GOWANUS CANAL SUPERFUND SITE RTA2 REMEDIAL CONSTRUCTION Water Quality Monitoring Weekly Data Summary

PERIOD: April 7, 2025 – April 11, 2025

Date of Report: April 15, 2025

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1. SCOPE OF MONITORING

1.1 **Buoy Locations**

In accordance with the Water Quality Monitoring Plan for In-waterway Construction Activities (WQMP) issued March 27, 2024, buoys equipped with multi-parameter water quality sondes, were deployed to monitor turbidity related to RTA2 construction activities. Buoys were deployed in the Fourth Street Turning Basin (TB4) to monitor background turbidity unaffected by in-water construction activities and at the North Carroll Street Bridge, which is referred to as the ambient buoy. A sentinel buoy was deployed north of 3rd Street Bridge (3SB), along the west bulkhead. A sentinel buoy was deployed north of 9th Street Bridge (9SB), along the west bulkhead. These buoys (Figure 1) are in use to monitor the RTA2 pre-construction activities.

All readings from buoys were transmitted via telemetry at 15-minute intervals. The instrument used to collect turbidity from the buoys is an In-Situ VuLink (telemetry) and AquaTroll500 (sonde), equipped with optical sensors capable of reading turbidity levels with an accuracy of +/-0.5 NTU.

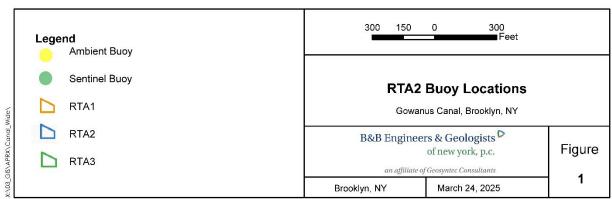
1.2 Summary of Monitoring Adjustments during Construction

- August 9, 2024, after the conclusion of RTA1 WQMP, two additional buoys were added to the RTA2 WQMP, for a total of three sentinel buoys. The ambient buoy was moved to approximately ten meters north of Carroll Street Bridge, on the west side of the canal (ambient). A sentinel buoy was placed approximately twenty meters north of 3rd Street Bridge on the west side (3SB). A sentinel buoy was placed in Fourth Street Turning Basin (TB4). The 9th Street Bridge sentinel buoy (9SB) was not moved.
- To reduce instrument downtime, the 9th Street Bridge sentinel buoy (9SB) was relocated to the northeast side of the 9th Street Bridge on August 19, 2024. After two days of data collection, elevated turbidity readings were observed both during and outside of work hours. Consequently, on August 21, 2024, the buoy was moved again, this time to the northeast corner of the Hamilton Street Bridge.
- Turbidity readings at the Hamilton Street Bridge location exceeded 100 NTU both during and outside working hours. However, these readings were not representative of the actual turbidity within the RTA2 work area. Due to commercial traffic, a safe location for the sonde and buoy could not be found south of the 9th Street Bridge. Consequently, the sonde and buoy were relocated to the west side, 5 meters north of the 9th Street Bridge on Tuesday, August 27, 2024, at 08:15.
- Turbidity readings at 9SB were noted to be erratic and exceed 100 NTU both during and outside working hours. The buoy was moved approximately 20 meters north of 9th Street Bridge on Monday, September 9, 2024.

- On September 16, 2024, the 9SB was deselected from construction monitoring, as there are no construction activities in the main canal or in the vicinity of 9th Street Bridge. The buoy will remain in the water to collect background data as it is believed this area has naturally high NTU readings. A spot check zero calibration was performed on the buoy on Wednesday, September 18, 2024 to confirm the sensors were reading properly during this background monitoring period.
- On November 7, 2024, the ambient sonde and buoy was moved to the center of Carroll Street Bridge in an effort to reduce instrument downtime due to poor cell signal. This area was found to have a 100% cellular signal.
- On November 18, 2024, the sentinel buoy in TB4 was deselected from construction monitoring due to instrument errors. The buoy will remain out of service until maintenance and field observations can be made.
- On November 25, 2024, the 9SB sonde and buoy were placed back into the water quality monitoring program.
- On December 18, 2024, the 9SB sonde and buoy were relocated south of 9th Street Bridge along the eastern bulkhead, to avoid construction vessel traffic and shallow waters which had been resulting in false elevated readings, particularly during low tide events.
- On February 12, 2025, after observing a pause in data transmission, the ambient sonde and buoy were moved in an attempt to get a better signal in the area. It was moved to approximately 150 feet north of Carroll Street Bridge, to the center of the canal. On February 14, 2025, with data transmission issues not resolving, the ambient sonde and buoy were moved to approximately 200 feet south of Union Street Bridge, in the center of the canal where stronger signal strength has been observed. A test upload was performed; however data did not upload. Further troubleshooting will be required.
- On February 18, 2025, the ambient sonde buoy was removed from service due to consistent instrumentation and telemetry issues. The buoy will remain out of service until repairs are made.
- On February 25, 2025, the Ambient sonde and buoy was reinstated and positioned 200 feet south of the Union Street Bridge. Elevated readings were recorded, prompting a calibration check to verify the turbidity sensor's functionality. The sensor was confirmed to be operating normally.
- On February 25, 2025, the 9SB sonde was taken out of service due to instrumentation and telemetry failure. No data was recorded from 13:45 onward. The sonde will remain out of service until repairs are completed.
- On February 28, 2025, the Ambient buoy was moved another 200 feet south to the middle of Carrol Street bridge, to deeper water conditions.

- On March 17, 2025, a rental sonde unit was deployed at the sentinel buoy in TB4 while repairs to the original sonde are ongoing.
- On March 25, 2025, the sonde for the 9SB was redeployed into service. It was placed Northeast of the 9th Street Bridge. Readings have remained consistent and stable since deployment.
- On March 25, 2025, the 3SB was removed from service due to instrumentation and telemetry issues. The buoy will remain out of service until a rental sonde arrives while the other is sent out for repairs and maintenance.
- On March 28, 2025, the TB4 buoy was adjusted approximately 10 feet to deeper water conditions.
- On April 3, 2025, a repaired sonde was deployed at the north of 3SB location in lieu of a rental sonde as mentioned in the monitoring adjustment on March 25, 2025.





