

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

PERIOD: April 26 to April 30, 2021

Date of Report: May 05, 2021

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Prepared by

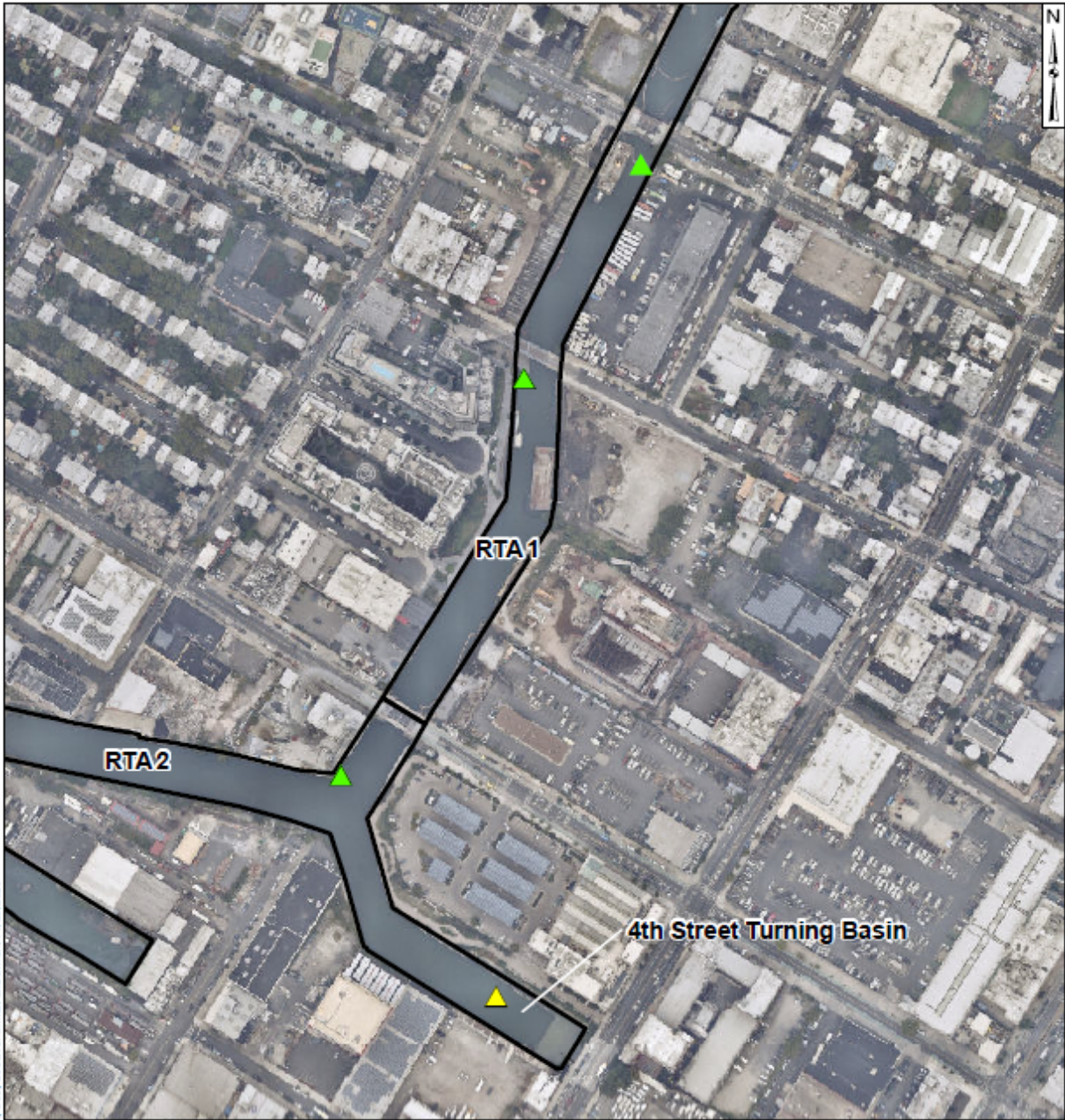
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1. SCOPE OF MONITORING

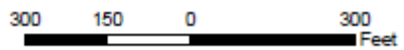
The following report summarizes water quality monitoring data collected during the week of April 26, 2021. In accordance with the Water Quality Monitoring Plan for In-waterway Construction Activities (WQMP) three turbidity buoys were deployed to monitor turbidity at the start of dredging between Carroll 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. The Union Street Sentinel Buoy was taken out of service and the remaining three buoys were re-calibrated on April 22nd, 2021 as in-waterway construction activities transitioned to installation of the cutoff wall at the First Street turning Basin between the Carroll Street and Third Street Bridges. 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 April 26. 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 or the numerical trigger criterion were observed during the reporting period. An exceedance of the qualitative action criterion was observed on April 27, 2021 due to the presence of sheen outside of RTA1 attributed to in-waterway construction activities.

- **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.

No exceedances to the quantitative trigger or action level criteria were observed during this reporting period. An exceedance of the qualitative action criterion was observed on April 27, 2021

due to the presence of sheen outside of RTA1 attributed to in-waterway construction activities. This sheen was a result of a release of inherently biodegradable hydraulic mineral oil that overwhelmed secondary containment. The release was reported to the New York State Department of Environmental Conservation and the National Spill Response Center. Clean-up operations were performed upon discovery of the spill on the morning of April 27th by Cashman and a 3rd party emergency spill response contractor, ACV Environmental, in coordination with EPA. Additional information on the hydraulic oil spill and response will be provided in a forthcoming incident report.

