

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

PERIOD: March 8th to March 12th, 2021

Date of Report: March 10, 2021

Report Contents

- Scope of Monitoring
- Report of Exceedances
- Turbidity Buoy Data
- Summary of Visual Observations

Prepared by

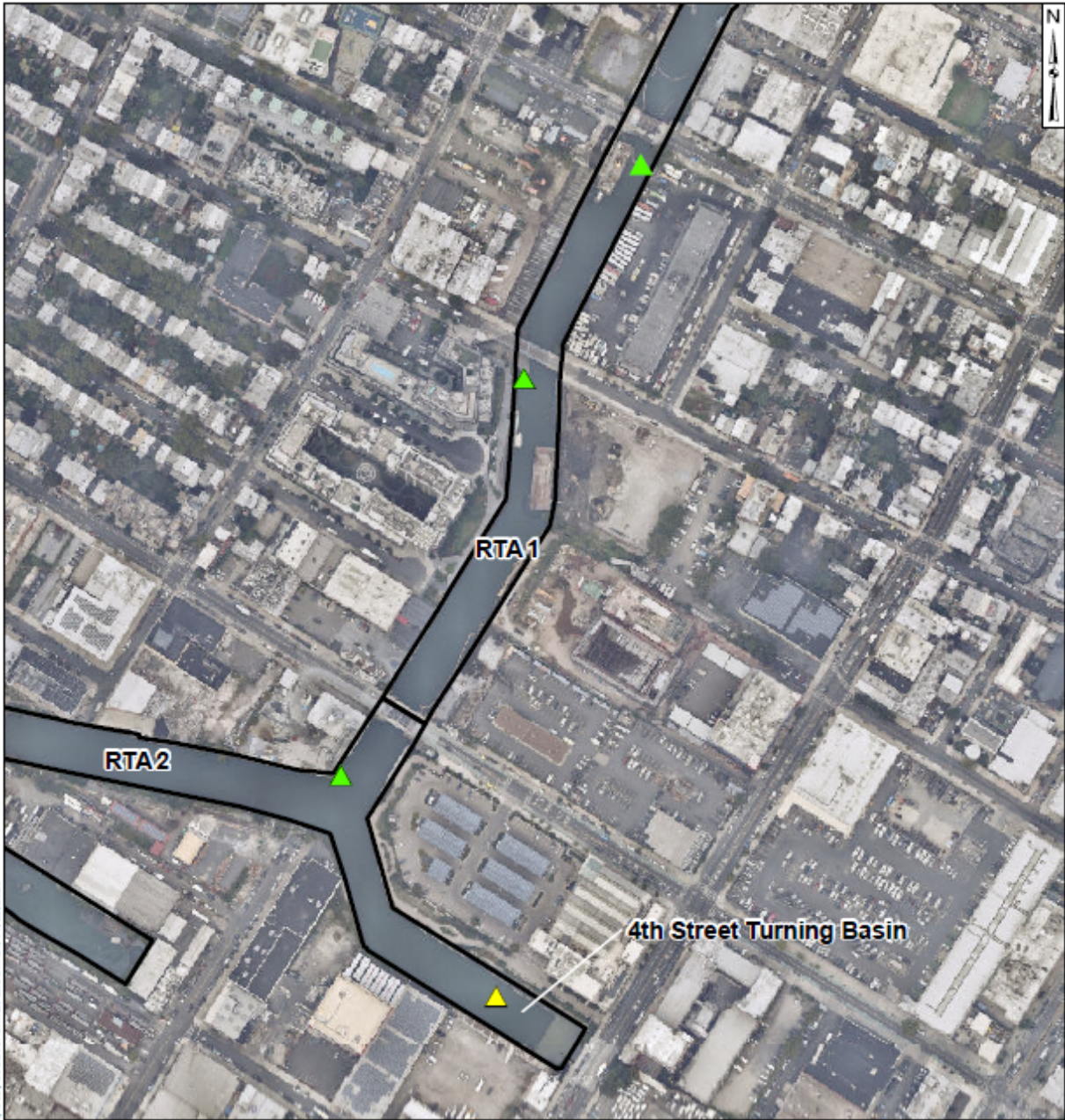
B&B Engineers & Geologists 
of new york, p.c.

an affiliate of Geosyntec Consultants

1255 Roberts Blvd, Suite 200
Kennesaw, GA 30144
Project Number JR0289A

1. SCOPE OF MONITORING

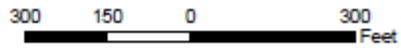
The following report summarizes water quality monitoring data collected during the week of March 8, 2021. In accordance with the Water Quality Monitoring Plan for In-waterway Construction Activities (WQMP) three turbidity buoys were deployed to monitor turbidity at the start of dredging between Carroll 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 March 8. 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.



\\msrserver\Gowanus-PR-A\03_GIS\mxd\Canal_Wide\Turbidity Buoy Locations.mxd; aka\mrcs; 11/20/2020

Legend

- ▲ Ambient Buoy
- ▲ Sentinel Buoy
- RTA Boundary



Turbidity Buoy Locations

Gowanus Canal, Brooklyn, NY

B&B Engineers & Geologists
of new york, p.c.
an affiliate of Geosyntec Consultants

Kennesaw, GA

February 2021

Figure

1

2. REPORT OF EXCEEDANCES

No exceedances of the numerical action criterion were observed during the reporting period. Exceedances of the numerical trigger criterion were observed at the Union Street Sentinel Buoy on March 9, 10, and 12. 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.