1.3 Current Reporting Period Scope of Monitoring

During the week of April 7, 2025, four buoys equipped with multi-parameter water quality sondes were deployed as described in Section 1.2. The Ambient buoy is deployed in the center of the canal at Carrol Street bridge, the north third street sentinel buoy just north of the Third Street Bridge, the turning basin four sentinel buoy approximately 200 feet into the Fourth Street Basin, and the ninth street bridge sentinel buoy just north-east of the Ninth Street Bridge.

All readings from buoys were transmitted via telemetry at 15-minute intervals. The instrument used to collect turbidity and DO from the buoys is an In-Situ VuLink (telemetry) and AquaTroll500 (sonde), equipped with optical sensors capable of reading turbidity levels with an accuracy of \pm 0.5 NTU and DO levels with an accuracy of \pm 0.1 mg/L.

Visual observations of turbidity and sheen are summarized in Section 4.

1.4 Meteorological Conditions

The weather conditions onsite were as follows:

Meteorological Parameters	4/07/2025	4/08/2025	4/09/2025	4/10/2025	4/11/2025
Wind Direction (from)	NNE	WNW	WSW	SSE	NE
Wind Speed (mph)	5.1	9.6	8.2	6.8	6.5
Temperature (°F)	42.7	40.9	38.7	43.1	43.5
Humidity (%)	87.6	56.8	45.1	66.5	85.9
Barometric Pressure (inHg)	29.68	29.66	30.14	30.21	30.04
Precipitation (Inch)	0.138	0.004	0	0	0.469

Table 1 - Summary of Weather Conditions for reporting period.

1.5 <u>Tidal Conditions</u>

Tidal data from the Battery (National Oceanic and Atmospheric Administration [NOAA] Station 8518750) was reviewed and is summarized as follows:

Date	Time (LST/LDT)	Predicted (ft)	Preliminary (ft)	High/Low
Monday, April 7, 2025	4:53 AM	1.55	2.01	Н
Monday, April 7, 2025	11:33 AM	-2.47	-1.49	L
Monday, April 7, 2025	5:34 PM	1.42	2.1	Н
Monday, April 7, 2025	11:45 PM	-2.14	-1.23	L
Tuesday, April 8, 2025	5:56 AM	1.59	2.73	Н
Tuesday, April 8, 2025	12:21 PM	-2.57	-2.11	L
Tuesday, April 8, 2025	6:28 PM	1.67	1.47	Н
Wednesday, April 9, 2025	12:36 AM	-2.32	-2.28	L
Wednesday, April 9, 2025	6:47 AM	1.7	1.4	Н
Wednesday, April 9, 2025	1:04 PM	-2.66	-2.66	L
Wednesday, April 9, 2025	7:12 PM	1.94	2.27	Н
Thursday, April 10, 2025	1:22 AM	-2.49	-2.33	L
Thursday, April 10, 2025	7:29 AM	1.78	1.82	Н
Thursday, April 10, 2025	1:44 PM	-2.71	-2.37	L
Thursday, April 10, 2025	7:51 PM	2.16	2.62	Н
Friday, April 11, 2025	2:05 AM	-2.64	-1.66	L
Friday, April 11, 2025	8:08 AM	1.81	2.51	Н
Friday, April 11, 2025	2:22 PM	-2.72	-1.89	L
Friday, April 11, 2025	8:26 PM	2.32	3.2	Н

 Table 2 - NOAA Preliminary observations and predictions.

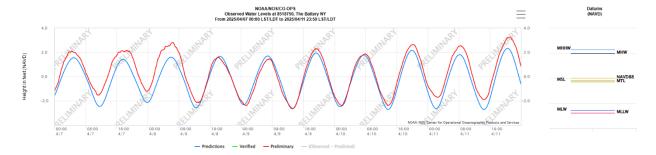


Figure 2 - Tidal Chart for reporting period.

2. REPORT OF EXCEEDANCES

No exceedances to the trigger and action levels occurred during the monitoring period.

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
- o 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 RTA2 over a one-hour period exceeds the rolling average of the ambient buoy turbidity measurements by 40 NTU excluding any eliminated outlier measurements and inwaterway 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 RTA2, 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.

3. TURBIDITY BUOY DATA

No exceedances to the trigger and action levels occurred during the monitoring period.

3.1 **Monday, April 7, 2025**

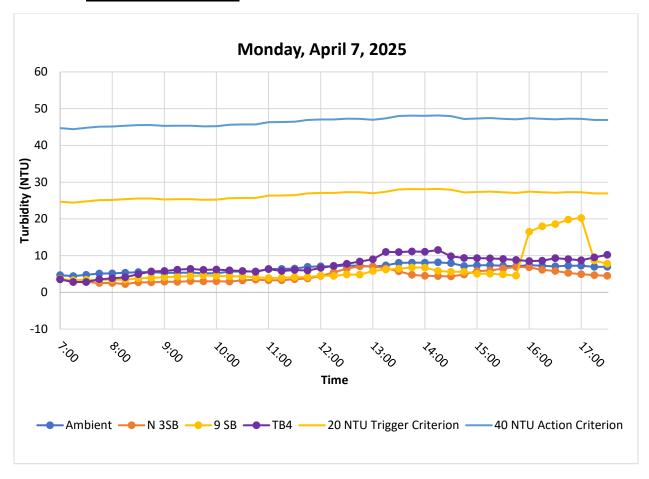


Figure 3. Hourly rolling average turbidity readings from 07:00 to 17:30.

3.2 <u>Tuesday, April 8, 2025</u>

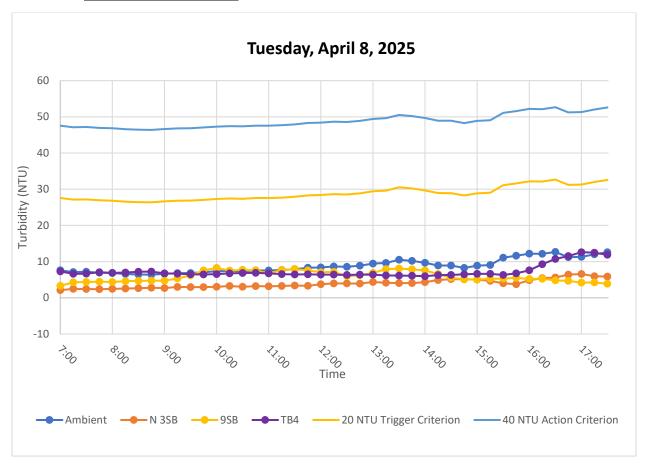


Figure 4. Hourly rolling average turbidity readings from 07:00 to 17:30.