3. TURBIDITY BUOY DATA

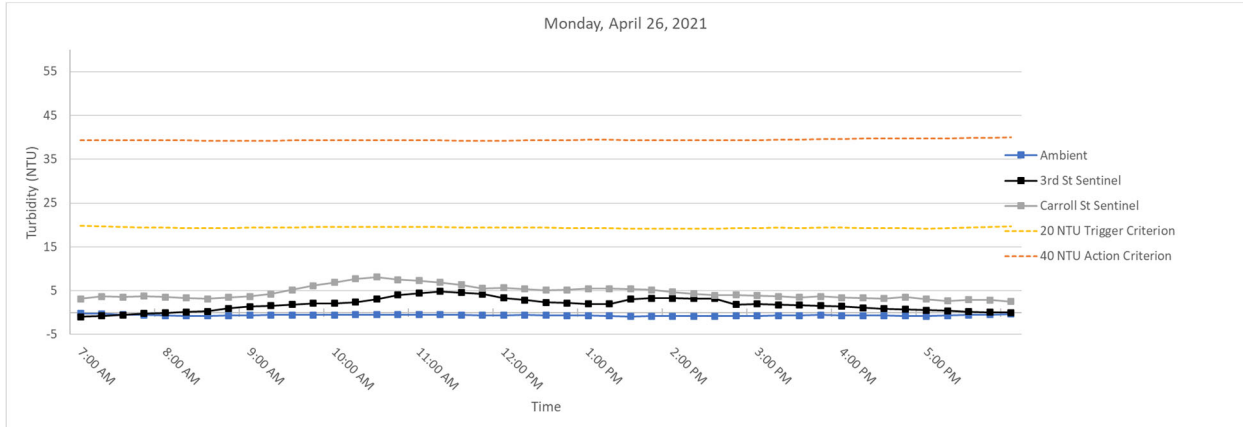
The following section provides turbidity data for the sentinel and ambient turbidity buoys from 7 AM to 6 PM from April 26 to April 30, 2021. No exceedances of the quantitative action or trigger level criteria occurred during this reporting period. **Table 1** below provides a summary of the turbidity 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	3rd St - Ambient	Carroll St - Ambient
Monday April 26, 2021	2.40	5.18	5.32	8.59
Tuesday April 27, 2021	1.88	5.78	5.30	9.29
Wednesday April 28, 2021	1.93	6.08	5.37	9.30
Thursday April 29, 2021	1.94	5.65	4.70	11.21
Friday April 30, 2021	1.50	5.46	2.70	7.30

3.1 Monday, April 26, 2021

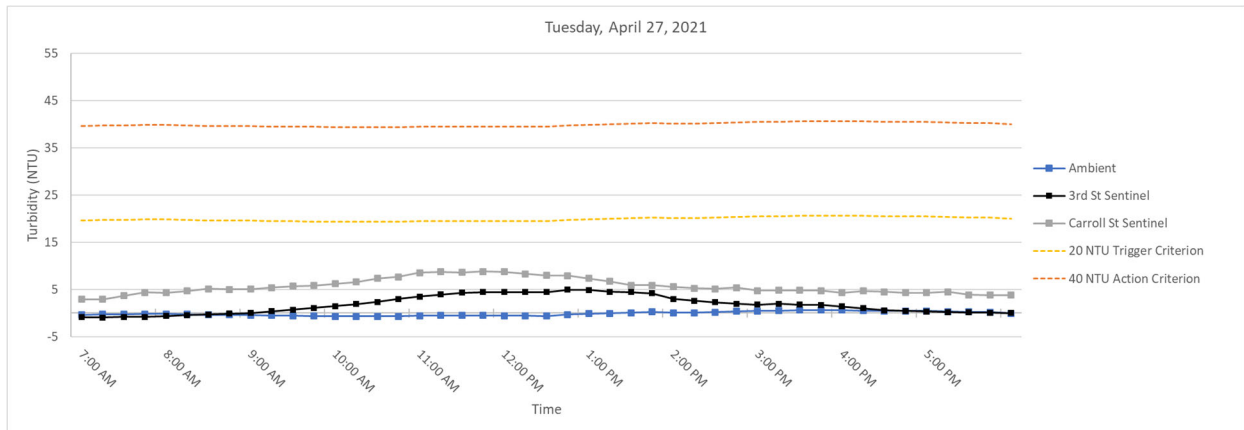
Figure 2. Hourly rolling average turbidity readings on Monday, April 26, 2021 from 7 AM to 6 PM.



Note: On April 26, 2021, no spikes in turbidity were observed above 10 NTU.

