17.64	5.22	7.85	11.47	19.45	2.63	6.25	14.24
11:45:00	4.96	6.78	18.23	15.35	5.28	7.67	13.24	20.44	2.39	7.96	15.16
12:00:00	4.8	7.57	15.36	15.25	5.19	7.51	14.35	20.57	2.31	9.15	15.38
12:15:00	4.5	10.08	14.53	29.88	4.96	7.84	15.17	21.13	2.88	10.22	16.18
12:30:00	4.67	8.75	14.15	32.96	4.88	8.09	15.94	22.22	3.20	11.05	17.33
12:45:00	5.28	10.03	18.82	32.91	4.84	8.64	16.22	25.27	3.80	11.38	20.43
13:00:00	5.15	9.98	--	44.8	4.88	9.28	15.72	31.16	4.40	10.84	26.28
13:15:00	5.33	8.63	18.39	14.42	4.99	9.49	16.47	30.99	4.51	11.49	26.01
13:30:00	5.47	8.63	21.85	27.38	5.18	9.20	18.30	30.49	4.02	13.12	25.31
13:45:00	5.2	10.04	17.18	21.62	5.29	9.46	19.06	28.23	4.18	13.77	22.94
14:00:00	5.59	--	16.56	19.92	5.35	9.32	18.50	25.63	3.97	13.15	20.28
14:15:00	6.02	11.87	18.83	33.96	5.52	9.79	18.56	23.46	4.27	13.04	17.94
14:30:00	6.37	10.11	17.84	23.89	5.73	10.16	18.45	25.35	4.43	12.72	19.62
14:45:00	6.41	9.42	21.95	28.02	5.92	10.36	18.47	25.48	4.44	12.55	19.56
15:00:00	6.78	5.57	18.76	15.9	6.23	9.24	18.79	24.34	3.01	12.55	18.10
15:15:00	7.02	8.1	22.5	43.02	6.52	9.01	19.98	28.96	2.49	13.46	22.44
15:30:00	6.68	12.45	17.02	11.94	6.65	9.13	19.61	24.55	2.48	12.96	17.90
15:45:00	7.49	13.17	16.06	38.95	6.88	9.74	19.26	27.57	2.87	12.38	20.69
16:00:00	6.85	14.1	14.61	24.75	6.96	10.68	17.79	26.91	3.71	10.83	19.95
16:15:00	6.33	13.56	18.44	14.69	6.87	12.28	17.73	26.67	5.40	10.85	19.80
16:30:00	6.15	11.89	17.37	18.27	6.70	13.03	16.70	21.72	6.33	10.00	15.02
16:45:00	5.3	12.99	25.14	28.72	6.42	13.14	18.32	25.08	6.72	11.90	18.65
17:00:00	5.37	11.54	24.67	--	6.00	12.82	20.05	21.61	6.82	14.05	15.61
17:15:00	6.76	18.14	25.99	22.95	5.98	13.62	22.32	21.16	7.64	16.34	15.18
17:30:00	6.74	15.42	22.19	16.61	6.06	14.00	23.07	21.64	7.93	17.01	15.57
17:45:00	6.49	13.67	13.71	11.43	6.13	14.35	22.34	19.93	8.22	16.21	13.80
18:00:00	5.39	14.14	10.01	8.66	6.15	14.58	19.31	14.91	8.43	13.16	8.76

Friday, February 5, 2021

Time	Turbidity (NTU)				Rolling Average Turbidity (NTU)				Difference (NTU)		
	Ambient	3rd Street	Carroll Street	Union Street	Ambient	3rd Street	Carroll Street	Union Street	3rd St - Ambient	Carroll St - Ambient	Union St - Ambient
7:00:00	5.11	4.34	6.04	6.06	5.15	4.15	5.94	5.70	-0.99	0.79	0.55
7:15:00	4.67	4.4	6.23	6.22	4.93	4.16	6.06	5.96	-0.77	1.13	1.03
7:30:00	5.16	4.75	6.25	6.24	4.96	4.34	6.17	6.10	-0.63	1.20	1.13
7:45:00	5.14	4.37	8.43	9.32	5.01	4.44	6.62	6.70	-0.56	1.61	1.70
8:00:00	5.09	4.74	9.79	8.92	5.03	4.52	7.35	7.35	-0.51	2.31	2.32
8:15:00	5.22	4.62	8.6	8.78	5.06	4.58	7.86	7.90	-0.48	2.80	2.84
8:30:00	5.06	4.29	8.45	10.05	5.13	4.55	8.30	8.66	-0.58	3.17	3.53