3.3 Wednesday, April 9 2025

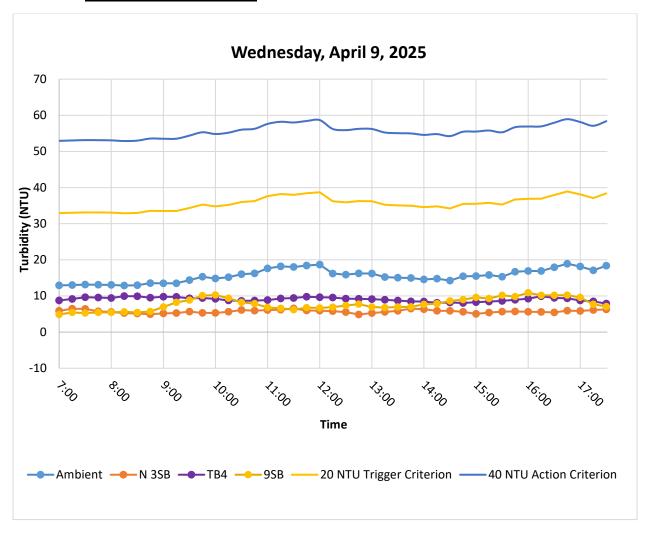


Figure 5. Hourly rolling average turbidity readings from 07:00 to 17:30.

3.4 Thursday, April 10, 2025

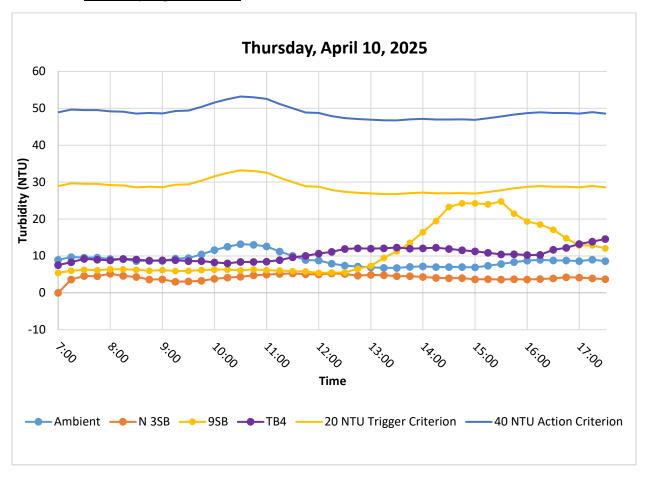


Figure 6. Hourly rolling average turbidity readings from 07:00 to 17:30.

3.5 <u>Friday, April 11, 2025</u>

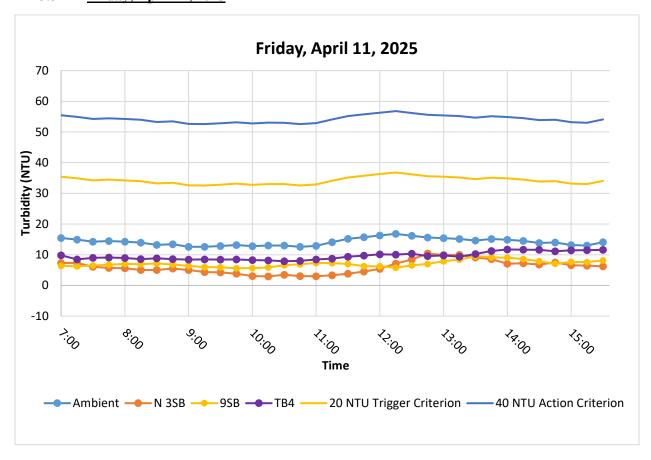


Figure 7. Hourly rolling average turbidity readings from 07:00 to 15:30.

4. SUMMARY OF VISUAL OBSERVATIONS

Throughout the majority of the reporting period, sheens in the RTA2 areas ranged from minimal to moderate.



Figure 8 – April 7, 2025. General Conditions in Canal north of 9th Street Bridge near TB6 during in-waterway construction activities.



Figure 9 – April 8, 2025. General Conditions in Canal north of 9th Street Bridge near TB6 during in-waterway construction activities.



Figure 10 – April 11, 2025. General Conditions in Canal south of 3rd Street Bridge near TB4 during in-waterway construction activities.