3.2 Tuesday, April 27, 2021

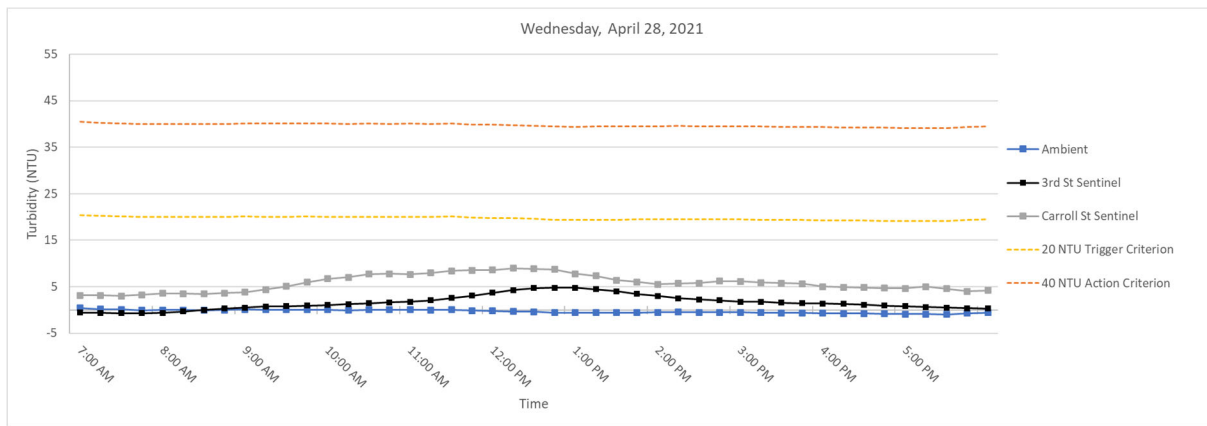
Figure 3. Hourly rolling average turbidity readings on Tuesday, April 27, 2021 from 7 AM to 6 PM.



Note: On April 27, 2021, no spikes in turbidity were observed above 10 NTU.

3.3 Wednesday, April 28, 2021

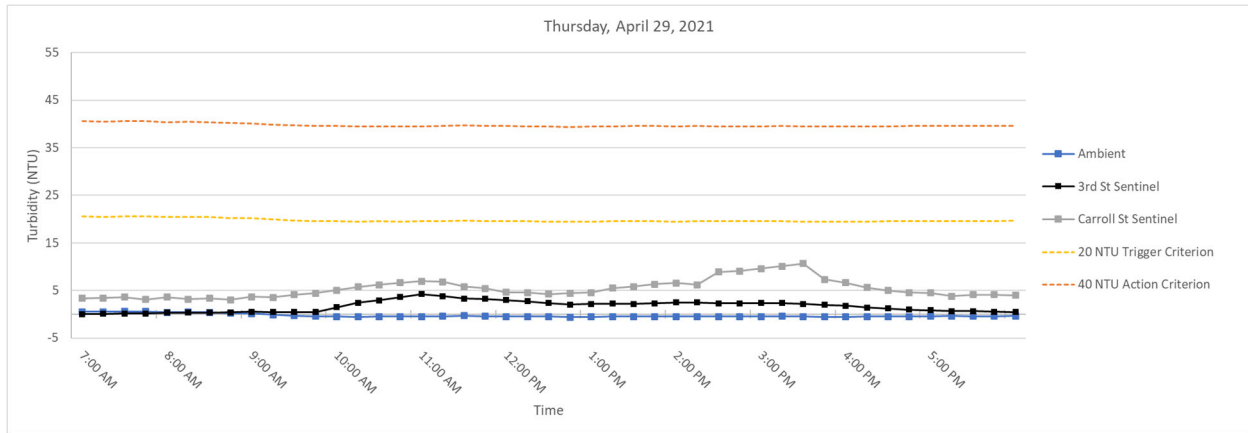
Figure 4. Hourly rolling average turbidity readings on Wednesday, April 28, 2021 from 7 AM to 6 PM.



Note: On April 28, 2021, no spikes in turbidity were observed above 10 NTU.

3.4 Thursday, April 29, 2021

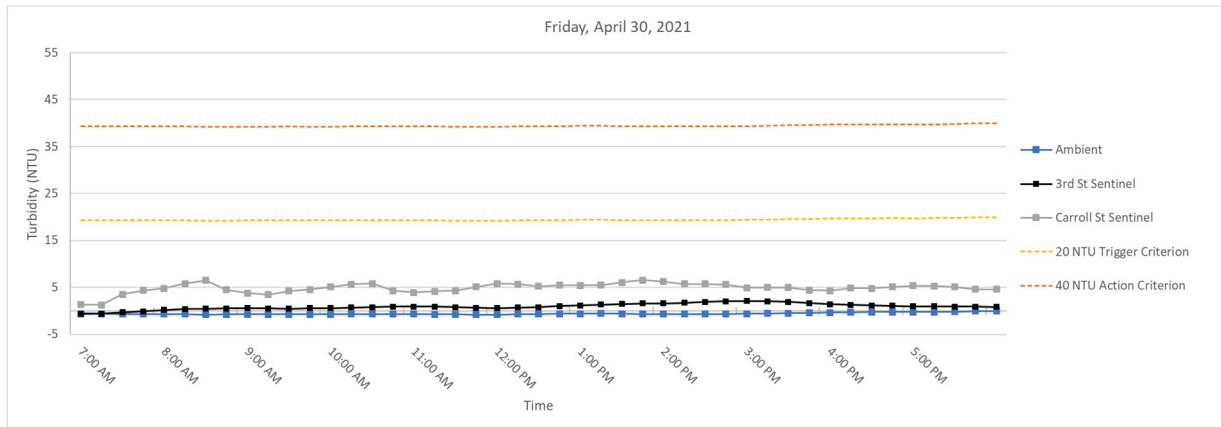
Figure 5. Hourly rolling average turbidity readings on Thursday, April 29, 2021 from 7 AM to 6 PM.



Note: On April 29, 2021 no spikes in turbidity were observed above 10 NTU.

3.5 Friday, April 30, 2021

Figure 6. Hourly rolling average turbidity readings on Friday, April 30, 2021 from 7 AM to 6 PM.



Note: On April 30, 2021 no spikes in turbidity were observed above 10 NTU.