On March 9th, exceedances to the numerical trigger criterion were observed at the Union Street Sentinel Buoy from 11:45 AM to 12:30 PM. On March 10th, an exceedance to the numerical trigger criterion was observed at the Union Street Sentinel Buoy from 1:00 PM to 1:15 PM. On March 12th an exceedance to the numerical trigger criterion was observed at the Union Street Sentinel Buoy from 2:45 PM to 3:00 PM. Exceedances to the trigger criterion were a result of sediment resuspension during mini hopper changeouts in shallow water.

3. TURBIDITY BUOY DATA

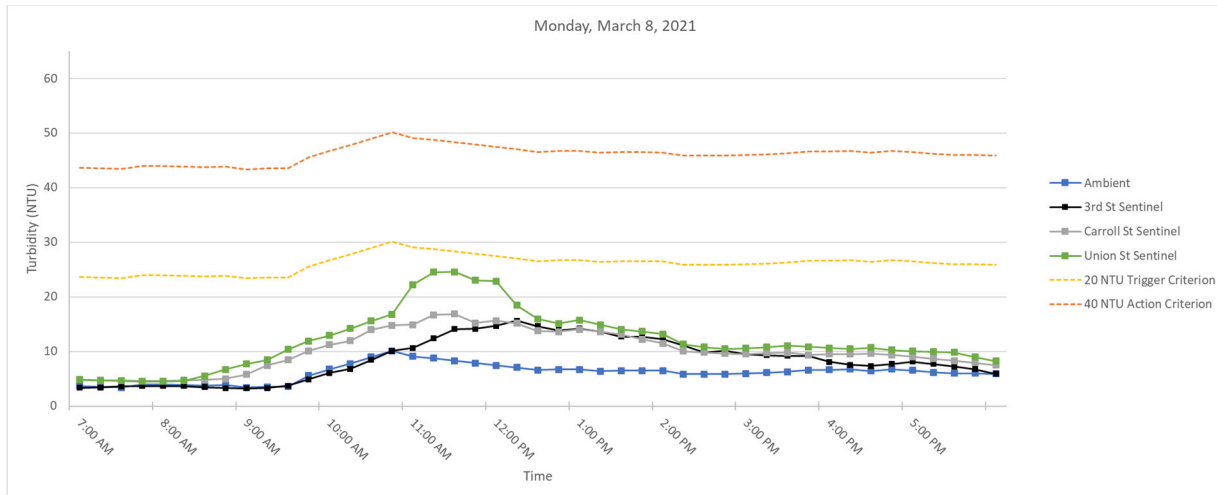
The following section provides turbidity data for the sentinel and ambient turbidity buoys from 7 AM to 6 PM from March 8 to March 12, 2021. An exceedance of the numerical trigger criterion was observed on March 9th, 10th and 12th at the Union Street Sentinel Buoy. Section 2.1 contains further information on these exceedances. **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 March 8, 2021	2.47	4.04	5.95	8.57	8.57	16.28
Tuesday March 9, 2021	3.75	5.16	7.66	12.93	15.28	27.35
Wednesday March 10, 2021	2.85	6.10	9.41	7.71	10.44	21.49
Thursday March 11, 2021	3.78	6.85	10.09	7.76	12.11	18.61
Friday March 12, 2021	3.43	5.86	8.34	10.46	13.33	20.67

3.1 Monday, March 8, 2021

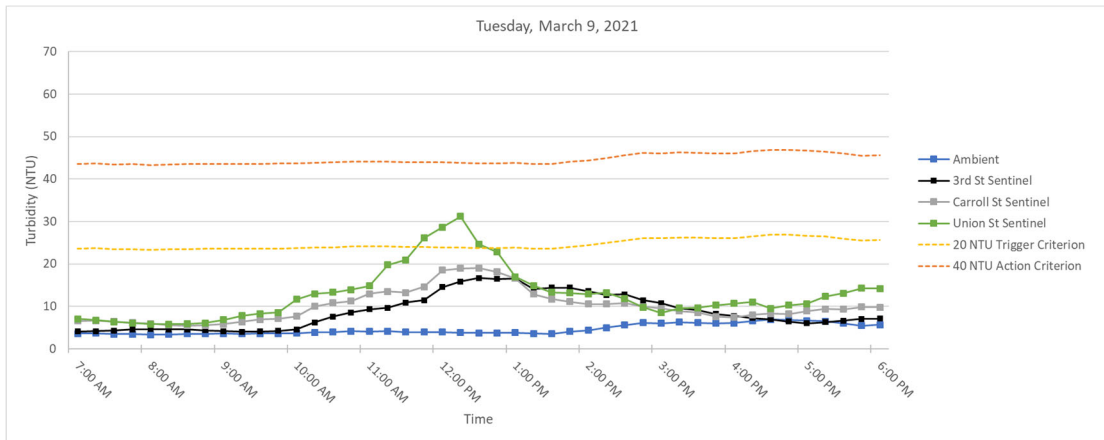
Figure 2. Hourly rolling average turbidity readings on Monday, March 8, 2021 from 7 AM to 6 PM.



Note: On March 8, 2021 three spikes in NTU at the Ambient, Sentinel Carroll Street, and Sentinel Union Street Buoys were eliminated as outliers in accordance with the outlier analysis defined in Section 2 and the WQMP. At 07:15 AM a spike in turbidity of 7.24 NTU was removed at the Ambient Buoy. At 10:30 AM a spike of 42.45 NTU was removed at the Union Street Buoy. At 5:00 PM a spike of 28.8 NTU was removed from the Carroll Street Buoy.

