

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

PERIOD: September 26 – September 30, 2022

Date of Report: October 4, 2022

Report Contents

- Scope of Monitoring
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Prepared by

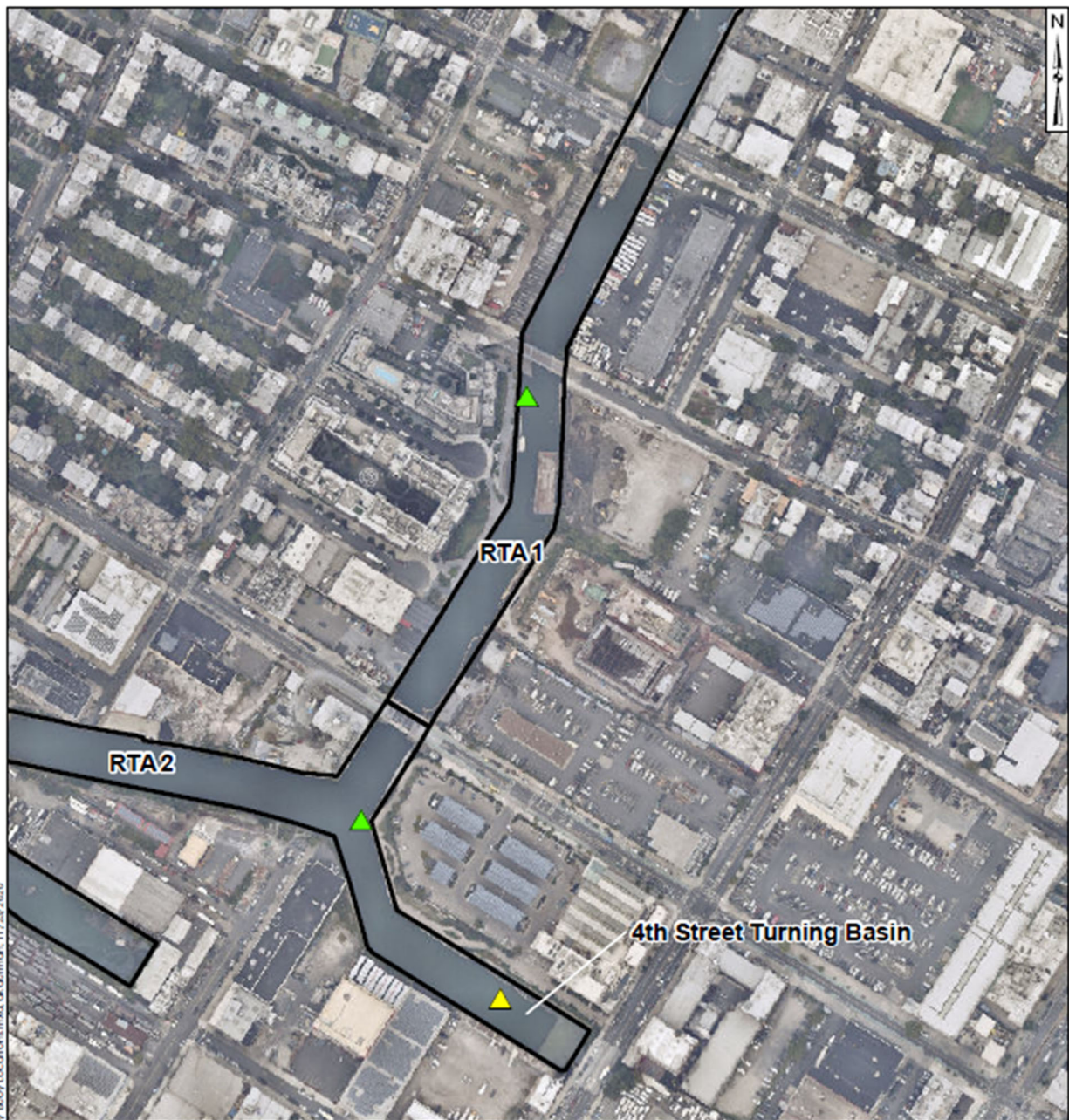
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Project Number JR0289A