SUMMARY OF VISUAL OBSERVATIONS

Sheen was observed above background conditions on April 26, 2021 throughout RTA1 and in some portions of RTA2 as result of the release of inherently biodegradable hydraulic mineral oil. Additional information on the release will be provided in a forthcoming incident report.

APPENDIX A
Turbidity Data Tables

Monday, April 26, 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	-0.33	-0.49	4.35	N/A	-0.18	-0.94	3.16	--	-0.76	3.34	--
7:15:00	-0.49	-0.17	4.32	N/A	-0.28	-0.74	3.70	--	-0.46	3.98	--
7:30:00	-0.99	-0.13	2.52	N/A	-0.44	-0.51	3.52	--	-0.07	3.96	--
7:45:00	-0.77	0.44	3.36	N/A	-0.57	-0.22	3.78	--	0.35	4.36	--
8:00:00	-0.64	0.11	3.21	N/A	-0.64	-0.05	3.55	--	0.60	4.20	--
8:15:00	-0.83	0.33	3.22	N/A	-0.74	0.12	3.33	--	0.86	4.07	--
8:30:00	-0.57	0.73	3.33	N/A	-0.76	0.30	3.13	--	1.06	3.89	--
8:45:00	-0.48	3.08	4.41	N/A	-0.66	0.94	3.51	--	1.60	4.16	--
9:00:00	-0.49	2.53	4.33	N/A	-0.60	1.36	3.70	--	1.96	4.30	--
9:15:00	-0.49	1.27	5.9	N/A	-0.57	1.59	4.24	--	2.16	4.81	--
9:30:00	-0.68	1.55	7.94	N/A	-0.54	1.83	5.18	--	2.37	5.72	--
9:45:00	-0.41	2.12	8.09	N/A	-0.51	2.11	6.13	--	2.62	6.64	--
10:00:00	-0.53	2.97	8.16	N/A	-0.52	2.09	6.88	--	2.61	7.40	--
10:15:00	-0.2	4.04	8.39	N/A	-0.46	2.39	7.70	--	2.85	8.16	--
10:30:00	-0.62	4.62	7.94	N/A	-0.49	3.06	8.10	--	3.55	8.59	--
10:45:00	-0.51	6.35	4.94	N/A	-0.45	4.02	7.50	--	4.47	7.96	--
11:00:00	-0.56	4.13	7.04	N/A	-0.48	4.42	7.29	--	4.91	7.78	--
11:15:00	-0.6	4.96	6.13	N/A	-0.50	4.82	6.89	--	5.32	7.39	--
11:30:00	-0.5	2.98	5.64	N/A	-0.56	4.61	6.34	--	5.17	6.90	--
11:45:00	-0.78	2.69	3.96	N/A	-0.59	4.22	5.54	--	4.81	6.13	--
12:00:00	-0.49	1.87	5.66	N/A	-0.59	3.33	5.69	--	3.91	6.27	--
12:15:00	-0.26	1.9	5.62	N/A	-0.53	2.88	5.40	--	3.41	5.93	--
12:30:00	-0.97	2.25	4.67	N/A	-0.60	2.34	5.11	--	2.94	5.71	--
12:45:00	-0.86	2.22	6.04	N/A	-0.67	2.19	5.19	--	2.86	5.86	--
13:00:00	-0.79	1.71	5.46	N/A	-0.67	1.99	5.49	--	2.66	6.16	--
13:15:00	-0.7	1.86	5.39	N/A	-0.72	1.99	5.44	--	2.70	6.15	--
13:30:00	-1.1	7.37	5.35	N/A	-0.88	3.08	5.38	--	3.97	6.27	--
13:45:00	-0.56	--	3.54	N/A	-0.80	3.29	5.16	--	4.09	5.96	--
14:00:00	-0.99	2.16	3.97	N/A	-0.83	3.28	4.74	--	4.10	5.57	--
14:15:00	-0.71	1.4	3.31	N/A	-0.81	3.20	4.31	--	4.01	5.12	--
14:30:00	-0.79	1.89	3.51	N/A	-0.83	3.21	3.94	--	4.04	4.77	--
14:45:00	-0.68	--	5.74	N/A	-0.75	1.82	4.01	--	2.56	4.76	--
15:00:00	-0.49	2.41	2.96	N/A	-0.73	1.97	3.90	--	2.70	4.63	--
15:15:00	-0.61	1.55	3.01	N/A	-0.66	1.81	3.71	--	2.47	4.36	--
15:30:00	-0.91	1.01	2.37	N/A	-0.70	1.72	3.52	--	2.41	4.21	--
15:45:00	-0.09	1.34	4.37	N/A	-0.56	1.58	3.69	--	2.13	4.25	--
16:00:00	-1.12	0.84	4.45	N/A	-0.64	1.43	3.43	--	2.07	4.08	--
16:15:00	-0.78	0.89	2.59	N/A	-0.70	1.13	3.36	--	1.83	4.06	--
16:30:00	-0.55	0.31	2.23	N/A	-0.69	0.88	3.20	--	1.57	3.89	--
16:45:00	-1.04	0.39	3.98	N/A	-0.72	0.75	3.52	--	1.47	4.24	--
17:00:00	-0.65	0.38	2	N/A	-0.83	0.56	3.05	--	1.39	3.88	--
17:15:00	-0.46	0.09	2.6	N/A	-0.70	0.41	2.68	--	1.11	3.38	--
17:30:00	-0.01	-0.17	3.84	N/A	-0.54	0.20	2.93	--	0.74	3.47	--
17:45:00	-0.27	-0.18	1.92	N/A	-0.49	0.10	2.87	--	0.59	3.35	--
18:00:00	-0.42	-0.23	2.14	N/A	-0.36	-0.02	2.50	--	0.34	2.86	--