APPENDIX A Turbidity Data Tables

Monday, Apr 7, 2025

Date	Time		Turbidity (NTU)			Rolling Avera	ge Turbidity (NT	n)		Difference (NTU)	
		Ambient	N3SB	TB4	9SB	Ambient	N3SB	TB4	9SB	N3SB - Ambient	TB4 - Ambient	9SB - Ambient
3/17/2025	7:00:00	4.68	3.52	3.52	3.67	4.68	3.52	3.52	3.67	-1.16	-1.16	-1.01
3/17/2025	7:15:00	4.15	2.06	2.06	2.93	4.41	2.79	2.79	3.30	-1.62	-1.62	-1.11
3/17/2025	7:30:00	5.50	2.79	2.79	3.64	4.78	2.79	2.79	3.42	-1.98	-1.98	-1.36
3/17/2025	7:45:00	6.08	1.88	5.79	3.24	5.10	2.56	3.54	3.37	-2.54	-1.56	-1.73
3/17/2025	8:00:00	5.37	2.57	4.90	3.88	5.16	2.57	3.81	3.47	-2.59	-1.34	-1.68
3/17/2025	8:15:00	5.66	1.95	5.07	3.68	5.35	2.25	4.12	3.48	-3.10	-1.23	-1.88
3/17/2025	8:30:00	4.99	4.34	6.23	4.61	5.52	2.71	4.96	3.81	-2.81	-0.56	-1.71
3/17/2025	8:45:00	5.50	2.85	6.43	4.32	5.52	2.72	5.69	3.94	-2.80	0.17	-1.57
3/17/2025	9:00:00	4.95	2.74	6.44	4.17	5.29	2.89	5.81	4.13	-2.40	0.52	-1.16
3/17/2025	9:15:00	5.66	2.35	6.63	4.64	5.35	2.85	6.16	4.28	-2.51	0.81	-1.07
3/17/2025	9:30:00	5.68	2.97	6.09	4.33	5.35	3.05	6.37	4.41	-2.31	1.01	-0.94
3/17/2025	9:45:00	4.20	3.91	4.88	5.83	5.20	2.96	6.10	4.66	-2.23	0.90	-0.54
3/17/2025	10:00:00	5.62	3.07	7.00	3.25	5.22	3.01	6.21	4.44	-2.21	0.99	-0.78
3/17/2025	10:15:00	6.95	2.44	5.28	3.82	5.62	2.95	5.98	4.37	-2.67	0.36	-1.25
3/17/2025	10:30:00	5.99	3.74	5.90	4.38	5.69	3.23	5.83	4.32	-2.46	0.14	-1.37
3/17/2025	10:45:00	5.75	4.22	4.82	3.17	5.70	3.48	5.58	4.09	-2.22	-0.12	-1.61
3/17/2025	11:00:00	7.29	2.89	8.66	4.83	6.32	3.27	6.33	3.89	-3.05	0.01	-2.43
3/17/2025	11:15:00	5.85	3.12	4.45	3.46	6.36	3.28	5.82	3.93	-3.08	-0.54	-2.43
3/17/2025	11:30:00	7.44	4.03	6.62	4.95	6.46	3.60	6.09	4.16	-2.86	-0.37	-2.30
3/17/2025	11:45:00	8.35	4.50	5.23	4.39	6.93	3.75	5.96	4.16	-3.18	-0.98	-2.77
3/17/2025	12:00:00	6.36	7.80	8.20	5.15	7.06	4.47	6.63	4.56	-2.59	-0.42	-2.50
3/17/2025	12:15:00	7.27	7.74	11.61	4.44	7.05	5.44	7.22	4.48	-1.61	0.17	-2.57
3/17/2025	12:30:00	7.01	8.25	7.17	5.35	7.28	6.46	7.77	4.86	-0.82	0.48	-2.43
3/17/2025	12:45:00	7.19	7.11	9.71	4.67	7.23	7.08	8.38	4.80	-0.16	1.15	-2.44
3/17/2025	13:00:00	7.08	4.52	8.33	9.47	6.98	7.08	9.00	5.81	0.10	2.02	-1.17
3/17/2025	13:15:00	8.22	4.84	18.15	7.16	7.35	6.49	10.99	6.22	-0.86	3.64	-1.14
3/17/2025	13:30:00	10.59	3.89	11.30	5.56	8.02	5.72	10.93	6.44	-2.30	2.91	-1.58
3/17/2025	13:45:00	7.37	3.47	8.13	7.09	8.09	4.77	11.12	6.79	-3.33	3.03	-1.30
3/17/2025	14:00:00	7.09	5.89	9.30	4.25	8.07	4.52	11.04	6.70	-3.55	2.97	-1.37
3/17/2025	14:15:00	7.50	4.01	10.65	5.05	8.15	4.42	11.51	5.82	-3.73	3.35	-2.33
3/17/2025	14:30:00	7.23	4.30	9.74	6.08	7.95	4.31	9.82	5.60	-3.64	1.87	-2.35
3/17/2025	14:45:00	6.72	6.69	8.93	5.49	7.18	4.87	9.35	5.59	-2.31	2.17	-1.59
3/17/2025	15:00:00	8.11	8.04	7.85	4.55	7.33	5.79	9.29	5.08	-1.54	1.97	-2.25
3/17/2025	15:15:00	7.59	6.60	9.02	4.23	7.43	5.93	9.24	5.08	-1.50	1.81	-2.35
3/17/2025	15:30:00	6.47	6.65	9.89	3.93	7.22	6.46	9.09	4.85	-0.77	1.86	-2.37
3/17/2025	15:45:00	6.50	6.53	8.33	4.44	7.08	6.90	8.80	4.53	-0.18	1.73	-2.55
3/17/2025	16:00:00	8.33	6.35	7.47	65.28	7.40	6.83	8.51	16.49	-0.57	1.11	9.08
3/17/2025	16:15:00	7.22	4.45	8.38	11.95	7.22	6.12	8.62	17.97	-1.11	1.39	10.74
3/17/2025	16:30:00	6.90	4.99	12.47	7.36	7.09	5.79	9.31	18.59	-1.29	2.22	11.51
3/17/2025	16:45:00	7.38	4.05	8.49	9.86	7.27	5.27	9.03	19.78	-1.99	1.76	12.51
3/17/2025	17:00:00	6.35	4.89	6.89	6.79	7.24	4.95	8.74	20.25	-2.29	1.50	13.01
3/17/2025	17:15:00	6.75	5.07	11.25	7.45	6.92	4.69	9.50	8.68	-2.23	2.57	1.76
3/17/2025	17:30:00	7.23	3.52	11.97	7.41	6.92	4.50	10.21	7.77	-2.42	3.29	0.85