1. SCOPE OF MONITORING

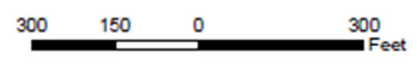
The following report summarizes water quality monitoring data collected during the week of September 26, 2022. In accordance with the Water Quality Monitoring Plan for In-waterway Construction Activities (WQMP) one turbidity buoy was deployed to monitor turbidity at the start of dredging between 3rd Street Bridge and the head of the canal. 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 and is currently undergoing maintenance. A second turbidity buoy is usually deployed just south of the Union Street Bridge and referred to as the Union Street Sentinel Buoy, however this buoy was moved at 12:00 PM on September 12, 2022 to replace the 3rd Street Sentinel Buoy, which was removed from the canal for maintenance. This buoy was moved again on September 22, 2022 to a location south of Carroll St Bridge to better monitor dredging activities north of Carroll Street Bridge. This buoy will hereby be 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. On July 14, 2022, the Union Street Buoy was removed from the canal for servicing before being re-deployed on July 21, 2022. On January 22, 2021, prior to dredging north of the Union Street Bridge, a fourth turbidity buoy was deployed just south of the Union Street Bridge and was referred to as the Union Street Sentinel Buoy. This fourth turbidity buoy was removed prior to the start of pipe pile installation. On Wednesday, September 22, 2021, the Carroll Street Sentinel Buoy was relocated to the west side of the canal where Degraw Street intersects the canal to monitor cofferdam removal activities conducted in the vicinity of the Flushing Tunnel. This buoy was renamed the Degraw Street Sentinel Buoy during cofferdam removal activities. On October 14, 2021, the Degraw Street Sentinel Buoy was removed from the canal for servicing. On October 20, 2021, the Degraw Street Sentinel Buoy was re-deployed to its position south of the Carroll Street Bridge and was renamed to the Carroll Street Sentinel Buoy. On November 15, 2021, the Carroll Street Sentinel Buoy was moved to the Union Street Bridge and renamed the Union Street Sentinel Buoy. On December 3, 2021, the Union Street Buoy was removed from the canal for servicing and re-deployed at 3rd Street Bridge in preparation for the resumption of ISS operations. On December 8, 2021, a third sentinel buoy was deployed just south of the Carroll Street Bridge. On April 21, 2022, the buoy deployed at the Carroll Street Bridge was relocated to the Union Street Bridge. 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. No handheld measurements were collected during this reporting period. Visual observations of turbidity and sheen are summarized in Section 4.



\\Reservoir\Gowanus\RTA\03_CED\mid\Canal\W\k\Turbidity_BuoyLocations.mxd of 11/23/2020

Legend

-  Ambient Buoy
-  Sentinel Buoy
-  RTA Boundary



Turbidity Buoy Locations

Gowanus Canal, Brooklyn, NY

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Kennesaw, GA

September 2022

Figure

1

2. REPORT OF EXCEEDANCES

Exceedances of the trigger criterion occurred at the Carroll Street Sentinel Buoy on Monday, September 26 from 7:00 AM to 7:30 AM. No exceedances of the action level criteria were met during the reporting period. Further information is provided in Section 2.1.

- **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 Monday, September 26 from 7:00 AM to 7:30 AM the numerical rolling average turbidity was more than 20 NTU greater than the rolling average turbidity at the Ambient Buoy as a result of increased turbidity from an intense and sustained rain event. The turbidity increase was not attributed to construction activities and therefore did not constitute an exceedance of the numerical trigger criterion.

3. TURBIDITY BUOY DATA

The following section provides turbidity data for the sentinel and ambient turbidity buoys from 7 AM to 6 PM from September 26 – September 30, 2022. No exceedances of the numerical trigger or action level criteria were met during the reporting period. Maintenance activities on the 3rd Street Sentinel Buoy remain ongoing as of Friday, September 30, 2022.

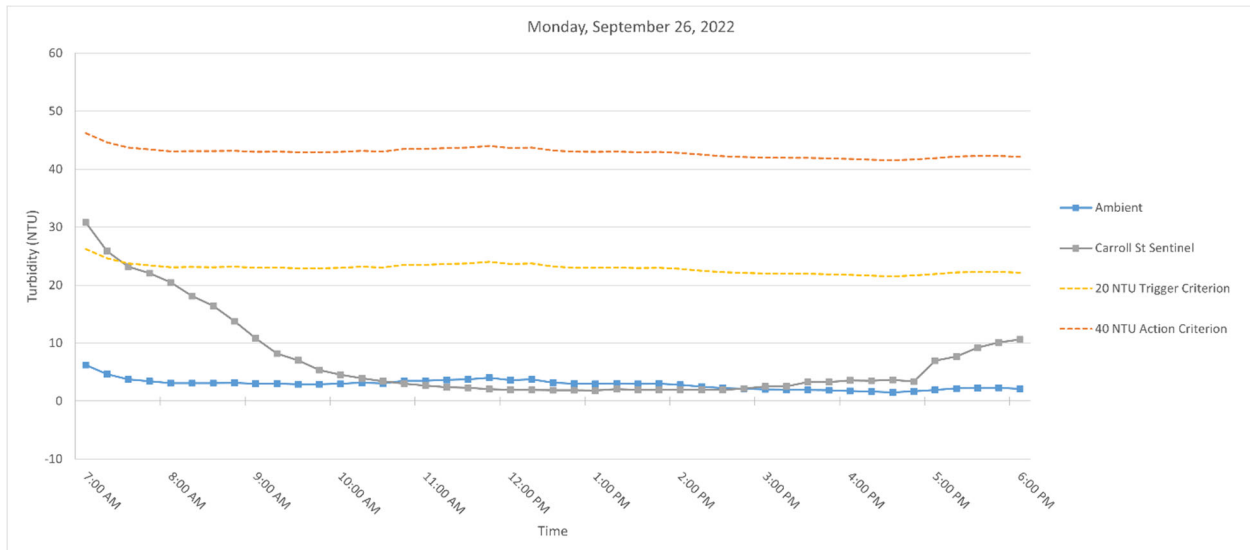
Table 1 below provides a summary of the turbidity data for the reporting period.