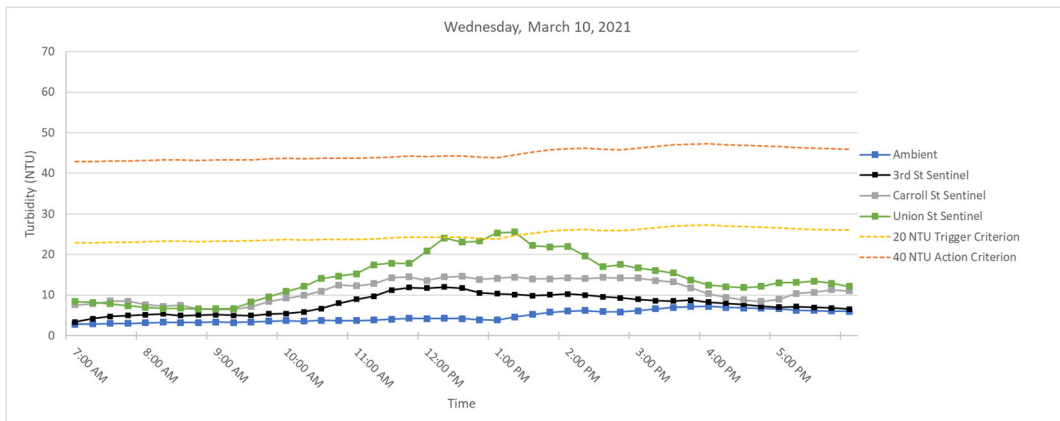
3.2 Tuesday, March 9, 2021

Figure 3. Hourly rolling average turbidity readings on Tuesday, March 9, 2021 from 7 AM to 6 PM.



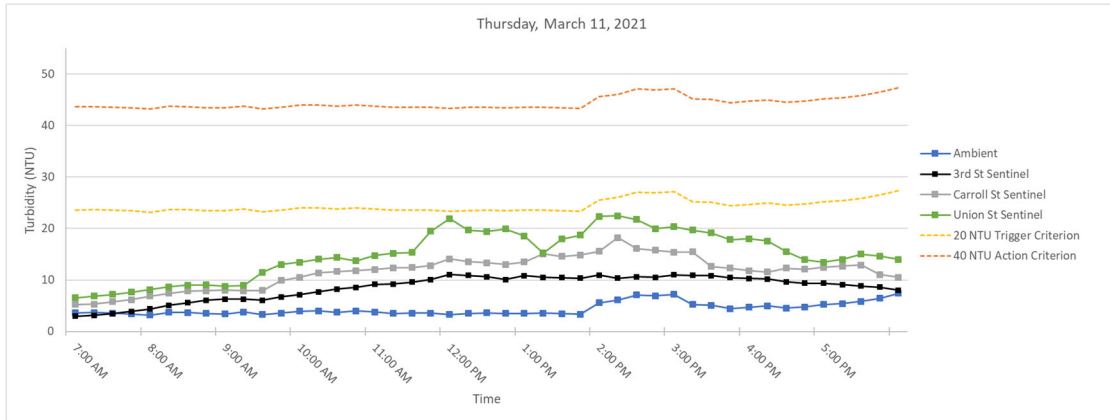
3.3 Wednesday, March 10, 2021

Figure 4. Hourly rolling average turbidity readings on Wednesday, March 10, 2021 from 7 AM to 6 PM.



3.4 Thursday, March 11, 2021

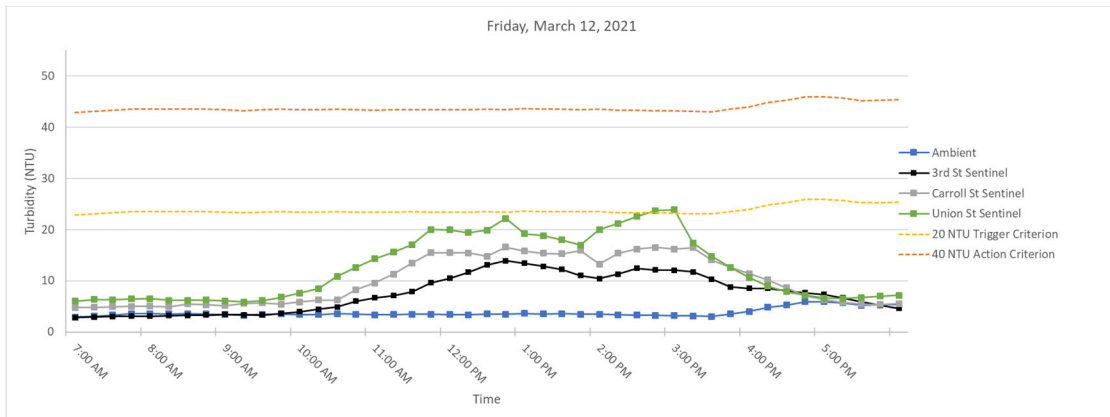
Figure 5. Hourly rolling average turbidity readings on Thursday, March 11, 2021 from 7 AM to 6 PM.



Note: On March 11, 2021 three spikes in NTU at the Ambient and Sentinel Union Street Buoys were eliminated as outliers in accordance with the outlier analysis defined in Section 2 and the WQMP. At 01:15 PM a spike in turbidity of 58.88 NTU was removed at the Sentinel Union Street Buoy. At 02:15 PM a spike of 4.47 NTU was removed at the Ambient Buoy. At 5:15 PM a spike of 14.66 NTU was removed from the Ambient Buoy.

3.5 Friday, March 12, 2021

Figure 6. Hourly rolling average turbidity readings on Friday, March 12, 2021 from 7 AM to 6 PM.



SUMMARY OF VISUAL OBSERVATIONS

On March 10th, during the Phase I dredging with the environmental clamshell bucket sheen and brown floating liquid were observed during dredging. This sheen was localized in the area of dredging and did not migrate south of the Union Street Bridge. Containment booms were deployed until the sheen dissipated.