Tuesday, April 27, 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	-0.2	-0.93	4.33	N/A	-0.39	-0.89	2.94	--	-0.50	3.33	--
7:15:00	0.33	-0.85	3.1	N/A	-0.24	-0.89	2.93	--	-0.65	3.17	--
7:30:00	-0.37	-0.59	5.43	N/A	-0.26	-0.83	3.67	--	-0.57	3.93	--
7:45:00	-0.16	-0.35	5.41	N/A	-0.16	-0.77	4.40	--	-0.61	4.56	--
8:00:00	-0.56	-0.34	3.52	N/A	-0.19	-0.61	4.36	--	-0.42	4.55	--
8:15:00	-0.41	-0.08	5.92	N/A	-0.23	-0.44	4.68	--	-0.21	4.91	--
8:30:00	--	0.02	5.32	N/A	-0.27	-0.27	5.12	--	0.11	5.50	--
8:45:00	-0.31	0.3	5.08	N/A	-0.36	-0.09	5.05	--	0.27	5.41	--
9:00:00	-0.45	0.32	5.53	N/A	-0.43	0.04	5.07	--	0.48	5.51	--
9:15:00	-0.83	1.48	5.32	N/A	-0.50	0.41	5.43	--	0.91	5.93	--
9:30:00	-0.58	1.5	7.43	N/A	-0.54	0.72	5.74	--	1.27	6.28	--
9:45:00	-0.74	1.89	5.91	N/A	-0.58	1.10	5.85	--	1.68	6.44	--
10:00:00	-0.74	2.09	6.93	N/A	-0.67	1.46	6.22	--	2.12	6.89	--
10:15:00	-0.47	2.77	7.53	N/A	-0.67	1.95	6.62	--	2.62	7.30	--
10:30:00	-0.72	3.61	8.95	N/A	-0.65	2.37	7.35	--	3.02	8.00	--
10:45:00	-0.56	4.6	9.21	N/A	-0.65	2.99	7.71	--	3.64	8.35	--
11:00:00	-0.27	4.48	10.28	N/A	-0.55	3.51	8.58	--	4.06	9.13	--
11:15:00	-0.49	4.27	7.69	N/A	-0.50	3.95	8.73	--	4.45	9.23	--
11:30:00	-0.37	4.72	7.16	N/A	-0.48	4.34	8.66	--	4.82	9.14	--
11:45:00	-0.84	4.33	9.6	N/A	-0.51	4.48	8.79	--	4.99	9.29	--
12:00:00	-0.62	4.53	9.07	N/A	-0.52	4.47	8.76	--	4.98	9.28	--
12:15:00	-0.4	4.44	8	N/A	-0.54	4.46	8.30	--	5.00	8.85	--
12:30:00	-0.67	4.14	6.14	N/A	-0.58	4.43	7.99	--	5.01	8.57	--
12:45:00	1	7.51	6.89	N/A	-0.31	4.99	7.94	--	5.30	8.25	--
13:00:00	0.13	3.72	6.8	N/A	-0.11	4.87	7.38	--	4.98	7.49	--
13:15:00	-0.16	2.71	5.79	N/A	-0.02	4.50	6.72	--	4.52	6.74	--
13:30:00	0	4.04	4.02	N/A	0.06	4.42	5.93	--	4.36	5.87	--
13:45:00	0.42	2.88	6	N/A	0.28	4.17	5.90	--	3.89	5.62	--
14:00:00	--	1.73	5.39	N/A	0.10	3.02	5.60	--	2.92	5.50	--
14:15:00	0.03	1.88	5.21	N/A	0.07	2.65	5.28	--	2.58	5.21	--
14:30:00	0.38	1.02	5.17	N/A	0.21	2.31	5.16	--	2.10	4.95	--
14:45:00	0.82	2.27	5.11	N/A	0.41	1.96	5.38	--	1.54	4.96	--
15:00:00	0.57	2.2	3.1	N/A	0.45	1.82	4.80	--	1.37	4.35	--
15:15:00	0.86	2.48	5.58	N/A	0.53	1.97	4.83	--	1.44	4.30	--
15:30:00	0.67	0.88	5.15	N/A	0.66	1.77	4.82	--	1.11	4.16	--
15:45:00	0.39	0.93	4.81	N/A	0.66	1.75	4.75	--	1.09	4.09	--
16:00:00	0.67	0.62	3.04	N/A	0.63	1.42	4.34	--	0.79	3.70	--
16:15:00	0.21	0.41	5.01	N/A	0.56	1.06	4.72	--	0.50	4.16	--
16:30:00	0.38	0.16	4.55	N/A	0.46	0.60	4.51	--	0.14	4.05	--
16:45:00	0.58	0.3	4.18	N/A	0.45	0.48	4.32	--	0.04	3.87	--
17:00:00	0.36	0.12	4.72	N/A	0.44	0.32	4.30	--	-0.12	3.86	--
17:15:00	0.25	0.22	4.02	N/A	0.36	0.24	4.50	--	-0.11	4.14	--
17:30:00	-0.17	0.08	1.94	N/A	0.28	0.18	3.88	--	-0.10	3.60	--
17:45:00	-0.03	-0.19	4.23	N/A	0.20	0.11	3.82	--	-0.09	3.62	--
18:00:00	-0.52	-0.14	4.12	N/A	-0.02	0.02	3.81	--	0.04	3.83	--