Date	Average Rolling Average Difference (NTU)		Maximum Rolling Average Difference (NTU)	
	3rd St - Ambient	Carroll St - Ambient	3rd St - Ambient	Carroll St - Ambient
Monday, September 26, 2022	N/A	4.22	N/A	24.59
Tuesday, September 27, 2022	N/A	-1.12	N/A	0.36
Wednesday, September 28, 2022	N/A	-1.38	N/A	1.36
Thursday, September 29, 2022	N/A	0.41	N/A	3.34
Friday, September 30, 2022	N/A	0.51	N/A	2.67

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.

3.1 Monday, September 26, 2022

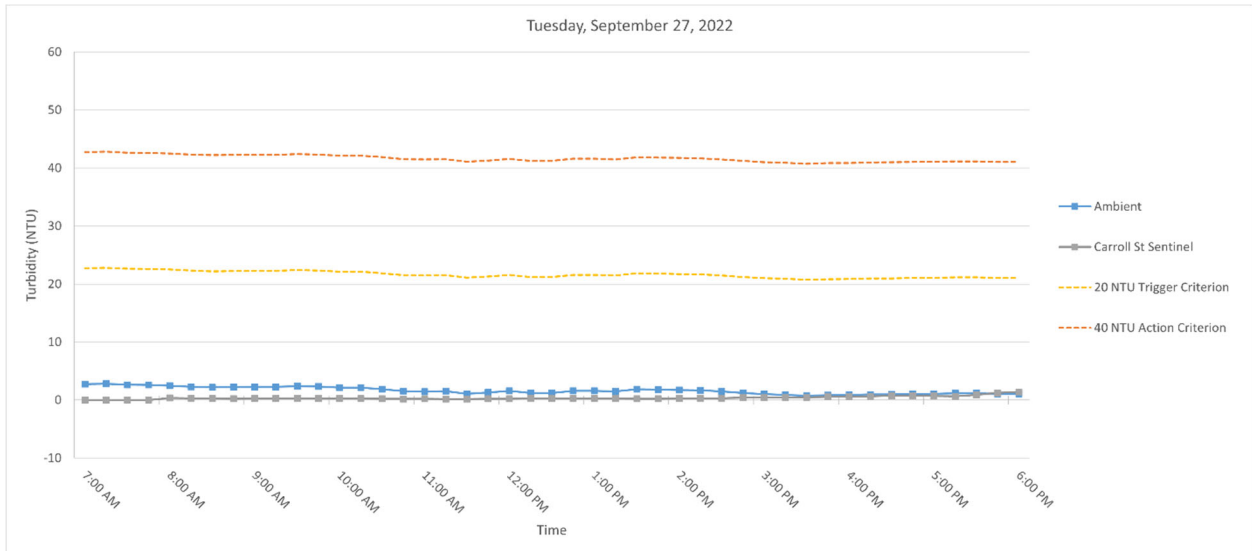
Figure 3. Hourly rolling average turbidity readings on Monday, September 26, 2022, from 7 AM to 6 PM.



Note: No outlier turbidity readings above 20 NTU were detected. The 3rd Street Sentinel Buoy was out of service. From 7:00 AM to 7:30 AM the numerical rolling average turbidity was more than 20 NTU greater than the rolling average turbidity at the Ambient Buoy as a result of increased turbidity from an intense and sustained rain event

3.1 Tuesday, September 27, 2022

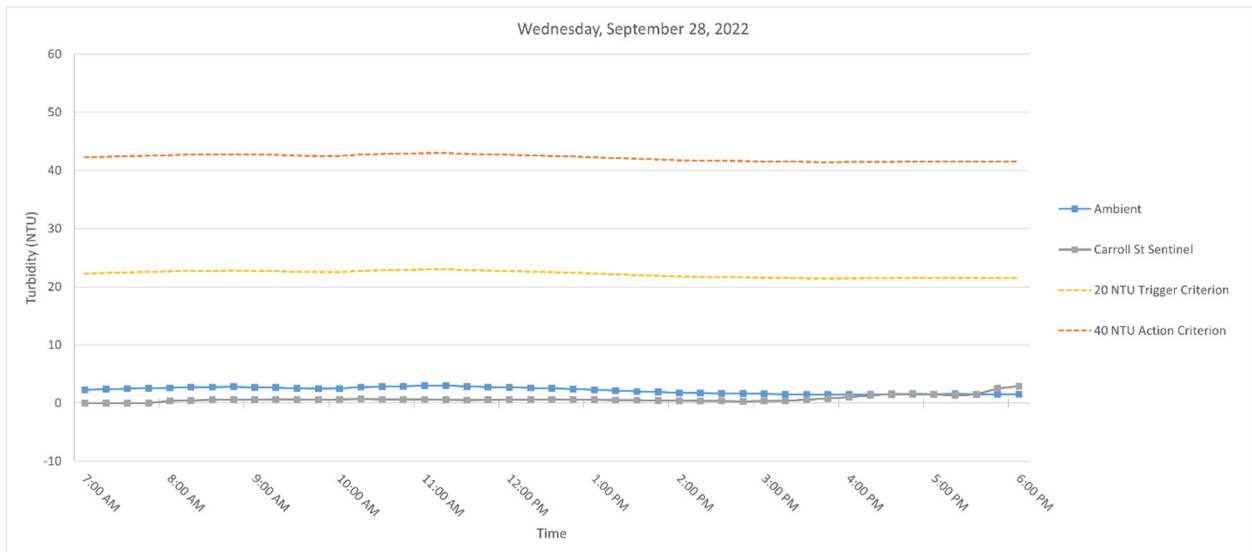
Figure 3. Hourly rolling average turbidity readings on Tuesday, September 27, 2022, from 7 AM to 6 PM.