APPENDIX A
Turbidity Data Tables

Monday, March 8, 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	3.54	3.31	4.42	4.6	3.66	3.36	4.82	4.85	-0.31	1.16	1.18
7:15:00		3.83	4.46	4.34	3.54	3.40	4.70	4.69	-0.14	1.16	1.15
7:30:00	3.22	4.35	4.76	4.36	3.39	3.60	4.68	4.59	0.21	1.29	1.20
7:45:00	5.75	3.39	4.49	4.4	3.99	3.63	4.58	4.50	-0.35	0.59	0.52
8:00:00	3.42	3.35	4.78	4.83	3.98	3.65	4.58	4.51	-0.34	0.60	0.52
8:15:00	3.15	3.32	5.13	5.18	3.89	3.65	4.72	4.62	-0.24	0.84	0.74
8:30:00	3.09	2.83	5.01	8.76	3.73	3.45	4.83	5.51	-0.28	1.11	1.78
8:45:00	3.6	3.42	5.52	10.4	3.80	3.26	4.99	6.71	-0.54	1.18	2.91
9:00:00	3.6	3.15	8.62	9.41	3.37	3.21	5.81	7.72	-0.16	2.44	4.34
9:15:00	3.97	3.63	12.97	8.58	3.48	3.27	7.45	8.47	-0.21	3.97	4.98
9:30:00	3.63	5.43	10.06	14.62	3.58	3.69	8.44	10.35	0.11	4.86	6.78
9:45:00	13.15	8.76	13.42	16.47	5.59	4.88	10.12	11.90	-0.71	4.53	6.31
10:00:00	9.34	9.39	11.06	15.41	6.74	6.07	11.23	12.90	-0.67	4.49	6.16
10:15:00	8.63	6.85	12.3	15.81	7.74	6.81	11.96	14.18	-0.93	4.22	6.43
10:30:00	10.08	11.7	23.03		8.97	8.43	13.97	15.58	-0.54	5.01	6.61
10:45:00	9.26	13.89	14.03	19.58	10.09	10.12	14.77	16.82	0.03	4.68	6.73
11:00:00	8.07	11.36	14.1	38.11	9.08	10.64	14.90	22.23	1.56	5.83	13.15
11:15:00	7.76	18.14	19.9	24.65	8.76	12.39	16.67	24.54	3.63	7.91	15.78
11:30:00	6.22	15.27	13.17	15.9	8.28	14.07	16.85	24.56	5.79	8.57	16.28
11:45:00	8.12	11.99	14.78	16.87	7.89	14.13	15.20	23.02	6.24	7.31	15.14
12:00:00	7.1	16.52	16.21	18.78	7.45	14.66	15.63	22.86	7.20	8.18	15.41
12:15:00	6.18	16.29	11.67	15.93	7.08	15.64	15.15	18.43	8.57	8.07	11.35
12:30:00	5.18	12.9	13.09	12.27	6.56	14.59	13.78	15.95	8.03	7.22	9.39
12:45:00	6.8	11.72	12.36	11.66	6.68	13.88	13.62	15.10	7.21	6.95	8.43
13:00:00	8.14	13.41	16.88	19.94	6.68	14.17	14.04	15.72	7.49	7.36	9.04
13:15:00	5.6	14.11	14.04	14.5	6.38	13.69	13.61	14.86	7.31	7.23	8.48
13:30:00	6.61	11.38	9.32	11.89	6.47	12.70	13.14	14.05	6.24	6.67	7.59
13:45:00	5.32	12.97	8.48	10.3	6.49	12.72	12.22	13.66	6.22	5.72	7.16
14:00:00	6.61	9.4	8.55	9.36	6.46	12.25	11.45	13.20	5.80	5.00	6.74
14:15:00	5.07	7.3	9.88	10.55	5.84	11.03	10.05	11.32	5.19	4.21	5.48
14:30:00	5.69	8.09	12.86	11.83	5.86	9.83	9.82	10.79	3.97	3.96	4.93
14:45:00	6.6	12.86	8.38	10.41	5.86	10.12	9.63	10.49	4.27	3.77	4.63
15:00:00	5.85	9.72	7.97	10.79	5.96	9.47	9.53	10.59	3.51	3.56	4.62
15:15:00	7.25	8.41	9.42	10.37	6.09	9.28	9.70	10.79	3.18	3.61	4.70
15:30:00	6.05	6.81	10.23	11.8	6.29	9.18	9.77	11.04	2.89	3.48	4.75
15:45:00	7.17	8.1	10.72	10.73	6.58	9.18	9.34	10.82	2.60	2.76	4.24
16:00:00	6.91	7.26	9.13	9.58	6.65	8.06	9.49	10.65	1.41	2.85	4.01
16:15:00	6.28	7.12	8.16	9.87	6.73	7.54	9.53	10.47	0.81	2.80	3.74
16:30:00	5.69	7.36	9.83	11.35	6.42	7.33	9.61	10.67	0.91	3.19	4.25
16:45:00	7.73	8.68	8.93	9.71	6.76	7.70	9.35	10.25	0.95	2.60	3.49
17:00:00	5.97	10.23		9.79	6.52	8.13	9.01	10.06	1.61	2.50	3.54
17:15:00	5.16	5.23	7.72	8.97	6.17	7.72	8.66	9.94	1.56	2.49	3.77
17:30:00	5.32	4.66	6.77	9.2	5.97	7.23	8.31	9.80	1.26	2.34	3.83
17:45:00	5.93	4.82	8.31	7.15	6.02	6.72	7.93	8.96	0.70	1.91	2.94
18:00:00	7.08	4.61	7.24	6.16	5.89	5.91	7.51	8.25	0.02	1.62	2.36