Date	Time		T	urbidity (NTU)			Rolling Ave	rage Turbidity (N	ITU)		Difference (NTU)	
		Ambient	N3SB	TB4	9SB	Ambient	N3SB	TB4	9SB	N3SB - Ambient	TB4 - Ambient	9SB - Ambient
3/18/25	7:00:00	7.58	2.12	7.29	3.31	7.58	2.12	7.29	3.31	-5.46	-0.29	-4.27
3/18/25	7:15:00	6.65	2.85	5.99	5.29	7.12	2.48	6.64	4.30	-4.63	-0.48	-2.82
3/18/25	7:30:00	7.35	2.30	6.67	4.46	7.19	2.42	6.65	4.35	-4.77	-0.55	-2.84
3/18/25	7:45:00	6.20	2.24	8.25	4.74	6.95	2.38	7.05	4.45	-4.57	0.10	-2.50
3/18/25	8:00:00	6.36	2.77	6.24	4.06	6.83	2.46	6.89	4.37	-4.37	0.06	-2.46
3/18/25	8:15:00	6.31	2.57	7.73	4.46	6.58	2.55	6.97	4.60	-4.03	0.40	-1.97
3/18/25	8:30:00	6.00	3.26	7.01	5.61	6.45	2.63	7.18	4.67	-3.82	0.73	-1.78
3/18/25	8:45:00	7.06	3.14	7.05	4.67	6.39	2.80	7.25	4.71	-3.59	0.87	-1.68
3/18/25	9:00:00	7.49	1.74	5.73		6.64	2.70	6.75	4.70	-3.95	0.11	-1.94
3/18/25	9:15:00	7.23	4.35	5.73	6.53	6.82	3.01	6.65	5.32	-3.81	-0.17	-1.50
3/18/25	9:30:00	6.55	2.39	6.98	7.92	6.86	2.97	6.50	6.19	-3.89	-0.37	-0.68
3/18/25	9:45:00	6.93	3.26	6.77	11.13	7.05	2.97	6.45	7.57	-4.08	-0.60	0.51
3/18/25	10:00:00	8.38	3.41	7.52	7.41	7.31	3.03	6.55	8.25	-4.29	-0.77	0.93
3/18/25	10:15:00	8.07	2.81	6.84	4.45	7.43	3.24	6.77	7.49	-4.19	-0.66	0.06
3/18/25	10:30:00	6.88	3.28	6.11	7.75	7.36	3.03	6.85	7.73	-4.33	-0.52	0.37
3/18/25	10:45:00	7.55	3.43	7.21	7.29	7.56	3.24	6.89	7.60	-4.32	-0.67	0.04
3/18/25	11:00:00	6.91	3.03	6.05	6.84	7.56	3.19	6.75	6.75	-4.36	-0.81	-0.81
3/18/25	11:15:00	9.03	3.76	6.56	12.09	7.69	3.26	6.55	7.68	-4.43	-1.13	0.00
3/18/25	11:30:00	9.27	3.57	6.31	5.79	7.93	3.41	6.45	7.95	-4.51	-1.48	0.03
3/18/25	11:45:00	8.70	2.86	6.27	5.84	8.29	3.33	6.48	7.57	-4.96	-1.81	-0.72
3/18/25	12:00:00	8.12	5.60	6.81	4.75	8.41	3.76	6.40	7.06	-4.64	-2.00	-1.34
3/18/25	12:15:00	8.16	4.11	5.96	7.23	8.66	3.98	6.38	7.14	-4.68	-2.27	-1.52
3/18/25	12:30:00	8.54	3.75	6.19	6.14	8.56	3.98	6.31	5.95	-4.58	-2.25	-2.61
3/18/25	12:45:00	10.84	3.42	6.83	7.20	8.87	3.95	6.41	6.23	-4.92	-2.46	-2.64
3/18/25	13:00:00	11.50	4.86	6.20	9.09	9.43	4.35	6.40	6.88	-5.08	-3.03	-2.55
3/18/25	13:15:00	9.12	4.60	5.68	9.88	9.63	4.15	6.17	7.91	-5.48	-3.46	-1.72
3/18/25	13:30:00	12.62	3.75	5.90	8.02	10.52	4.08	6.16	8.07	-6.45	-4.37	-2.46
3/18/25	13:45:00	7.04	3.59	5.93	5.15	10.22	4.04	6.10	7.87	-6.18	-4.12	-2.35
3/18/25	14:00:00	8.10	4.86	6.16	5.52	9.68	4.33	5.97	7.53	-5.34	-3.70	-2.14
3/18/25	14:15:00	7.83	7.77	7.59	4.33	8.94	4.92	6.25	6.58	-4.03	-2.69	-2.36
3/18/25	14:30:00	8.95	5.92	6.01	4.73	8.91	5.18	6.32	5.55	-3.73	-2.59	-3.36
3/18/25	14:45:00	9.43	3.40	6.76	5.57	8.27	5.11	6.49	5.06	-3.16	-1.78	-3.21
3/18/25	15:00:00	10.01	3.15	6.53	4.92	8.86	5.02	6.61	5.01	-3.84	-2.25	-3.85
3/18/25	15:15:00	9.03	3.21	6.24	6.76	9.05	4.69	6.63	5.26	-4.36	-2.42	-3.79
3/18/25	15:30:00	18.07	4.34	6.13	4.51	11.10	4.00	6.33	5.30	-7.09	-4.76	-5.80
3/18/25	15:45:00	11.47	4.66	8.13	5.87	11.60	3.75	6.76	5.53	-7.85	-4.84	-6.08
3/18/25	16:00:00	12.39	8.91	11.04	4.09	12.19	4.85	7.61	5.23	-7.34	-4.58	-6.97
3/18/25	16:15:00	9.70	5.95	14.76	5.08	12.13	5.41	9.26	5.26	-6.72	-2.87	-6.87
3/18/25	16:30:00	11.68	4.07	13.63	4.45	12.66	5.59	10.74	4.80	-7.08	-1.92	-7.86
3/18/25	16:45:00	10.88	8.47	10.01	3.90	11.22	6.41	11.51	4.68	-4.81	0.29	-6.54
3/18/25	17:00:00	11.84	5.52	13.61	3.48	11.30	6.58	12.61	4.20	-4.71	1.31	-7.10
3/18/25	17:15:00	15.94	5.75	10.22	4.36	12.01	5.95	12.44	4.25	-6.06	0.44	-7.75
3/18/25	17:30:00		5.55		3.14	12.58	5.87	11.86	3.87	-6.71	-0.72	-8.72