Note: No outlier turbidity readings above 20 NTU were detected. The 3rd Street Sentinel Buoy was out of service.

3.2 Wednesday, September 28, 2022

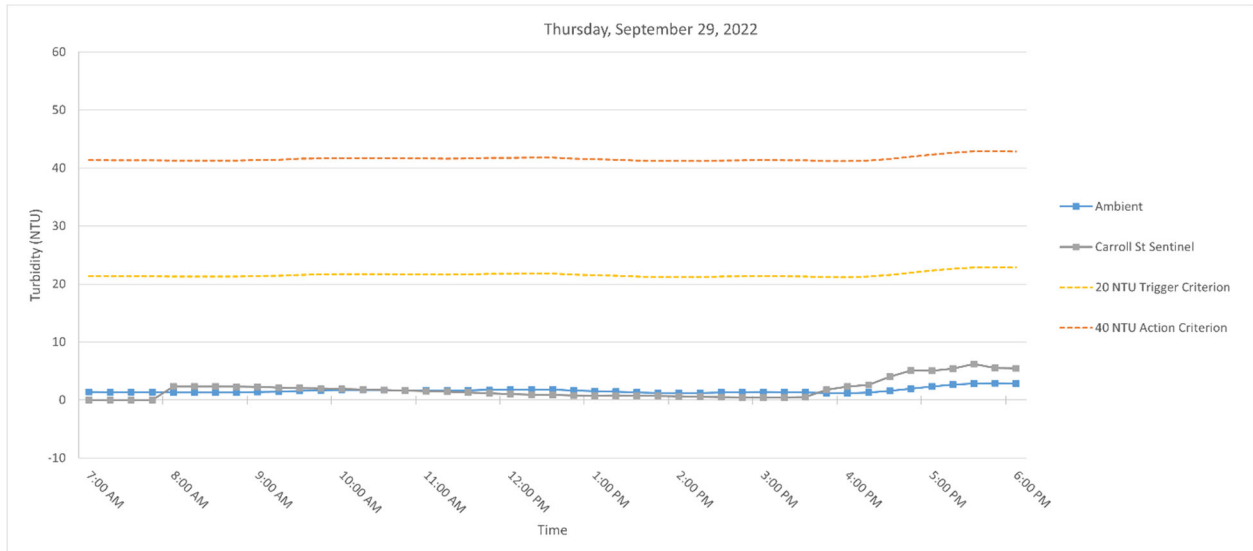
Figure 4. Hourly rolling average turbidity readings on Wednesday, September 28, 2022, from 7 AM to 6 PM.



Note: No outlier turbidity readings above 20 NTU were detected. The 3rd Street Sentinel Buoy was out of service.

3.3 Thursday, September 29, 2022

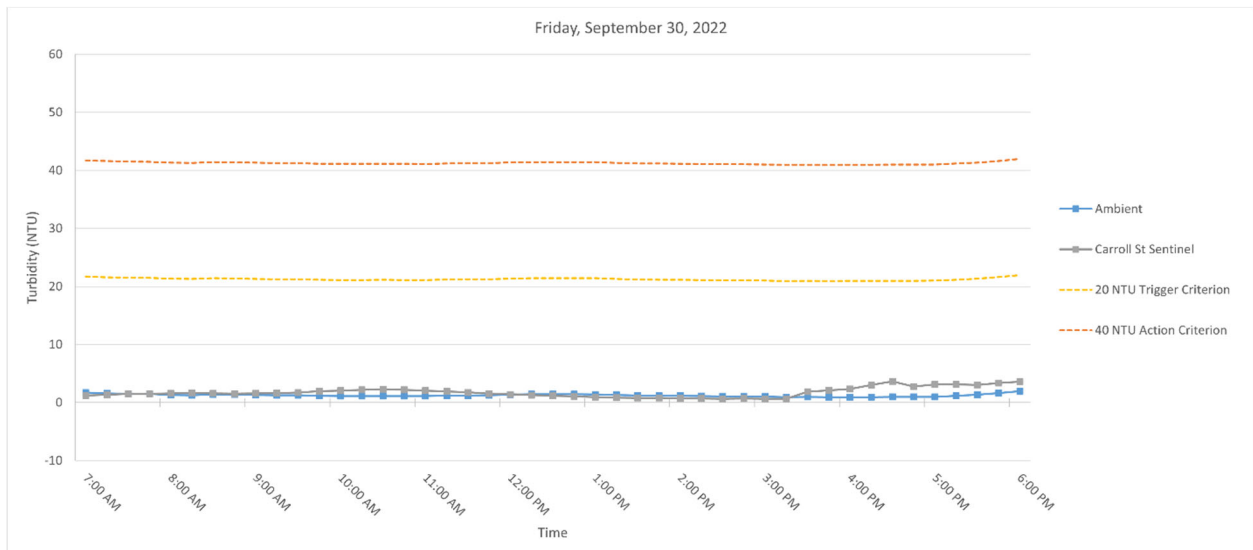
Figure 5. Hourly rolling average turbidity readings on Thursday, September 29, 2022, from 7 AM to 6 PM.