Tuesday, March 9, 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	2.94	4.37	6.87	6.36	3.57	4.07	6.53	7.03	0.51	2.97	3.46
7:15:00	3.34	4.09	6.57	6.18	3.65	4.15	6.64	6.75	0.49	2.99	3.09
7:30:00	3.33	4.61	5.69	5.36	3.41	4.30	6.39	6.32	0.89	2.98	2.91
7:45:00	3.56	5.07	5.28	5.52	3.48	4.52	6.14	6.04	1.04	2.66	2.56
8:00:00	3.37	4.81	5.23	5.66	3.31	4.59	5.93	5.82	1.28	2.62	2.51
8:15:00	3.35	4.24	5.3	6.23	3.39	4.56	5.61	5.79	1.17	2.22	2.40
8:30:00	3.89	3.88	5.8	6.67	3.50	4.52	5.46	5.89	1.02	1.96	2.39
8:45:00	3.51	3.83	6.07	6.28	3.54	4.37	5.54	6.07	0.83	2.00	2.54
9:00:00	3.63	4.08	6.6	9.35	3.55	4.17	5.80	6.84	0.62	2.25	3.29
9:15:00	3.29	4	8.02	10.48	3.53	4.01	6.36	7.80	0.47	2.82	4.27
9:30:00	3.61	4.42	7.81	8.67	3.59	4.04	6.86	8.29	0.46	3.27	4.70
9:45:00	4.04	4.56	7.05	8.08	3.62	4.18	7.11	8.57	0.56	3.49	4.96
10:00:00	3.84	5.79	8.89	21.72	3.68	4.57	7.67	11.66	0.89	3.99	7.98
10:15:00	4.62	12.24	18	15.7	3.88	6.20	9.95	12.93	2.32	6.07	9.05
10:30:00	3.46	10.87	12.2	12.36	3.91	7.58	10.79	13.31	3.66	6.88	9.39
10:45:00	4.59	9.29	9.81	11.56	4.11	8.55	11.19	13.88	4.44	7.08	9.77
11:00:00	3.94	8.19	15.73	12.68	4.09	9.28	12.93	14.80	5.19	8.84	10.71
11:15:00	3.96	7.72	11.72	46.63	4.11	9.66	13.49	19.79	5.55	9.38	15.67
11:30:00	3.7	18.26	16.53	21.49	3.93	10.87	13.20	20.94	6.94	9.27	17.01
11:45:00	3.55	13.72	19.26	38.06	3.95	11.44	14.61	26.08	7.49	10.66	22.14
12:00:00	4.38	24.63	29.28	24.39	3.91	14.50	18.50	28.65	10.60	14.60	24.74
12:15:00	3.45	15.02	17.71	25.2	3.81	15.87	18.90	31.15	12.06	15.09	27.35
12:30:00	3.57	11.67	12.25	14.03	3.73	16.66	19.01	24.63	12.93	15.28	20.90
12:45:00	3.67	17.24	12.08	12.15	3.72	16.46	18.12	22.77	12.73	14.39	19.04
13:00:00	3.87	14.35	11.78	9.06	3.79	16.58	16.62	16.97	12.79	12.83	13.18
13:15:00	3.24	12.21	10.52	14.03	3.56	14.10	12.87	14.89	10.54	9.31	11.33
13:30:00	3.37	16.47	12.03	17.27	3.54	14.39	11.73	13.31	10.84	8.19	9.76
13:45:00	6.09	11.79	9.14	13.1	4.05	14.41	11.11	13.12	10.36	7.06	9.07
14:00:00	5.23	12.94	9.27	11.07	4.36	13.55	10.55	12.91	9.19	6.19	8.55
14:15:00	6.8	10.1	11.75	10.61	4.95	12.70	10.54	13.22	7.76	5.60	8.27
14:30:00	6.24	12.68	11.41	6.79	5.55	12.80	10.72	11.77	7.25	5.17	6.22
14:45:00	6.13	9.61	8.11	7.19	6.10	11.42	9.94	9.75	5.33	3.84	3.65
15:00:00	5.65	8.24	6.94	6.57	6.01	10.71	9.50	8.45	4.70	3.49	2.44
15:15:00	6.41	6.83	6.35	16.58	6.25	9.49	8.91	9.55	3.25	2.67	3.30
15:30:00	6.3	8.57	9.77	11.02	6.15	9.19	8.52	9.63	3.04	2.37	3.48
15:45:00	5.59	7.81	6.82	10	6.02	8.21	7.60	10.27	2.20	1.58	4.26
16:00:00	6.39	7.06	7.04	9.1	6.07	7.70	7.38	10.65	1.63	1.32	4.59
16:15:00	7.89	6.03	9.8	8.23	6.52	7.26	7.96	10.99	0.74	1.44	4.47
16:30:00	8.26	5.23	7.94	9.07	6.89	6.94	8.27	9.48	0.05	1.39	2.60
16:45:00	6.11	5.77	9.3	15.02	6.85	6.38	8.18	10.28	-0.47	1.33	3.44
17:00:00	4.58	5.94	10.45	11.65	6.65	6.01	8.91	10.61	-0.64	2.26	3.97
17:15:00	5.63	8.29	9.49	17.56	6.49	8.29	9.40	12.31	-0.24	2.90	5.81
17:30:00	5.36	7.91	9.21	12.18	5.99	6.63	9.28	13.10	0.64	3.29	7.11
17:45:00	5.67	7.1	10.91	15	5.47	7.00	9.87	14.28	1.53	4.40	8.81
18:00:00	7	6.1	8.79	14.7	5.65	7.07	9.77	14.22	1.42	4.12	8.57