Wednesday, April 28, 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	0.12	-0.92	3.62	N/A	0.43	-0.59	3.16	--	-1.01	2.73	--
7:15:00	-0.06	-0.82	3.8	N/A	0.22	-0.64	3.18	--	-0.86	2.95	--
7:30:00	--	-0.79	2.59	N/A	0.12	-0.69	3.01	--	-0.81	2.89	--
7:45:00	-0.33	-0.32	4.72	N/A	-0.05	-0.66	3.27	--	-0.60	3.32	--
8:00:00	0.31	-0.19	3.2	N/A	0.01	-0.61	3.59	--	-0.62	3.58	--
8:15:00	0.02	0.55	3.35	N/A	-0.02	-0.31	3.53	--	-0.30	3.55	--
8:30:00	-0.12	0.87	3.36	N/A	-0.03	0.02	3.44	--	0.05	3.47	--
8:45:00	0.07	0.62	3.59	N/A	-0.01	0.31	3.64	--	0.32	3.65	--
9:00:00	0.29	0.71	5.76	N/A	0.11	0.51	3.85	--	0.40	3.74	--
9:15:00	--	0.93	5.91	N/A	0.07	0.74	4.39	--	0.67	4.33	--
9:30:00	-0.04	1.01	6.91	N/A	0.05	0.83	5.11	--	0.78	5.06	--
9:45:00	-0.02	1.48	7.61	N/A	0.08	0.95	5.96	--	0.88	5.88	--
10:00:00	0.06	1.29	7.37	N/A	0.07	1.08	6.71	--	1.01	6.64	--
10:15:00	-0.12	1.6	7.46	N/A	-0.03	1.26	7.05	--	1.29	7.08	--
10:30:00	0.36	1.86	9.41	N/A	0.05	1.45	7.75	--	1.40	7.70	--
10:45:00	-0.08	1.86	7	N/A	0.04	1.62	7.77	--	1.58	7.73	--
11:00:00	--	2.08	7.09	N/A	0.06	1.74	7.67	--	1.68	7.61	--
11:15:00	-0.21	3.15	9.01	N/A	-0.01	2.11	7.99	--	2.12	8.01	--
11:30:00	0.32	4.09	9.6	N/A	0.10	2.61	8.42	--	2.51	8.32	--
11:45:00	-0.4	4.29	10.14	N/A	-0.09	3.09	8.57	--	3.19	8.66	--
12:00:00	-0.5	4.96	7.24	N/A	-0.20	3.71	8.62	--	3.91	8.81	--
12:15:00	-0.68	4.81	9.06	N/A	-0.29	4.26	9.01	--	4.55	9.30	--
12:30:00	-0.61	5.55	8.15	N/A	-0.37	4.74	8.84	--	5.11	9.21	--
12:45:00	-0.65	4.38	9.01	N/A	-0.57	4.80	8.72	--	5.37	9.29	--
13:00:00	-0.49	4.18	5.47	N/A	-0.59	4.78	7.79	--	5.36	8.37	--
13:15:00	-0.46	3.32	5.16	N/A	-0.58	4.45	7.37	--	5.03	7.95	--
13:30:00	-0.59	2.67	4.39	N/A	-0.56	4.02	6.44	--	4.58	7.00	--
13:45:00	-0.56	2.8	6.22	N/A	-0.55	3.47	6.05	--	4.02	6.60	--
14:00:00	-0.33	1.99	6.48	N/A	-0.49	2.99	5.54	--	3.48	6.03	--
14:15:00	-0.34	1.97	6.22	N/A	-0.46	2.55	5.69	--	3.01	6.15	--
14:30:00	-0.63	1.99	5.77	N/A	-0.49	2.28	5.82	--	2.77	6.31	--
14:45:00	-0.64	1.58	6.52	N/A	-0.50	2.07	6.24	--	2.57	6.74	--
15:00:00	-0.63	1.41	5.69	N/A	-0.51	1.79	6.14	--	2.30	6.65	--
15:15:00	-0.64	1.74	5.34	N/A	-0.58	1.74	5.91	--	2.31	6.48	--
15:30:00	-0.58	1.21	5.55	N/A	-0.62	1.59	5.77	--	2.21	6.40	--
15:45:00	-0.67	1.43	5.29	N/A	-0.63	1.47	5.68	--	2.11	6.31	--
16:00:00	-0.91	1.23	3.4	N/A	-0.69	1.40	5.05	--	2.09	5.74	--
16:15:00	-0.77	1.01	5	N/A	-0.71	1.32	4.92	--	2.04	5.63	--
16:30:00	-0.87	0.87	5.07	N/A	-0.76	1.15	4.86	--	1.91	5.62	--
16:45:00	-0.9	0.34	4.84	N/A	-0.82	0.98	4.72	--	1.80	5.54	--
17:00:00	-0.88	0.74	4.83	N/A	-0.87	0.84	4.63	--	1.70	5.49	--
17:15:00	-0.99	0.31	5.45	N/A	-0.88	0.65	5.04	--	1.54	5.92	--
17:30:00	-0.9	0.39	2.67	N/A	-0.91	0.53	4.57	--	1.44	5.48	--
17:45:00	0.3	0.21	2.4	N/A	-0.67	0.40	4.04	--	1.07	4.71	--
18:00:00	-0.2	-0.09	5.65	N/A	-0.53	0.31	4.20	--	0.85	4.73	--