Note: No outlier turbidity readings above 20 NTU were detected. The 3rd Street Sentinel Buoy was out of service.

3.4 Friday, September 30, 2022

Figure 6. Hourly rolling average turbidity readings on Friday, September 30, 2022, from 7 AM to 6 PM.



Note: No outlier turbidity readings above 20 NTU were detected. The 3rd Street Sentinel Buoy was out of service.

SUMMARY OF VISUAL OBSERVATIONS

Sheen was observed above background conditions during work operations. These sheens were contained within RTA1 by the air curtain deployed south of the 3rd Street Bridge. Absorbent booms were also deployed south of dredging activities to contain sheens north of the Carroll Street Bridge.

APPENDIX A
Turbidity Data Tables

Monday, September 26, 2022

Time	Turbidity (NTU)			Rolling Average Turbidity (NTU)			Difference (NTU)	
	Ambient	3rd Street	Carroll Street	Ambient	3rd Street	Carroll Street	3rd St - Ambient	Carroll St - Ambient
7:00:00	2.74	--	22.13	6.22	--	30.81	--	24.59
7:15:00	2.6	--	20.45	4.64	--	25.85	--	21.21
7:30:00	3.69	--	20.73	3.74	--	23.17	--	19.43
7:45:00	3.59	--	20.11	3.41	--	22.03	--	18.63
8:00:00	2.77	--	18.77	3.08	--	20.44	--	17.36
8:15:00	2.89	--	10.64	3.11	--	18.14	--	15.03
8:30:00	2.54	--	12.02	3.10	--	16.45	--	13.36
8:45:00	4	--	7.23	3.16	--	13.75	--	10.60
9:00:00	2.78	--	5.4	3.00	--	10.81	--	7.82
9:15:00	2.86	--	5.76	3.01	--	8.21	--	5.20
9:30:00	2.4	--	4.64	2.92	--	7.01	--	4.09
9:45:00	2.54	--	3.59	2.92	--	5.32	--	2.41
10:00:00	4.29	--	3.37	2.97	--	4.55	--	1.58
10:15:00	3.73	--	2.29	3.16	--	3.93	--	0.77
10:30:00	2.25	--	3.24	3.04	--	3.43	--	0.38
10:45:00	4.75	--	2.41	3.51	--	2.98	--	-0.53
11:00:00	2.46	--	2.07	3.50	--	2.68	--	-0.82
11:15:00	4.98	--	1.96	3.63	--	2.39	--	-1.24
11:30:00	4.23	--	1.81	3.73	--	2.30	--	-1.44
11:45:00	3.62	--	2.1	4.01	--	2.07	--	-1.94
12:00:00	2.81	--	1.57	3.62	--	1.90	--	-1.72
12:15:00	3.11	--	2.22	3.75	--	1.93	--	-1.82
12:30:00	2.26	--	1.74	3.21	--	1.89	--	-1.32
12:45:00	3.22	--	1.85	3.00	--	1.90	--	-1.11
13:00:00	3.47	--	1.76	2.97	--	1.83	--	-1.15
13:15:00	3.1	--	2.68	3.03	--	2.05	--	-0.98
13:30:00	2.71	--	1.61	2.95	--	1.93	--	-1.02
13:45:00	2.42	--	1.77	2.98	--	1.93	--	-1.05
14:00:00	2.25	--	2.02	2.79	--	1.97	--	-0.82
14:15:00	1.97	--	1.79	2.49	--	1.97	--	-0.52
14:30:00	1.87	--	2.52	2.24	--	1.94	--	-0.30
14:45:00	1.97	--	2.74	2.10	--	2.17	--	0.07
15:00:00	1.96	--	3.6	2.00	--	2.53	--	0.53
15:15:00	1.99	--	2.07	1.95	--	2.54	--	0.59
15:30:00	1.89	--	5.36	1.94	--	3.26	--	1.32
15:45:00	1.57	--	2.57	1.88	--	3.27	--	1.39
16:00:00	1.36	--	4.17	1.75	--	3.55	--	1.80
16:15:00	1.33	--	3.4	1.63	--	3.51	--	1.89
16:30:00	1.42	--	2.75	1.51	--	3.65	--	2.14
16:45:00	2.72	--	4.02	1.68	--	3.38	--	1.70
17:00:00	2.68	--	20.47	1.90	--	6.96	--	5.06
17:15:00	2.74	--	--	2.18	--	7.66	--	5.48
17:30:00	1.8	--	9.62	2.27	--	9.22	--	6.94
17:45:00	1.55	--	6.39	2.30	--	10.13	--	7.83
18:00:00	1.87	--	5.95	2.13	--	10.61	--	8.48