Wednesday, March 10, 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	2.8	4.02	7.79	7.81	2.83	3.38	7.59	8.38	0.55	4.75	5.55
7:15:00	2.92	6.65	7.34	6.66	2.90	4.17	7.82	8.18	1.27	4.92	5.28
7:30:00	2.94	5.2	10.3	7.44	3.03	4.73	8.53	7.85	1.70	5.50	4.81
7:45:00	3.3	4.88	6.68	6.61	3.00	4.95	8.50	7.40	1.96	5.50	4.41
8:00:00	3.7	5.11	6.17	6.35	3.13	5.17	7.66	6.97	2.04	4.52	3.84
8:15:00	3.51	5	5.71	6.21	3.27	5.37	7.24	6.65	2.09	3.97	3.38
8:30:00	2.82	4.62	8.53	7.13	3.25	4.96	7.48	6.75	1.71	4.22	3.49
8:45:00	2.73	5.96	5.94	6.46	3.21	5.11	6.61	6.55	1.90	3.39	3.34
9:00:00	4.01	5.2	6.05	6.82	3.35	5.18	6.48	6.59	1.82	3.13	3.24
9:15:00	3.22	4.38	5.71	6.89	3.26	5.03	6.39	6.70	1.77	3.13	3.44
9:30:00	4.04	4.75	9.44	13.89	3.36	4.98	7.13	8.24	1.62	3.77	4.87
9:45:00	4.01	6.4	14.94	13.94	3.60	5.34	8.42	9.60	1.74	4.81	6.00
10:00:00	3.29	6.62	9.99	12.95	3.71	5.47	9.23	10.90	1.76	5.51	7.18
10:15:00	3.38	7.05	9.44	13.02	3.59	5.84	9.90	12.14	2.25	6.32	8.55
10:30:00	4.11	8.62	10.95	16.65	3.77	6.69	10.95	14.09	2.92	7.19	10.32
10:45:00	3.75	11.25	17.05	16.74	3.71	7.99	12.47	14.66	4.28	8.77	10.95
11:00:00	4.06	11.18	14	16.96	3.72	8.94	12.29	15.26	5.23	8.57	11.55
11:15:00	3.93	10.64	12.68	23.81	3.85	9.75	12.82	17.44	5.90	8.98	13.59
11:30:00	4.42	14.66	16.57	15.03	4.05	11.27	14.25	17.84	7.22	10.20	13.78
11:45:00	5.09	11.64	11.96	16.59	4.25	11.87	14.45	17.83	7.62	10.20	13.58
12:00:00	3.44	10.51	12.73	31.91	4.19	11.73	13.59	20.86	7.54	9.40	16.67
12:15:00	4.42	12.41	18.54	33.22	4.26	11.97	14.50	24.11	7.71	10.24	19.85
12:30:00	3.66	9.41	13.44	18.41	4.21	11.73	14.65	23.03	7.52	10.44	18.83
12:45:00	3.14	8.78	12.5	16.37	3.95	10.55	13.83	23.30	6.60	9.88	19.35
13:00:00	4.52	10.44	13.33	26.71	3.84	10.31	14.11	25.32	6.47	10.27	21.49
13:15:00	7.33	9.7	14.38	32.89	4.61	10.15	14.44	25.52	5.53	9.82	20.91
13:30:00	7.4	10.89	16.49	16.75	5.21	9.84	14.03	22.23	4.63	8.82	17.02
13:45:00	6.64	10.45	13.15	16.53	5.81	10.05	13.97	21.85	4.25	8.16	16.04
14:00:00	4.35	9.97	13.59	17.32	6.05	10.29	14.19	22.04	4.24	8.14	15.99
14:15:00	5.25	8.81	12.82	14.44	6.19	9.96	14.09	19.59	3.77	7.89	13.39
14:30:00	6.07	7.87	15.78	19.93	5.94	9.60	14.37	16.99	3.66	8.42	11.05
14:45:00	6.97	9.4	15.73	19.43	5.86	9.30	14.21	17.53	3.44	8.36	11.67
15:00:00	8.05	8.68	12.98	12.22	6.14	8.95	14.18	16.67	2.81	8.04	10.53
15:15:00	6.73	8.26	10.46	14.41	6.61	8.60	13.55	16.09	1.99	6.94	9.47
15:30:00	7.05	8.67	11.15	11.25	6.97	8.58	13.22	15.45	1.60	6.25	8.47
15:45:00	7.01	8.61	8.65	11.29	7.16	8.72	11.79	13.72	1.56	4.63	6.56
16:00:00	7.46	7.12	8.41	13.39	7.26	8.27	10.33	12.51	1.01	3.07	5.25
16:15:00	6.64	7.37	8.38	10.16	6.98	8.01	9.41	12.10	1.03	2.43	5.12
16:30:00	6.01	6.96	7.36	13.26	6.83	7.75	8.79	11.87	0.91	1.96	5.04
16:45:00	6.59	6.15	9.15	12.48	6.74	7.24	8.39	12.12	0.50	1.65	5.37
17:00:00	6.42	7.6	11.67	15.86	6.62	7.04	8.99	13.03	0.42	2.37	6.41
17:15:00	5.78	7.86	15.51	13.91	6.29	7.19	10.41	13.13	0.90	4.13	6.85
17:30:00	6.1	6.33	9.84	11.79	6.18	6.98	10.71	13.46	0.80	4.53	7.28
17:45:00	5.58	6.05	10.5	10.33	6.09	6.80	11.33	12.87	0.70	5.24	6.78
18:00:00	6.01	5.05	7.66	8.77	5.98	6.58	11.04	12.13	0.60	5.06	6.15