		Turbidity (NTU)					Rolling Averag	e Turbidity (NTU	Difference (NTU)			
Date	Time	Ambient	N3SB	ТВ4	9SB	Ambient	N3SB	TB4	9SB	N3SB - Ambient	TB4 - Ambient	9SB - Ambient
3/19/2025	7:00:00	14.19	5.87	8.77	4.87	12.93	5.87	8.77	4.87	-7.05	-4.16	-8.05
3/19/2025	7:15:00	13.25	7.01	9.54	6.06	13.03	6.44	9.15	5.46	-6.59	-3.88	-7.57
3/19/2025	7:30:00	13.43	6.36	10.58	4.86	13.13	6.41	9.63	5.26	-6.72	-3.50	-7.87
3/19/2025	7:45:00	13.04	3.77	9.44	5.99	13.11	5.75	9.58	5.45	-7.36	-3.53	-7.67
3/19/2025	8:00:00	11.40	4.82	8.91	5.51	13.06	5.57	9.45	5.46	-7.50	-3.61	-7.60
3/19/2025	8:15:00	13.27	4.28	11.29	5.71	12.88	5.25	9.95	5.63	-7.63	-2.93	-7.25
3/19/2025	8:30:00	13.81	6.46	9.26	5.04	12.99	5.14	9.90	5.42	-7.85	-3.09	-7.57
3/19/2025	8:45:00	16.28	5.57	8.73	6.37	13.56	4.98	9.53	5.72	-8.58	-4.03	-7.84
3/19/2025	9:00:00	12.79	4.81	10.66	12.18	13.51	5.19	9.77	6.96	-8.32	-3.74	-6.55
3/19/2025	9:15:00	11.47	5.23	8.80	11.76	13.52	5.27	9.75	8.21	-8.26	-3.77	-5.31
3/19/2025	9:30:00	17.50	6.28	9.32	8.92	14.37	5.67	9.36	8.85	-8.70	-5.01	-5.52
3/19/2025	9:45:00	18.47	4.63	9.57	11.32	15.30	5.30	9.42	10.11	-10.00	-5.88	-5.19
3/19/2025	10:00:00	13.88	5.68	7.75	7.23	14.82	5.33	9.22	10.28	-9.49	-5.60	-4.54
3/19/2025	10:15:00	14.62	6.20	8.33	7.63	15.19	5.61	8.76	9.37	-9.58	-6.43	-5.81
3/19/2025	10:30:00	15.62	7.65	8.25	5.98	16.02	6.09	8.64	8.22	-9.93	-7.37	-7.80
3/19/2025	10:45:00	18.72	5.48	9.70	7.17	16.26	5.93	8.72	7.87	-10.33	-7.54	-8.39
3/19/2025	11:00:00	25.24	5.50	10.18	6.07	17.61	6.10	8.84	6.82	-11.51	-8.77	-10.80
3/19/2025	11:15:00	16.82	6.22	10.02	6.13	18.20	6.21	9.30	6.60	-11.99	-8.91	-11.60
3/19/2025	11:30:00	13.65	7.85	8.90	5.56	18.01	6.54	9.41	6.18	-11.47	-8.60	-11.82
3/19/2025	11:45:00	17.67	4.90	10.08	8.90	18.42	5.99	9.78	6.77	-12.43	-8.64	-11.65
3/19/2025	12:00:00	20.00	5.14	9.10		18.67	5.92	9.66	6.67	-12.75	-9.02	-12.01
3/19/2025	12:15:00	12.96	4.78	9.65	6.95	16.22	5.78	9.55	6.89	-10.44	-6.67	-9.33
3/19/2025	12:30:00	15.20	5.04	8.60	8.04	15.90	5.54	9.27	7.36	-10.35	-6.63	-8.53
3/19/2025	12:45:00	15.40	4.51	8.67	7.02	16.25	4.87	9.22	7.73	-11.37	-7.03	-8.52
3/19/2025	13:00:00	17.49	6.82	9.57	5.75	16.21	5.26	9.12	6.94	-10.95	-7.09	-9.27
3/19/2025	13:15:00	15.14	6.73	8.13	6.08	15.24	5.58	8.93	6.77	-9.66	-6.31	-8.47
3/19/2025	13:30:00	12.03	6.34	8.56	7.76	15.05	5.89	8.71	6.93	-9.16	-6.35	-8.12
3/19/2025	13:45:00	14.85	8.09	7.57	8.39	14.98	6.50	8.50	7.00	-8.48	-6.48	-7.98
3/19/2025	14:00:00	13.39	3.77	8.48	10.39	14.58	6.35	8.46	7.67	-8.23	-6.11	-6.90
3/19/2025	14:15:00	18.58	4.45	7.76	6.73	14.80	5.88	8.10	7.87	-8.92	-6.69	-6.93
3/19/2025	14:30:00	12.38	6.71	8.54	9.84	14.24	5.87	8.18	8.62	-8.37	-6.06	-5.62
3/19/2025	14:45:00	18.06	5.05	8.02	9.64	15.45	5.61	8.08	9.00	-9.84	-7.37	-6.45
3/19/2025	15:00:00	15.09	5.34	8.54	11.54	15.50	5.06	8.27	9.63	-10.43	-7.23	-5.87
3/19/2025	15:15:00	14.83	5.52	9.42	8.64	15.79	5.41	8.46	9.28	-10.37	-7.33	-6.51
3/19/2025	15:30:00	16.13	5.62	8.69	11.16	15.30	5.65	8.64	10.16	-9.65	-6.66	-5.13
3/19/2025	15:45:00	19.40	7.08	10.07	8.08	16.70	5.72	8.95	9.81	-10.98	-7.76	-6.89
3/19/2025	16:00:00	19.03	4.57	9.65	14.97	16.90	5.63	9.27	10.88	-11.27	-7.62	-6.02
3/19/2025	16:15:00	15.26	5.12	11.77	8.11	16.93	5.58	9.92	10.19	-11.35	-7.01	-6.74
3/19/2025	16:30:00	19.87	4.77	7.15	8.59	17.94	5.43	9.46	10.18	-12.51	-8.47	-7.76
3/19/2025	16:45:00	21.05	8.01	8.13	11.33	18.92	5.91	9.35	10.22	-13.01	-9.57	-8.71
3/19/2025	17:00:00	15.47	6.84	7.19	5.00	18.14	5.86	8.78	9.60	-12.27	-9.36	-8.54
3/19/2025	17:15:00	13.83	5.82	8.18	5.51	17.10	6.11	8.48	7.71	-10.98	-8.61	-9.39
3/19/2025	17:30:00	21.68	5.98	8.79	4.97	18.38	6.28	7.89	7.08	-12.09	-10.49	-11.30