Tuesday, September 27, 2022

Time	Turbidity (NTU)			Rolling Average Turbidity (NTU)			Difference (NTU)	
	Ambient	3rd Street	Carroll Street	Ambient	3rd Street	Carroll Street	3rd St - Ambient	Carroll St - Ambient
7:00:00	2.84	--	0.55	2.73	--	0.27	--	-2.46
7:15:00	2.94	--	0.43	2.81	--	0.32	--	-2.49
7:30:00	2.21	--	0.31	2.64	--	0.38	--	-2.26
7:45:00	2.24	--	0.2	2.62	--	0.34	--	-2.28
8:00:00	2.22	--	0.31	2.49	--	0.36	--	-2.13
8:15:00	1.9	--	0.25	2.30	--	0.30	--	-2.00
8:30:00	2.44	--	0.24	2.20	--	0.26	--	-1.94
8:45:00	2.45	--	0.18	2.25	--	0.24	--	-2.01
9:00:00	2.3	--	0.38	2.26	--	0.27	--	-1.99
9:15:00	2.22	--	0.36	2.26	--	0.28	--	-1.98
9:30:00	2.57	--	0.36	2.40	--	0.30	--	-2.09
9:45:00	2.13	--	0.11	2.33	--	0.28	--	-2.06
10:00:00	1.47	--	0.22	2.14	--	0.29	--	-1.85
10:15:00	2.23	--	0.25	2.12	--	0.26	--	-1.86
10:30:00	0.97	--	0.23	1.87	--	0.23	--	-1.64
10:45:00	0.78	--	0.2	1.52	--	0.20	--	-1.31
11:00:00	1.84	--	0.12	1.46	--	0.20	--	-1.25
11:15:00	1.86	--	--	1.54	--	0.20	--	-1.34
11:30:00	0	--	0.21	1.09	--	0.19	--	-0.90
11:45:00	1.97	--	0.33	1.29	--	0.21	--	-1.08
12:00:00	2.26	--	0.31	1.59	--	0.24	--	-1.34
12:15:00	0	--	0.35	1.22	--	0.30	--	-0.92
12:30:00	1.85	--	0.2	1.22	--	0.28	--	-0.94
12:45:00	1.88	--	0.25	1.59	--	0.29	--	-1.30
13:00:00	1.97	--	0.22	1.59	--	0.27	--	-1.33
13:15:00	1.68	--	0.25	1.48	--	0.25	--	-1.22
13:30:00	1.89	--	0.12	1.85	--	0.21	--	-1.65
13:45:00	1.68	--	0.35	1.82	--	0.24	--	-1.58
14:00:00	1.46	--	0.45	1.74	--	0.28	--	-1.46
14:15:00	1.6	--	0.44	1.66	--	0.32	--	-1.34
14:30:00	0.73	--	0.23	1.47	--	0.32	--	-1.15
14:45:00	0.59	--	0.54	1.21	--	0.40	--	-0.81
15:00:00	0.69	--	0.59	1.01	--	0.45	--	-0.56
15:15:00	0.87	--	0.46	0.90	--	0.45	--	-0.44
15:30:00	0.71	--	0.45	0.72	--	0.45	--	-0.26
15:45:00	1.35	--	0.65	0.84	--	0.54	--	-0.30
16:00:00	0.74	--	0.77	0.87	--	0.58	--	-0.29
16:15:00	1.08	--	0.94	0.95	--	0.65	--	-0.30
16:30:00	1.02	--	0.85	0.98	--	0.73	--	-0.25
16:45:00	1.1	--	0.5	1.06	--	0.74	--	-0.32
17:00:00	1.45	--	0.34	1.08	--	0.68	--	-0.40
17:15:00	1.07	--	0.7	1.14	--	0.67	--	-0.48
17:30:00	1.08	--	1.92	1.14	--	0.86	--	-0.28
17:45:00	0.63	--	2.7	1.07	--	1.23	--	0.17
18:00:00	--	--	--	1.06	--	1.42	--	0.36