8:45:00	4.92	4.93	9.87	40.19	5.09	4.59	9.03	15.45	-0.50	3.94	10.37
9:00:00	6.17	6.75	13.75	37.09	5.29	5.07	10.09	21.01	-0.23	4.80	15.71
9:15:00	5.84	5.84	17.91	43.82	5.44	5.29	11.72	27.99	-0.16	6.27	22.54
9:30:00	6.05	6.96	21.28	31.4	5.61	5.75	14.25	32.51	0.15	8.64	26.90
9:45:00	6.07	7.72	41.04	26.41	5.81	6.44	20.77	35.78	0.63	14.96	29.97
10:00:00	5.93	7.63	27.55	57.58	6.01	6.98	24.31	39.26	0.97	18.29	33.25
10:15:00	5.13	13.51	28.17	30.36	5.80	8.33	27.19	37.91	2.53	21.39	32.11
10:30:00	6.83	13.69	23.88	27.12	6.00	9.90	28.38	34.57	3.90	22.38	28.57
10:45:00	5.18	14.77	21.6	27.93	5.83	11.46	28.45	33.88	5.64	22.62	28.05
11:00:00	5.38	16.83	25.93	15.1	5.69	13.29	25.43	31.62	7.60	19.74	25.93
11:15:00	5.98	13.81	19.47	13.47	5.70	14.52	23.81	22.80	8.82	18.11	17.10
11:30:00	5.33	14.69	23.15	68.59	5.74	14.76	22.81	30.44	9.02	17.07	24.70
11:45:00	6.54	13.94	19	30.16	5.68	14.81	21.83	31.05	9.13	16.15	25.37
12:00:00	5.56	16.51	17.32	26.56	5.76	15.16	20.97	30.78	9.40	15.22	25.02
12:15:00	7.24	16.45	21.79	28.52	6.13	15.08	20.15	33.46	8.95	14.02	27.33
12:30:00	6.04	13.32	20.35	24.54	6.14	14.98	20.32	35.67	8.84	14.18	29.53
12:45:00	6.11	11.85	22.39	22.33	6.30	14.41	20.17	26.42	8.12	13.87	20.12
13:00:00	6.03	12.83	19.97	22.24	6.20	14.19	20.36	24.84	8.00	14.17	18.64
13:15:00	--	10.85	17.64	22.73	6.36	13.06	20.43	24.07	6.71	14.07	17.72
13:30:00	4.56	10.32	21.42	20.01	5.69	11.83	20.35	22.37	6.15	14.67	16.69
13:45:00	4.38	13.1	17.51	18.17	5.27	11.79	19.79	21.10	6.52	14.52	15.83
14:00:00	6.67	14.15	16.58	16.77	5.41	12.25	18.62	19.98	6.84	13.21	14.57
14:15:00	8.87	13.11	17.98	15.92	6.12	12.31	18.23	18.72	6.19	12.11	12.60
14:30:00	9.32	10.66	13.65	15.02	6.76	12.27	17.43	17.18	5.51	10.67	10.42
14:45:00	9.68	10.46	14	23.08	7.78	12.30	15.94	17.79	4.51	8.16	10.01
15:00:00	12.1	12.56	18.75	20.96	9.33	12.19	16.19	18.35	2.86	6.86	9.02
15:15:00	8.06	9.05	18.36	--	9.61	11.17	16.55	18.75	1.56	6.94	9.14
15:30:00	9.24	8.21	19.07	11.49	9.68	10.19	16.77	17.64	0.51	7.09	7.96
15:45:00	8.74	9.64	15.48	9.34	9.56	9.98	17.13	16.22	0.42	7.57	6.65
16:00:00	8.82	12.36	11.36	8.23	9.39	10.36	16.60	12.51	0.97	7.21	3.11
16:15:00	9.73	10.6	8.33	7.11	8.92	9.97	14.52	9.04	1.05	5.60	0.12
16:30:00	7.52	9.54	7.47	7.29	8.81	10.07	12.34	8.69	1.26	3.53	-0.12
16:45:00	6.67	7.45	7.25	6.93	8.30	9.92	9.98	7.78	1.62	1.68	-0.52
17:00:00	6.97	6.37	6.81	6.66	7.94	9.26	8.24	7.24	1.32	0.30	-0.70
17:15:00	6.18	5.88	7.23	6.4	7.41	7.97	7.42	6.88	0.55	0.00	-0.54
17:30:00	6.65	5.29	6.45	5.48	6.80	6.91	7.04	6.55	0.11	0.24	-0.25
17:45:00	6.23	5.28	5.88	5.29	6.54	6.05	6.72	6.15	-0.49	0.18	-0.39
18:00:00	5.94	4.74	5.54	5.27	6.39	5.51	6.38	5.82	-0.88	-0.01	-0.57