			Turbid	ity (NTU)			Rolling Average	Turbidity (NTU)		Difference (NTU)			
Date	Time	Ambient	N3SB	ТВ4	9SB	Ambient	N3SB	TB4	9SB	N3SB - Ambient	TB4 - Ambient	9SB - Ambient	
3/20/2025	7:00:00	8.92		7.52	5.39	8.92		7.52	5.39		-1.41	-3.53	
3/20/2025	7:15:00	10.42	3.60	9.08	6.61	9.67	3.60	8.30	6.00	-6.07	-1.37	-3.67	
3/20/2025	7:30:00	9.27	5.53	11.00	6.81	9.54	4.57	9.20	6.27	-4.97	-0.34	-3.27	
3/20/2025	7:45:00	9.60	4.42	8.27	5.62	9.55	4.52	8.96	6.11	-5.04	-0.59	-3.44	
3/20/2025	8:00:00	7.68	7.08	8.07	7.45	9.18	5.16	8.79	6.38	-4.02	-0.39	-2.80	
3/20/2025	8:15:00	8.49	2.46	9.59	5.46	9.09	4.62	9.20	6.39	-4.48	0.11	-2.70	
3/20/2025	8:30:00	7.82	2.04	8.21	5.80	8.57	4.31	9.03	6.23	-4.27	0.45	-2.34	
3/20/2025	8:45:00	10.21	2.05	9.33	5.63	8.76	3.61	8.70	6.00	-5.15	-0.07	-2.77	
3/20/2025	9:00:00	9.03	4.52	8.79	6.52	8.65	3.63	8.80	6.17	-5.02	0.15	-2.47	
3/20/2025	9:15:00	10.82	3.96	8.31	6.02	9.27	3.00	8.85	5.89	-6.27	-0.43	-3.39	
3/20/2025	9:30:00	9.17	2.89	8.34	5.82	9.41	3.09	8.60	5.96	-6.32	-0.81	-3.45	
3/20/2025	9:45:00	12.90	2.93	8.23	6.78	10.43	3.27	8.60	6.16	-7.16	-1.82	-4.27	
3/20/2025	10:00:00	15.92	4.69	7.61		11.57	3.80	8.26	6.29	-7.77	-3.31	-5.28	
3/20/2025	10:15:00	13.57	6.14	7.47	6.54	12.48	4.12	7.99	6.29	-8.36	-4.48	-6.19	
3/20/2025	10:30:00	14.49	4.99	10.22	5.15	13.21	4.33	8.37	6.07	-8.89	-4.84	-7.14	
3/20/2025	10:45:00	8.14	4.85	8.35	6.82	13.01	4.72	8.37	6.32	-8.29	-4.63	-6.68	
3/20/2025	11:00:00	10.77	4.15	8.64	5.91	12.58	4.96	8.46	6.10	-7.62	-4.12	-6.48	
3/20/2025	11:15:00	8.98	5.55	9.63	5.76	11.19	5.14	8.86	6.03	-6.06	-2.33	-5.16	
3/20/2025	11:30:00	7.64	6.69	11.33	5.70	10.00	5.25	9.63	5.87	-4.76	-0.37	-4.14	
3/20/2025	11:45:00	8.88	4.00	12.16	4.87	8.88	5.05	10.02	5.81	-3.83	1.14	-3.07	
3/20/2025	12:00:00	7.58	4.62	11.36	4.68	8.77	5.00	10.62	5.38	-3.77	1.85	-3.39	
3/20/2025	12:15:00	6.33	5.40	11.04	6.58	7.88	5.25	11.10	5.52	-2.63	3.22	-2.37	
3/20/2025	12:30:00	6.35	4.90	13.62	5.74	7.36	5.12	11.90	5.51	-2.23	4.55	-1.84	
3/20/2025	12:45:00	6.49	4.32	12.17	10.70	7.13	4.65	12.07	6.51	-2.48	4.94	-0.61	
3/20/2025	13:00:00	7.85	4.99	11.66	8.85	6.92	4.85	11.97	7.31	-2.07	5.05	0.39	
3/20/2025	13:15:00	6.83	4.16	11.83	15.52	6.77	4.75	12.06	9.48	-2.01	5.30	2.71	
3/20/2025	13:30:00	6.19	4.13	12.20	15.48	6.74	4.50	12.30	11.26	-2.24	5.55	4.52	
3/20/2025	13:45:00	7.69	5.05	11.99	17.09	7.01	4.53	11.97	13.53	-2.48	4.96	6.52	
3/20/2025	14:00:00	7.31	3.05	12.63	25.28	7.17	4.28	12.06	16.45	-2.90	4.89	9.27	
3/20/2025	14:15:00	6.88	3.86	12.50	24.11	6.98 6.97	4.05	12.23	19.50	-2.93	5.25	12.52	
3/20/2025 3/20/2025	14:30:00 14:45:00		3.63	10.01	34.56	7.01	3.94 3.99	11.87 11.53	23.31	-3.02 -3.02	4.90 4.53	16.34 17.23	
3/20/2025	14:45:00	6.38	4.36	10.53	20.14	6.89	3.99	11.53	24.24	-3.02 -3.22	4.53	17.23	
3/20/2025		7.11 9.51	3.44 3.11	10.42 10.75	17.07	7.33		10.84	24.23	-3.22 -3.65	4.33 3.51		
3/20/2025	15:15:00 15:30:00	9.51	3.11	10.75	27.32	7.33	3.68 3.61	10.84	23.97	-3.65 -4.19	2.62	16.64	
3/20/2025	15:30:00	9.20	4.05	10.38	27.32	7.79 8.33	3.61	10.42	21.45	-4.19 -4.64	2.62	16.98 13.12	
-, -,										-4.64 -5.13			
3/20/2025 3/20/2025	16:00:00 16:15:00	8.26 8.15	3.83 4.17	9.42 10.65	11.75 13.78	8.71 8.92	3.58 3.73	10.22 10.27	19.36 18.53	-5.13 -5.19	1.51 1.35	10.65 9.62	
3/20/2025	16:15:00			+		8.92 8.76	3.73	10.27	18.53	-5.19 -4.84	2.90	9.62 8.34	
3/20/2025	16:30:00	8.71	4.04	17.68	11.33	8.76	4.20	12.18	17.09	-4.84 -4.54	3.43	8.34 6.05	
3/20/2025	17:00:00	9.13 8.62	4.91 3.71	12.99 15.51	15.84 11.59	8.74 8.57	4.20	12.18	12.86	-4.54 -4.44	3.43 4.68	4.28	
3/20/2025	17:00:00	10.24	2.74	12.59	11.59	8.57 8.97	3.91	13.25	12.86	-4.44 -5.06	4.68	4.28 3.91	
3/20/2025	17:15:00					8.97 8.58	3.91	13.88	12.88	-5.06 -4.88	6.00	3.91	
5/20/2025	17:30:00	6.18	3.11	14.12	9.75	8.58	3.70	14.58	12.07	-4.88	0.00	3.50	