Thursday, April 29, 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	0.36	--	4.06	N/A	0.56	0.04	3.33	--	-0.52	2.77	--
7:15:00	0.27	0.36	2.15	N/A	0.50	0.08	3.40	--	-0.42	2.90	--
7:30:00	0.72	0.3	4.14	N/A	0.60	0.13	3.59	--	-0.48	2.98	--
7:45:00	0.02	0.05	2.1	N/A	0.60	0.15	3.11	--	-0.45	2.51	--
8:00:00	0.67	0.66	5.48	N/A	0.41	0.34	3.59	--	-0.07	3.18	--
8:15:00	0.73	--	2.13	N/A	0.48	0.34	3.20	--	-0.14	2.72	--
8:30:00	-0.11	0.42	2.97	N/A	0.41	0.36	3.36	--	-0.05	2.96	--
8:45:00	-0.35	0.52	2.66	N/A	0.19	0.41	3.07	--	0.22	2.88	--
9:00:00	-0.18	0.62	5.1	N/A	0.15	0.56	3.67	--	0.40	3.52	--
9:15:00	-0.58	0.34	4.74	N/A	-0.10	0.48	3.52	--	0.57	3.62	--
9:30:00	-0.36	0.44	5.22	N/A	-0.32	0.47	4.14	--	0.78	4.45	--
9:45:00	-0.54	0.46	4.52	N/A	-0.40	0.48	4.45	--	0.88	4.85	--
10:00:00	-0.66	5.63	5.8	N/A	-0.46	1.50	5.08	--	1.96	5.54	--
10:15:00	-0.6	5.3	8.38	N/A	-0.55	2.43	5.73	--	2.98	6.28	--
10:30:00	-0.21	2.92	7.04	N/A	-0.47	2.95	6.19	--	3.42	6.67	--
10:45:00	-0.52	3.8	7.29	N/A	-0.51	3.62	6.61	--	4.13	7.11	--
11:00:00	-0.44	3.4	6.18	N/A	-0.49	4.21	6.94	--	4.70	7.42	--
11:15:00	-0.44	3.64	5.13	N/A	-0.44	3.81	6.80	--	4.25	7.25	--
11:30:00	0.01	2.76	3.39	N/A	-0.32	3.30	5.81	--	3.62	6.13	--
11:45:00	-0.74	2.52	5.12	N/A	-0.43	3.22	5.42	--	3.65	5.85	--
12:00:00	-0.72	2.5	3.2	N/A	-0.47	2.96	4.60	--	3.43	5.07	--
12:15:00	-0.55	2.26	6.08	N/A	-0.49	2.74	4.58	--	3.22	5.07	--
12:30:00	-0.46	1.79	3.27	N/A	-0.49	2.37	4.21	--	2.86	4.70	--
12:45:00	-0.56	1.25	4.47	N/A	-0.61	2.06	4.43	--	2.67	5.03	--
13:00:00	-0.58	2.97	5.76	N/A	-0.57	2.15	4.56	--	2.73	5.13	--
13:15:00	-0.27	2.75	7.9	N/A	-0.48	2.20	5.50	--	2.69	5.98	--
13:30:00	-0.43	2.18	7.77	N/A	-0.46	2.19	5.83	--	2.65	6.29	--
13:45:00	-0.51	2.23	5.58	N/A	-0.47	2.28	6.30	--	2.75	6.77	--
14:00:00	-0.74	2.34	5.79	N/A	-0.51	2.49	6.56	--	3.00	7.07	--
14:15:00	-0.3	2.76	3.77	N/A	-0.45	2.45	6.16	--	2.90	6.61	--
14:30:00	-0.44	2.08	21.59	N/A	-0.48	2.32	8.90	--	2.80	9.38	--
14:45:00	-0.43	2.19	8.78	N/A	-0.48	2.32	9.10	--	2.80	9.59	--
15:00:00	-0.52	2.35	8.14	N/A	-0.49	2.34	9.61	--	2.83	10.10	--
15:15:00	-0.46	2.28	8.1	N/A	-0.43	2.33	10.08	--	2.76	10.51	--
15:30:00	-0.71	1.9	6.86	N/A	-0.51	2.16	10.69	--	2.67	11.21	--
15:45:00	-0.45	1.05	4.6	N/A	-0.51	1.95	7.30	--	2.47	7.81	--
16:00:00	-0.57	1.25	5.57	N/A	-0.54	1.77	6.65	--	2.31	7.20	--
16:15:00	-0.28	0.7	3.15	N/A	-0.49	1.44	5.66	--	1.93	6.15	--
16:30:00	-0.36	1.16	4.66	N/A	-0.47	1.21	4.97	--	1.69	5.44	--
16:45:00	-0.62	0.67	4.72	N/A	-0.46	0.97	4.54	--	1.42	5.00	--
17:00:00	-0.32	0.55	4.35	N/A	-0.43	0.87	4.49	--	1.30	4.92	--
17:15:00	-0.34	0.32	2.26	N/A	-0.38	0.68	3.83	--	1.06	4.21	--
17:30:00	-0.5	0.61	4.72	N/A	-0.43	0.66	4.14	--	1.09	4.57	--
17:45:00	-0.31	0.59	4.61	N/A	-0.42	0.55	4.13	--	0.97	4.55	--
18:00:00	-0.34	0.31	3.91	N/A	-0.36	0.48	3.97	--	0.84	4.33	--