Thursday, March 11, 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	3.25	3.22	5.48	7.05	3.63	3.00	5.26	6.55	-0.63	1.63	2.93
7:15:00	3.1	3.75	5.4	7.89	3.65	3.14	5.32	6.86	-0.52	1.66	3.21
7:30:00	3.44	4.73	7.85	8.49	3.58	3.44	5.78	7.18	-0.14	2.19	3.60
7:45:00	3.71	4.9	7.5	9.06	3.43	3.91	6.18	7.63	0.48	2.76	4.20
8:00:00	2.46	5.45	8.12	8.06	3.19	4.41	6.87	8.11	1.22	3.68	4.92
8:15:00	5.99	6.66	8.26	9.78	3.74	5.10	7.43	8.66	1.36	3.69	4.92
8:30:00	2.78	6.05	7.61	9.66	3.68	5.56	7.87	9.01	1.88	4.19	5.33
8:45:00	2.6	7.26	8.14	8.59	3.51	6.06	7.93	9.03	2.56	4.42	5.52
9:00:00	3.32	5.99	7.88	7.78	3.43	6.28	8.00	8.77	2.85	4.57	5.34
9:15:00	4.25	5.51	7.75	8.94	3.79	6.29	7.93	8.95	2.51	4.14	5.16
9:30:00	3.46	5.56	8.42	22.67	3.28	6.07	7.96	11.53	2.79	4.68	8.25
9:45:00	4.19	9.34	17.48	17.04	3.56	6.73	9.93	13.00	3.17	6.37	9.44
10:00:00	4.6	9.46	10.98	10.95	3.96	7.17	10.50	13.48	3.21	6.54	9.51
10:15:00	3.43	8.76	12.42	10.58	3.99	7.73	11.41	14.04	3.74	7.42	10.05
10:30:00	3.13	8.11	8.94	10.58	3.76	8.25	11.65	14.36	4.48	7.89	10.60
10:45:00	4.59	7.22	9.19	19.37	3.99	8.58	11.80	13.70	4.59	7.81	9.72
11:00:00	3.33	12.35	18.61	22.23	3.82	9.18	12.03	14.74	5.36	8.21	10.93
11:15:00	3.24	9.76	12.75	13.18	3.54	9.24	12.38	15.19	5.70	8.84	11.64
11:30:00	3.54	10.5	12.59	11.5	3.57	9.59	12.42	15.37	6.02	8.85	11.81
11:45:00	3.19	10.69	10.89	31.1	3.58	10.10	12.81	19.48	6.53	9.23	15.90
12:00:00	3.33	12.13	15.68	31.67	3.33	11.09	14.10	21.94	7.76	10.78	18.61
12:15:00	4.33	11.4	15.82	11	3.53	10.90	13.55	19.69	7.37	10.02	16.16
12:30:00	3.65	8.38	11.71	11.93	3.61	10.62	13.34	19.44	7.01	9.73	15.83
12:45:00	2.98	7.88	10.94	13.99	3.50	10.10	13.01	19.94	6.60	9.51	16.44
13:00:00	3.42	14.33	13.32	24.1	3.54	10.82	13.49	18.54	7.28	9.95	15.00
13:15:00	3.61	10.56	23.63		3.60	10.51	15.08	15.26	6.91	11.49	11.66
13:30:00	3.56	11.17	13.37	21.82	3.44	10.46	14.59	17.96	7.02	11.15	14.52
13:45:00	3.23	7.99	13.02	15.03	3.36	10.39	14.86	18.74	7.03	11.50	15.38
14:00:00	14.07	10.72	14.41	28.6	5.58	10.95	15.55	22.39	5.38	9.97	16.81
14:15:00		11.39	26.72	24.54	6.12	10.37	18.23	22.50	4.25	12.11	16.38
14:30:00	7.54	11.8	13.15	18.79	7.10	10.61	16.13	21.76	3.51	9.03	14.66
14:45:00	2.97	10.64	11.57	12.98	6.95	10.51	15.77	19.99	3.56	8.82	13.04
15:00:00	4.21	10.47	11.22	16.78	7.20	11.00	15.41	20.34	3.81	8.22	13.14
15:15:00	6.24	10.25	14.62	25.47	5.24	10.91	15.46	19.71	5.67	10.22	14.47
15:30:00	4.55	10.96	12.71	21.68	5.10	10.82	12.65	19.14	5.72	7.55	14.04
15:45:00	4.15	9.92	11.41	12.29	4.42	10.45	12.31	17.84	6.02	7.88	13.42
16:00:00	4.47	10	9.28	13.99	4.72	10.32	11.85	18.04	5.60	7.12	13.32
16:15:00	5.42	9.92	9.77	14.42	4.97	10.21	11.56	17.57	5.24	6.59	12.60
16:30:00	4.19	7.54	18.38	15.28	4.56	9.67	12.31	15.53	5.11	7.75	10.98
16:45:00	5.49	9.59	11.76	13.77	4.74	9.39	12.12	13.95	4.65	7.38	9.21
17:00:00	6.6	9.98	13.27	9.8	5.23	9.41	12.49	13.45	4.17	7.26	8.22
17:15:00		8.62	10.17	16.62	5.43	9.13	12.67	13.98	3.71	7.25	8.55
17:30:00	7.06	8.55	11.02	19.68	5.84	8.86	12.92	15.03	3.02	7.09	9.20
17:45:00	6.74	6.46	9.04	13.46	6.47	8.64	11.05	14.67	2.17	4.58	8.19
18:00:00	9.26	6.52	9.06	10.37	7.42	8.03	10.51	13.99	0.61	3.10	6.57