Wednesday, September 28, 2022

Time	Turbidity (NTU)			Rolling Average Turbidity (NTU)			Difference (NTU)	
	Ambient	3rd Street	Carroll Street	Ambient	3rd Street	Carroll Street	3rd St - Ambient	Carroll St - Ambient
7:00:00	2.53	--	0.24	2.27	--	0.41	--	-1.86
7:15:00	2.72	--	0.21	2.37	--	0.37	--	-2.00
7:30:00	2.36	--	0.38	2.46	--	0.37	--	-2.09
7:45:00	2.89	--	0.49	2.56	--	0.35	--	-2.21
8:00:00	2.63	--	0.5	2.63	--	0.36	--	-2.26
8:15:00	3.09	--	0.7	2.74	--	0.46	--	-2.28
8:30:00	2.77	--	0.75	2.75	--	0.56	--	-2.18
8:45:00	2.51	--	0.53	2.78	--	0.59	--	-2.18
9:00:00	2.57	--	0.57	2.71	--	0.61	--	-2.10
9:15:00	2.44	--	0.7	2.68	--	0.65	--	-2.03
9:30:00	2.41	--	0.57	2.54	--	0.62	--	-1.92
9:45:00	2.5	--	0.45	2.49	--	0.56	--	-1.92
10:00:00	2.56	--	1	2.50	--	0.66	--	-1.84
10:15:00	3.78	--	0.66	2.74	--	0.68	--	-2.06
10:30:00	2.83	--	0.55	2.82	--	0.65	--	-2.17
10:45:00	2.84	--	0.6	2.90	--	0.65	--	-2.25
11:00:00	2.89	--	0.47	2.98	--	0.66	--	-2.32
11:15:00	2.78	--	0.47	3.02	--	0.55	--	-2.47
11:30:00	2.78	--	0.53	2.82	--	0.52	--	-2.30
11:45:00	2.57	--	0.64	2.77	--	0.54	--	-2.23
12:00:00	2.46	--	0.55	2.70	--	0.53	--	-2.16
12:15:00	2.48	--	0.52	2.61	--	0.54	--	-2.07
12:30:00	2.27	--	0.9	2.51	--	0.63	--	-1.88
12:45:00	2.31	--	0.44	2.42	--	0.61	--	-1.81
13:00:00	1.82	--	0.41	2.27	--	0.56	--	-1.70
13:15:00	1.8	--	0.35	2.14	--	0.52	--	-1.61
13:30:00	1.85	--	0.46	2.01	--	0.51	--	-1.50
13:45:00	1.71	--	0.3	1.90	--	0.39	--	-1.51
14:00:00	1.55	--	0.43	1.75	--	0.39	--	-1.36
14:15:00	1.7	--	0.22	1.72	--	0.35	--	-1.37
14:30:00	1.54	--	0.32	1.67	--	0.35	--	-1.32
14:45:00	1.55	--	0.43	1.61	--	0.34	--	-1.27
15:00:00	1.51	--	0.4	1.57	--	0.36	--	-1.21
15:15:00	1.46	--	0.38	1.55	--	0.35	--	-1.20
15:30:00	1.19	--	1.4	1.45	--	0.59	--	-0.86
15:45:00	1.51	--	1.27	1.44	--	0.78	--	-0.67
16:00:00	1.59	--	1.62	1.45	--	1.01	--	-0.44
16:15:00	1.55	--	1.75	1.46	--	1.28	--	-0.18
16:30:00	1.62	--	1.88	1.49	--	1.58	--	0.09
16:45:00	1.61	--	1.18	1.58	--	1.54	--	-0.04
17:00:00	1.37	--	1.04	1.55	--	1.49	--	-0.05
17:15:00	1.74	--	0.75	1.58	--	1.32	--	-0.26
17:30:00	1.29	--	2.5	1.53	--	1.47	--	-0.06
17:45:00	1.6	--	7.05	1.52	--	2.50	--	0.98
18:00:00	1.63	--	3.11	1.53	--	2.89	--	1.36

Thursday, September 29, 2022

Time	Turbidity (NTU)			Rolling Average Turbidity (NTU)			Difference (NTU)	
	Ambient	3rd Street	Carroll Street	Ambient	3rd Street	Carroll Street	3rd St - Ambient	Carroll St - Ambient
7:00:00	1.29	--	2.26	1.38	--	2.31	--	0.94
7:15:00	1.22	--	2.21	1.34	--	2.26	--	0.92
7:30:00	1.33	--	2.21	1.33	--	2.31	--	0.98
7:45:00	1.36	--	2.22	1.33	--	2.27	--	0.94
8:00:00	1.25	--	2.68	1.29	--	2.32	--	1.03
8:15:00	1.29	--	2.38	1.29	--	2.34	--	1.05
8:30:00	1.2	--	2.17	1.29	--	2.33	--	1.05
8:45:00	1.36	--	2.06	1.29	--	2.30	--	1.01
9:00:00	1.75	--	2.06	1.37	--	2.27	--	0.90
9:15:00	1.58	--	2.09	1.44	--	2.15	--	0.72
9:30:00	2.05	--	1.79	1.59	--	2.03	--	0.45
9:45:00	1.59	--	1.94	1.67	--	1.99	--	0.32
10:00:00	1.6	--	1.61	1.71	--	1.90	--	0.18
10:15:00	1.8	--	1.64	1.72	--	1.81	--	0.09
10:30:00	1.53	--	1.53	1.71	--	1.70	--	-0.01
10:45:00	1.69	--	1.47	1.64	--	1.64	--	0.00
11:00:00	1.66	--	1.39	1.66	--	1.53	--	-0.13
11:15:00	1.43	--	1.05	1.62	--	1.42	--	-0.21
11:30:00	2.05	--	0.95	1.67	--	1.28	--	-0.39
11:45:00	1.87	--	1.02	1.74	--	1.18	--	-0.56
12:00:00	1.75	--	0.65	1.75	--	1.01	--	-0.74
12:15:00	1.88	--	0.85	1.80	--	0.90	--	-0.89
12:30:00	1.4	--	0.85	1.79	--	0.86	--	-0.93
12:45:00	1.22	--	0.57	1.62	--	0.79	--	-0.84
13:00:00	1.41	--	0.81	1.53	--	0.75	--	-0.79
13:15:00	1.2	--	0.7	1.42	--	0.76	--	-0.67
13:30:00	1.19	--	0.78	1.28	--	0.74	--	-0.54
13:45:00	1.06	--	0.58	1.22	--	0.69	--	-0.53
14:00:00	1.21	--	0.31	1.21	--	0.64	--	-0.58
14:15:00	1.33	--	0.43	1.20	--	0.56	--	-0.64
14:30:00	1.58	--	0.47	1.27	--	0.51	--	-0.76
14:45:00	1.41	--	0.43	1.32	--	0.44	--	-0.87
15:00:00	1.36	--	0.48	1.38	--	0.42	--	-0.95
15:15:00	1.05	--	0.42	1.35	--	0.45	--	-0.90
15:30:00	1.14	--	0.71	1.31	--	0.50	--	-0.81
15:45:00	0.93	--	6.81	1.18	--	1.77	--	0.59
16:00:00	1.37	--	3.11	1.17	--	2.31	--	1.14
16:15:00	1.96	--	1.91	1.29	--	2.59	--	1.30
16:30:00	2.51	--	7.47	1.58	--	4.00	--	2.42
16:45:00	2.98	--	6.22	1.95	--	5.10	--	3.15
17:00:00	2.72	--	6.52	2.31	--	5.05	--	2.74
17:15:00	3.1	--	4.9	2.65	--	5.40	--	2.75
17:30:00	2.97	--	5.89	2.86	--	6.20	--	3.34
17:45:00	2.74	--	4.05	2.90	--	5.52	--	2.61
18:00:00	2.59	--	5.99	2.82	--	5.47	--	2.65