Friday, April 30, 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	-0.74	-0.52	1.15	N/A	-0.67	-0.63	1.32	--	0.05	1.99	--
7:15:00	-0.37	-0.33	1.4	N/A	-0.64	-0.61	1.30	--	0.03	1.94	--
7:30:00	-0.78	0.58	12.53	N/A	-0.68	-0.32	3.54	--	0.36	4.22	--
7:45:00	-0.88	0.25	5.55	N/A	-0.69	-0.12	4.37	--	0.57	5.06	--
8:00:00	-0.7	1.06	3.37	N/A	-0.69	0.21	4.80	--	0.90	5.49	--
8:15:00	-0.76	0.5	6.28	N/A	-0.70	0.41	5.83	--	1.11	6.52	--
8:30:00	-0.8	-0.01	4.86	N/A	-0.78	0.48	6.52	--	1.26	7.30	--
8:45:00	-0.73	0.71	2.37	N/A	-0.77	0.50	4.49	--	1.28	5.26	--
9:00:00	-0.75	0.54	1.96	N/A	-0.75	0.56	3.77	--	1.31	4.52	--
9:15:00	-0.67	0.71	1.82	N/A	-0.74	0.49	3.46	--	1.23	4.20	--
9:30:00	-0.71	0.41	10.21	N/A	-0.73	0.47	4.24	--	1.20	4.98	--
9:45:00	-0.84	0.39	6.41	N/A	-0.74	0.55	4.55	--	1.29	5.29	--
10:00:00	-0.72	0.74	5.15	N/A	-0.74	0.56	5.11	--	1.30	5.85	--
10:15:00	-0.6	1.27	4.88	N/A	-0.71	0.70	5.69	--	1.41	6.40	--
10:30:00	-0.66	1.08	2.38	N/A	-0.71	0.78	5.81	--	1.48	6.51	--
10:45:00	-0.72	1	2.59	N/A	-0.71	0.90	4.28	--	1.60	4.99	--
11:00:00	-0.82	0.51	4.57	N/A	-0.70	0.92	3.91	--	1.62	4.62	--
11:15:00	-0.78	0.66	6.34	N/A	-0.72	0.90	4.15	--	1.62	4.87	--
11:30:00	-0.86	0.53	5.73	N/A	-0.77	0.76	4.32	--	1.52	5.09	--
11:45:00	-0.8	0.59	6.47	N/A	-0.80	0.66	5.14	--	1.45	5.94	--
12:00:00	-0.67	0.66	6	N/A	-0.79	0.59	5.82	--	1.38	6.61	--
12:15:00	-0.35	0.97	3.71	N/A	-0.69	0.68	5.65	--	1.37	6.34	--
12:30:00	-0.7	1.16	4.25	N/A	-0.68	0.78	5.23	--	1.46	5.91	--
12:45:00	-0.64	1.57	6.96	N/A	-0.63	0.99	5.48	--	1.62	6.11	--
13:00:00	-0.64	1.4	6.2	N/A	-0.60	1.15	5.42	--	1.75	6.02	--
13:15:00	-0.58	1.51	6.33	N/A	-0.58	1.32	5.49	--	1.90	6.07	--
13:30:00	-0.65	1.72	6.52	N/A	-0.64	1.47	6.05	--	2.11	6.69	--
13:45:00	-0.74	1.63	6.72	N/A	-0.65	1.57	6.55	--	2.22	7.20	--
14:00:00	-0.68	1.78	5.47	N/A	-0.66	1.61	6.25	--	2.27	6.91	--
14:15:00	-0.67	1.89	3.77	N/A	-0.66	1.71	5.76	--	2.37	6.43	--
14:30:00	-0.53	2.59	6.38	N/A	-0.65	1.92	5.77	--	2.58	6.43	--
14:45:00	-0.66	2.34	5.87	N/A	-0.66	2.05	5.64	--	2.70	6.30	--
15:00:00	-0.52	1.72	3.28	N/A	-0.61	2.06	4.95	--	2.68	5.57	--
15:15:00	-0.47	1.59	5.76	N/A	-0.57	2.03	5.01	--	2.60	5.58	--
15:30:00	-0.19	1.41	3.64	N/A	-0.47	1.93	4.99	--	2.40	5.46	--
15:45:00	-0.21	1.29	3.5	N/A	-0.41	1.67	4.41	--	2.08	4.82	--
16:00:00	-0.36	1.12	5.42	N/A	-0.35	1.43	4.32	--	1.78	4.67	--
16:15:00	-0.32	0.99	6.05	N/A	-0.31	1.28	4.87	--	1.59	5.18	--
16:30:00	-0.22	1.04	5.34	N/A	-0.26	1.17	4.79	--	1.43	5.05	--
16:45:00	-0.11	0.84	5.1	N/A	-0.24	1.06	5.08	--	1.30	5.33	--
17:00:00	-0.26	0.92	4.9	N/A	-0.25	0.98	5.36	--	1.24	5.62	--
17:15:00	-0.28	1.08	5.24	N/A	-0.24	0.97	5.33	--	1.21	5.56	--
17:30:00	0.11	0.71	4.93	N/A	-0.15	0.92	5.10	--	1.07	5.25	--
17:45:00	0.16	0.76	2.83	N/A	-0.08	0.86	4.60	--	0.94	4.68	--
18:00:00	0.11	0.74	5.28	N/A	-0.03	0.84	4.64	--	0.87	4.67	--