Friday, March 12, 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	3.5	3.04	5.26	7.48	2.90	2.79	4.74	6.01	-0.11	1.84	3.11
7:15:00	3.49	3.07	5.06	6.53	3.08	2.90	4.83	6.32	-0.18	1.75	3.24
7:30:00	3.57	3.16	5.08	6.06	3.28	3.01	4.95	6.27	-0.28	1.67	2.99
7:45:00	3.86	3	4.79	6.13	3.55	3.07	5.00	6.45	-0.48	1.44	2.89
8:00:00	3.34	3.18	5.08	6.43	3.55	3.09	5.05	6.53	-0.46	1.50	2.97
8:15:00	3.38	3.41	4.51	5.86	3.53	3.16	4.90	6.20	-0.36	1.38	2.67
8:30:00	3.66	3.54	7.83	6.45	3.56	3.26	5.46	6.19	-0.30	1.90	2.62
8:45:00	3.45	3.38	4.26	6.19	3.54	3.30	5.29	6.21	-0.24	1.76	2.67
9:00:00	3.09	3.38	3.92	5.4	3.38	3.38	6.07	6.07	-0.01	1.74	2.68
9:15:00	2.67	3.13	7.35	5.26	3.25	3.37	5.57	5.83	0.12	2.32	2.58
9:30:00	4.38	2.96	5.05	7.37	3.45	3.28	5.68	6.13	-0.17	2.23	2.68
9:45:00	3.96	5.14	6.57	9.54	3.51	3.60	5.43	6.75	0.09	1.92	3.24
10:00:00	3.04	5.23	6.25	10.49	3.43	3.97	5.83	7.61	0.54	2.40	4.18
10:15:00	2.84	5.85	5.82	9.64	3.38	4.46	6.21	8.46	1.08	2.83	5.08
10:30:00	3.52	5.16	7.49	17.39	3.55	4.87	6.24	10.89	1.32	2.69	7.34
10:45:00	3.89	8.61	15.02	15.87	3.45	6.00	8.23	12.59	2.55	4.78	9.14
11:00:00	3.56	8.43	13.22	18.15	3.37	6.66	9.56	14.31	3.29	6.19	10.94
11:15:00	3.12	7.51	14.8	16.8	3.39	7.11	11.27	15.57	3.73	7.88	12.18
11:30:00	3.29	9.6	16.71	17.21	3.48	7.86	13.45	17.08	4.39	9.97	13.61
11:45:00	3.34	13.76	17.77	31.99	3.44	9.58	15.50	20.00	6.14	12.06	16.56
12:00:00	3.75	13.19	14.93	15.7	3.41	10.50	15.49	19.97	7.09	12.07	16.56
12:15:00	3.37	14.35	12.87	15.44	3.37	11.68	15.42	19.43	8.31	12.04	16.05
12:30:00	3.72	14.61	11.62	19.03	3.49	13.10	14.78	19.87	9.61	11.29	16.38
12:45:00	3.08	13.63	25.6	28.79	3.45	13.91	16.56	22.19	10.46	13.11	18.74
13:00:00	4.06	11.28	14.05	16.98	3.60	13.41	15.81	19.19	9.82	12.22	15.59
13:15:00	3.22	10.33	12.67	13.69	3.49	12.84	15.36	18.79	9.35	11.87	15.30
13:30:00	3.65	11.18	12.34	11.57	3.55	12.21	15.26	18.01	8.66	11.71	14.47
13:45:00	3.28	8.71	14.98	13.8	3.46	11.03	15.93	16.97	7.57	12.47	13.51
14:00:00	3.21	10.68	12.17	43.92	3.48	10.44	13.24	19.99	6.95	9.76	16.51
14:15:00	3.31	15.51	24.84	23.05	3.33	11.28	15.40	21.21	7.95	12.07	17.87
14:30:00	3.11	16.12	16.53	20.39	3.31	12.44	16.17	22.55	9.13	12.86	19.23
14:45:00	3.36	9.48	14.02	17.32	3.25	12.10	16.51	23.70	8.85	13.25	20.44
15:00:00	2.93	8.38	13.41	14.61	3.18	12.03	16.19	23.86	8.85	13.01	20.67
15:15:00	2.84	9.03	13.41	11.48	3.11	11.70	16.44	17.37	8.59	13.33	14.26
15:30:00	2.97	8.62	12.85	10.11	3.04	10.33	14.04	14.78	7.28	11.00	11.74
15:45:00	5.46	8.38	9.23	9.49	3.51	8.78	12.58	12.60	5.27	9.07	9.09
16:00:00	5.7	8.31	8.04	7.56	3.98	8.54	11.39	10.65	4.56	7.41	6.67
16:15:00	7.09	8.15	7.3	6.13	4.81	8.50	10.17	8.95	3.69	5.35	4.14
16:30:00	5.13	6.87	5.68	6.14	5.27	8.07	8.62	7.89	2.80	3.35	2.62
16:45:00	6.25	6.61	5.15	6.46	5.93	7.66	7.08	7.16	1.74	1.15	1.23
17:00:00	5.36	6.57	5.39	6.71	5.91	7.30	6.31	6.60	1.40	0.41	0.69
17:15:00	4.52	5.27	5.38	7.14	5.67	6.69	5.78	6.52	1.02	0.11	0.85
17:30:00	4.74	4.22	5.46	7.3	5.20	5.91	5.41	6.75	0.71	0.21	1.55
17:45:00	5.59	3.46	5.49	7.5	5.29	5.23	5.37	7.02	-0.07	0.08	1.73
18:00:00	6.5	3.62	5.89	7.07	5.34	4.63	5.52	7.14	-0.71	0.18	1.80