Friday, September 30, 2022

Time	Turbidity (NTU)			Rolling Average Turbidity (NTU)			Difference (NTU)	
	Ambient	3rd Street	Carroll Street	Ambient	3rd Street	Carroll Street	3rd St - Ambient	Carroll St - Ambient
7:00:00	1.57	--	1.36	1.71	--	1.20	--	-0.51
7:15:00	1.01	--	1.69	1.59	--	1.37	--	-0.22
7:30:00	1.18	--	1.84	1.50	--	1.49	--	-0.02
7:45:00	1.55	--	1.37	1.49	--	1.48	--	-0.01
8:00:00	1.27	--	1.67	1.32	--	1.59	--	0.27
8:15:00	1.35	--	1.71	1.27	--	1.66	--	0.38
8:30:00	1.72	--	1.4	1.41	--	1.60	--	0.18
8:45:00	1.08	--	1.46	1.39	--	1.52	--	0.13
9:00:00	1.14	--	1.75	1.31	--	1.60	--	0.29
9:15:00	0.99	--	1.81	1.26	--	1.63	--	0.37
9:30:00	1.33	--	2.22	1.25	--	1.73	--	0.48
9:45:00	1.18	--	2.47	1.14	--	1.94	--	0.80
10:00:00	0.99	--	2.04	1.13	--	2.06	--	0.93
10:15:00	1.12	--	2.36	1.12	--	2.18	--	1.06
10:30:00	1.06	--	2.26	1.14	--	2.27	--	1.13
10:45:00	1.27	--	1.84	1.12	--	2.19	--	1.07
11:00:00	1.15	--	1.69	1.12	--	2.04	--	0.92
11:15:00	1.33	--	1.51	1.19	--	1.93	--	0.75
11:30:00	1.32	--	1.43	1.23	--	1.75	--	0.52
11:45:00	1.16	--	1.28	1.25	--	1.55	--	0.30
12:00:00	1.84	--	1.19	1.36	--	1.42	--	0.06
12:15:00	1.53	--	0.98	1.44	--	1.28	--	-0.16
12:30:00	1.32	--	0.86	1.43	--	1.15	--	-0.29
12:45:00	1.26	--	1.01	1.42	--	1.06	--	-0.36
13:00:00	1.1	--	0.64	1.41	--	0.94	--	-0.47
13:15:00	1.24	--	0.67	1.29	--	0.83	--	-0.46
13:30:00	1.11	--	0.73	1.21	--	0.78	--	-0.42
13:45:00	1.16	--	0.8	1.17	--	0.77	--	-0.40
14:00:00	1.12	--	0.66	1.15	--	0.70	--	-0.45
14:15:00	0.94	--	0.54	1.11	--	0.68	--	-0.43
14:30:00	1.05	--	0.55	1.08	--	0.66	--	-0.42
14:45:00	--	--	0.82	1.07	--	0.67	--	-0.39
15:00:00	0.96	--	0.67	1.02	--	0.65	--	-0.37
15:15:00	0.81	--	0.57	0.94	--	0.63	--	-0.31
15:30:00	1	--	6.81	0.96	--	1.88	--	0.93
15:45:00	0.94	--	1.7	0.93	--	2.11	--	1.19
16:00:00	1	--	1.88	0.94	--	2.33	--	1.38
16:15:00	0.96	--	4.09	0.94	--	3.01	--	2.07
16:30:00	1.03	--	3.8	0.99	--	3.66	--	2.67
16:45:00	1	--	2.32	0.99	--	2.76	--	1.77
17:00:00	0.99	--	3.48	1.00	--	3.11	--	2.12
17:15:00	1.86	--	1.88	1.17	--	3.11	--	1.95
17:30:00	1.81	--	3.65	1.34	--	3.03	--	1.69
17:45:00	2.38	--	5.43	1.61	--	3.35	--	1.74
18:00:00	2.8	--	--	1.97	--	3.61	--	1.64