Date	Time		Turbidit	y (NTU)			Rolling Averag	e Turbidity (NTU)			Difference (NTU)	
		Ambient	N3SB	TB4	9SB	Ambient	N3SB	TB4	9SB	N3SB - Ambient	TB4 - Ambient	9SB - Ambient
3/21/2025	7:00:00	15.44	7.35	9.84	6.37	15.44	7.35	9.84	6.37	-8.10	-5.61	-9.08
3/21/2025	7:15:00	14.38		7.07	6.10	14.91	7.35	8.45	6.23	-7.57	-6.46	-8.68
3/21/2025	7:30:00	12.89	4.78	10.09	7.04	14.24	6.06	9.00	6.50	-8.18	-5.24	-7.74
3/21/2025	7:45:00	15.21	5.00	9.42	7.46	14.48	5.71	9.10	6.74	-8.77	-5.38	-7.74
3/21/2025	8:00:00	13.28	5.32	8.28	8.01	14.24	5.61	8.94	6.99	-8.63	-5.30	-7.25
3/21/2025	8:15:00	14.09	4.99	8.15	5.91	13.97	5.02	8.60	6.90	-8.95	-5.37	-7.07
3/21/2025	8:30:00	10.71	5.15	8.31	7.41	13.23	5.05	8.85	7.17	-8.19	-4.38	-6.07
3/21/2025	8:45:00	13.94	7.06	8.64	5.22	13.44	5.51	8.56	6.80	-7.94	-4.89	-6.64
3/21/2025	9:00:00	11.02	2.76	8.70	5.37	12.61	5.06	8.42	6.38	-7.55	-4.19	-6.23
3/21/2025	9:15:00	13.15	1.86	8.51	5.92	12.58	4.36	8.46	5.96	-8.22	-4.12	-6.62
3/21/2025	9:30:00	15.33	4.39	8.07	5.73	12.83	4.24	8.44	5.93	-8.59	-4.39	-6.90
3/21/2025	9:45:00	12.40	3.15	8.44	5.76	13.17	3.84	8.47	5.60	-9.32	-4.70	-7.57
3/21/2025	10:00:00	12.01	3.14	7.59	5.53	12.78	3.06	8.26	5.66	-9.72	-4.52	-7.12
3/21/2025	10:15:00	12.24	2.21		6.50	13.03	2.95	8.15	5.89	-10.07	-4.87	-7.14
3/21/2025	10:30:00	13.13	4.33	7.46	9.38	13.02	3.44	7.89	6.58	-9.58	-5.13	-6.44
3/21/2025	10:45:00	13.08	2.53	8.45	7.32	12.57	3.07	7.99	6.90	-9.50	-4.58	-5.67
3/21/2025	11:00:00	14.05	2.66	10.30	7.98	12.90	2.97	8.45	7.34	-9.93	-4.45	-5.56
3/21/2025	11:15:00	18.01	4.86	8.77	5.11	14.10	3.32	8.74	7.26	-10.79	-5.36	-6.85
3/21/2025	11:30:00	17.63	4.89	11.87	5.32	15.18	3.85	9.37	7.02	-11.33	-5.81	-8.16
3/21/2025	11:45:00	15.92	7.74	9.26	5.65	15.74	4.54	9.73	6.27	-11.20	-6.01	-9.47
3/21/2025	12:00:00	15.90	6.78	10.62	7.08	16.30	5.38	10.16	6.23	-10.92	-6.14	-10.08
3/21/2025	12:15:00	16.56	11.33	9.72	5.60	16.81	7.12	10.05	5.75	-9.69	-6.76	-11.05
3/21/2025	12:30:00	14.95	11.60		9.01	16.19	8.47	10.37	6.53	-7.72	-5.82	-9.66
3/21/2025	12:45:00	14.69	14.47	8.76	7.76	15.60	10.38	9.59	7.02	-5.22	-6.01	-8.58
3/21/2025	13:00:00	14.97	5.54	9.95	9.96	15.41	9.94	9.76	7.88	-5.47	-5.65	-7.53
3/21/2025	13:15:00	14.65	6.98	9.03	9.73	15.16	9.98	9.37	8.41	-5.18	-5.80	-6.75
3/21/2025	13:30:00	13.96	6.87	13.33	11.15	14.64	9.09	10.27	9.52	-5.55	-4.37	-5.12
3/21/2025	13:45:00	17.41	8.93	14.99	7.24	15.14	8.56	11.21	9.17	-6.58	-3.92	-5.97
3/21/2025	14:00:00	13.44		11.27	7.05	14.89	7.08	11.72	9.03	-7.81	-3.17	-5.86
3/21/2025	14:15:00	13.09	6.19	9.65	7.59	14.51	7.24	11.66	8.55	-7.27	-2.85	-5.96
3/21/2025	14:30:00	11.39	5.30	8.75	6.52	13.86	6.82	11.60	7.91	-7.04	-2.26	-5.95
3/21/2025	14:45:00	14.56	9.41	10.90	6.98	13.98	7.46	11.12	7.08	-6.52	-2.86	-6.90
3/21/2025	15:00:00	13.46	5.46	16.56	10.35	13.19	6.59	11.43	7.70	-6.60	-1.76	-5.49
3/21/2025	15:15:00	12.53	5.87	11.71	6.53	13.01	6.45	11.52	7.59	-6.56	-1.49	-5.41
3/21/2025	15:30:00	18.50	5.14	10.01	10.47	14.09	6.24	11.59	8.17	-7.85	-2.50	-5.92